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FINAL
REMEDIAL INVESTIGATION

VOLUME II OF II

RAYMARK - OU6 – ADDITIONAL PROPERTIES
STRATFORD, CONNECTICUT

Note: This Report includes revisions to EPA's previous April 2004 Remedial Investigation Report

RESPONSE ACTION CONTRACT (RAC), REGION I

For
U.S. Environmental Protection Agency

By
Tetra Tech NUS, Inc.

EPA Contract No. 68-W6-0045
EPA Work Assignment No. 112-RICO-01H3
TtNUS Project No. N4106

June 2005

TETRA TECH NUS, INC.

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REMEDIAL INVESTIGATION

VOLUME II OF II

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NOTE: THIS REPORT INCLUDES REVISIONS TO EPA'S
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Heather M. Ford
Project Manager

for Arnold Astrofsky
George D. Gardner, P.E.
Program Manager

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APPENDIX A

BORING LOGS

LOCKWOOD AVENUE PROPERTY

BORING LOG FOR: RAYMARK – OU3- FERRY CREEK
PROJECT NO.: N7491-0320
LOGGED BY: KAYLEEN JALKUT
TRANSCRIBED BY: FMD
DRILLED BY (Company/Driller): ATL / Mike Hawkins
GRD. SURFACE 8.0 Ft.
ELEVATION FROM: Est. from topo. map

BORING NO.: B2-SB01
START DATE: 8-4-97
COMPLETION DATE: 8-4-97
MON. WELL NO.: NA
CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	1/12	15	OU3-B2-SB1-0002			Brown Black	SILT -mostly silt, trace fine sand, large stems (organic), pot. asbestos tiles/boards, roots	ML	Damp, pot. asbestos gray fiber boards/pads (fill)	0	2.4
2'	1/12	24	1200 S-1								
	1/12	16	OU3-B2-SB1-0204			Brown Black	Similar to above w/more twigs, roots, pot. asbestos pads	ML	Damp, pot. asb. (fill)	0	3.1
4'	1/12	24	1210 S-2								
	1/12	16	OU3-B2-SB1-0406			Brown	Similar to above w/pot. asbestos pad, organics, fewer twigs, more roots	ML	Damp, pot. asb. - finer org. veg tissue, sea shells	0	3.4
6'	1/12	24	1220 S-3								
	1	24	OU3-B2-SB1-0608			Black	S-4A SILT w/org. fibers, trace fine sand, pot. asbestos boards	ML	Damp fill	37.4	10
8'	24	24	1225 S-4			Brown	S-4B PEAT-fibrous org. tissue, roots	PT	Saturated-water squeezed out of peat soil holding H_2O	157	13.6
	WOH	23	OU3-B2-SB1-0810			Brown	SILT/PEAT - mostly silt w/peat like fibrous tissue, roots, stems and pot asb. fiber board (gray)	ML/PT	Damp holding onto H_2O	16.0	8.7
10'	WOH	24	1230 S-5								
	WOH	24	OU3-B2-SB1-1012			Brown	SILT - mostly silt, trace fine sand, pot. asb. pads, roots, twigs fibers (plant)	ML	Damp, pot. asbestos, soft	56.2	30.3
12'	WOH	24	1235 S-6								
	WOH	24	OU3-B2-SB1-1214			brown	SILT - similar to above - no visible asbestos, fewer org. fibers than above, trace fine sand	ML	Damp	122	62
14'	WOH	24	1245 S-7								
	WOH	24	OU3-B2-SB1-1416			brown	SILT - similar to above, few org. fibers, tr. fine sand	ML	Damp - no visual asbestos soft	59.1	26.2
16'	1/12	24	1250 S-8				EOB @ 16"				

TYPE OF DRILLING RIG: CME-850 ATV TRACK MOUNT
METHOD OF ADVANCING BORING: 4.25' I D HSA, 8" O.D. HSA
METHOD OF SOIL SAMPLING: 3" BARRELS DROPPED W/300 LB HYDRAULIC HAMMER IN 18IN
METHOD OF ROCK CORING:
GROUNDWATER LEVELS: NO WATER IN AUGERS @ 1305, BACKFILL W/BENT. SLURRY
OTHER OBSERVATIONS: LEVEL C-S-2 TO S-8 DRILLING 0-16' BACKFILL POT. ASB. IN THE MORE SILTY LAYERS VERSUS THE PEAT LIKE LAYERS

Tetra Tech NUS, Inc.

BORING NO.: B2-SB01

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB02
PROJECT NO.:	N7491-0320		START DATE: 8/1/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 8/1/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE	10.5 ft.	ELEVATION FROM: Est. from. topo. map	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	1		OU3-B2-SB02-0002			brown	Silty SAND-mostly fine sand, some silt, trace. twigs,	SM	Dry, Crumbly, Loose	0	0.3
	1	18 / 24					roots, plant fibers				
	1										
2'	1		1115 S-1								
	2		OU3-B2-SB02-0204			brown	silty SAND, fine sand, silt, trace organic fibers, trace asphalt	SM	Oxidized-like staining	0	0.4
	4	12 / 24					shingles, pot. Asbestos fibers (?)		Fill, Dry		
	5										
4'	5		1120 S-2								
	2		OU3-B2-SB02-0406			brown-black	Silty SAND, fine sand, silt, asphalt shingles, black	SM	Dry, Upgrade 1130-	0	0
	1	19 / 24					crumbly waste material, pot asbestos tiles twigs,		Fill		
	1						Roots				
6'	2		1130 S-3								
	2		OU3-B2-SB02-0608			brown-black	Silty SAND-similar to above w/pot asbestos tiles, asphalt	SM	Damp	0	0
	3	21 / 24					shingles, vitrified clay pipe, twigs, roots		Fill		
	3										
8'	2		1140 S-4								
	1		OU3-B2-SB02-0810			black	SILT w/tr. fine sand, plastic sheets (flexible) non-flexible	SM	Saturated	0	0
	1	10 / 24					plastic sheets, asphalt shingles, asbestos like hairs, organic		Fill		
	1						hairs, twigs		Jet black		
10'	1		1150 S-5						waste coloration		
	1		OU3-B2-SB02-1012			brown-black	S-6A (O-17") - SILT w/org. fibers, pot-black man-made waste	SM/ OL?	Damp	60	8
	2	24 / 24					material, shingles		Fill		
	4						S-6B (17-24") asphalt shingles w/silt	SM/ FILL		120	10
12'	9		1200 S-6								
	4		OU3-B2-SB02-1214			black	FILL - asphalt-like shingles, tr.-silt pot. cardboard fibers	SM/ FILL	Damp	0	0
	2	8 / 24					in shingles				
	1										
14'	1		1210 S-7								
	1		OU3-B2-SB02-1416			brown-black	S-8A (4in) org SILT w/large fibers (plant) stems, trace	OL/ FILL	Saturated	0	0
	1	24 / 24					Shingles				
	2						S-8B (4-24) - SILT w/tr. fine thin plant fibers tr. fine sand	SM	Saturated	0	0
16'	2		1218 S-8								

TYPE OF DRILLING RIG:	CME 850 ATV TRACK MOUNT
METHOD OF ADVANCING BORING:	4.25' I D HAS, 8 in. O.D. HSA
METHOD OF SOIL SAMPLING:	3 IN BARREL 300 LB HYDRAULIC HAMMER 18 INCH DROP
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	WATER @ 12.10 IN AUGERS AGS
OTHER OBSERVATIONS:	UPGRACE TO C @ 1130 HRS, DRILL CREW DOWNGRADES 1120 FOR BREAK RESUME C @ 1230 - 1300

BORING NO.: B2-SB02

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK			BORING NO.:	B2-SB03
PROJECT NO.:	N7491-0320			START DATE:	7/31/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY:	FMD	COMPLETION DATE:	7/31/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS			MON. WELL NO.:	
GRD. SURFACE	8.5 FT.	ELEVATION FROM:	EST. FROM TOPO. MAP	CHECKED BY:	TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	1 1	17	OU3-B2-SB03-0002			brown	SILT, trace fine sand, roots, grasses, organic fibers	SM	Loose, dry, crumbly	0	*
2'	1 1	24	1500 S-1								
	1 1	16	OU3-B2-SB03-0204			brown	SILT, trace fine sand, some organic fibers, roots, trace Brick-like material, twigs	SM	Dense Dry Fill	0	*
4'	2 2	24	1510 S-2								
	1 2	9	OU3-B2-SB03-0406			black	SILT, trace fine sand, some organics, grass, roots, twigs, Stems, asphalt-like shingles	SM	Sheen on most shingles moist soil fill	16.2	*
6'	2 1	24	1515 S-3								
	2 2	24	OU3-B2-SB03-0608		v-soft	black	S-4A (0-7") SILT, w/organics, white specs-sea shells? Roots	SM or OL?	Moist soil holding water white specs may be from shingles, strong organic odor	125	*
8'	1 2	24	1522 S-4		dense or stiff	Brown-black	S-4B (7-24") PEAT, fibrous laden root system	PT			
	WOH ↓	24	OU3-B2-SB03-0810			brown	PEAT, some silt, fibrous root system Trace white specs (?)	PT	moist soil holding water strong methane like org.	32	*
10'	WOH	24	1530 S-5						odor		
	WOH ↓	24	OU3-B2-SB03-1012		Soft-	black	S-6A (0-15") PEAT and SILT w/organics	OL/ PT	moist soil holding H_2O strong organic odor	220	*
12'	WOH	24	1537 S-6		v-soft	Brown-black	S-6B (15-24") SILT, trace organics trace fine sand	SM	Moist	0	*
	WOH ↓	24	OU3-B2-SB03-1214		soft	brown-black	S-7 = SILT, trace organics, tr. fine sand	SM	holding water moist in Soil	133	*
14'	WOH	24	1545 S-7								
	WOH WOH	24	OU3-B2-SB03-1416			black	S-8 = SILT, trace organics, tr. fine sand	SM	Very soft in one 4-in interval-saturated-rest	42	*
16'	WOH 1	24	1553 S-8						is damp-strong organic Odor		

TYPE OF DRILLING RIG:	CME 850 ATV TRACK MOUNTED			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4.25 in. I.D./8 in. O.D. HSA			
METHOD OF SOIL SAMPLING:	3 IN BARREL 300 LB HYDRAULIC HAMMER 18 INCH DROP			
METHOD OF ROCK CORING:				
GROUNDWATER LEVELS:	WATER @ 12.8 IN AUGERS AGS			
OTHER OBSERVATIONS:	AUGERS TO 14' * BATTERY CRITICALLY LOW	BORING NO.:	B2-SB03	PAGE: 1 OF 1

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB04
PROJECT NO.:	N7491-0320		START DATE: 7/31/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 7/31/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE	7.0 Ft.	ELEVATION FROM: Est. from topo. map	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	1		OU3-B2-SB04-0002			brown	SAND - fine sand, tr. silt, roots, glass pieces, concrete,	SP	Loose, dry, fill		
	2	19					debris, asphalt, twigs, tr. coarse gravel, poorly graded			0	0
	4										
2'	4	24	1258 S-1								
	3		OU3-B2-SB04-0204			brown	- similar to above w/glass shards, chunks wood	SP	Loose dry, fill		
	3	18					red cloth			0	0
	4										
4'	2	24	1309 S-2								
	1		OU3-B2-SB04-0406			Brown-Black	SILT w/organics, tr. fine sand, tr. gravel, peat-like	OL/ PT	Moist/Damp		
	1	21					fibers, roots, twigs			60	0
	1										
6'	↓	24	1315 S-3								
	WOH		OU3-B2-SB04-0608			Brown	S-4A (0-9in) SILT-similar to above, less org., glass	OL	Damp		
	1	24					Chunks		Fill	23	0
	2					Gray-Brown	S-4B (9-24in) SILT w/fine to med. sand and tr. organics	SM	Damp		
8'	1	24	1320 S-4				fibers, roots			0	0
	1		OU3-B2-SB04-0810			Black	S-5A (0-4") SILT w/tr. fine sand, some org fibers, stems,	SM	Damp		
	3	18					twigs, roots			10	0
	3					Gray-brown	S-5B (4-18") SAND, some gravel – mostly f/m sand, coarse	SP	Loose, wet		
10'	3	24	1330 S-5				subrounded gravel, poorly graded tr. coarse sand, tr. silt			26	0
	2		OU3-B2-SB04-1012			brown	SAND- mostly f/m, tr. coarse sand, tr. fine subrounded gravel,	SP	saturated loose no fill		
	2	24					tr. silt, no bedding or structures			0	0
	2										
12'	2	24	1340 S-6								
	1		OU3-B2-SB04-1214			brown	SAND - similar to above, no gravel	SP	saturated loose no fill		
	2	23								0	0
	2										
14'	2	24	1350 S-7								
	1		OU3-B2-SB04-1416			brown	SAND - similar to above w/coarse sand and tr. coarse	SP	saturated loose no fill		
	3	24					gravel at base of spoon			0	0
	3										
16'	4	24	1400 S-8				EOB @ 16' AUGERS TO 14'				

TYPE OF DRILLING RIG:	CME 850 ATV TRACK-MOUNTED.
METHOD OF ADVANCING BORING:	4.25' I.D. HSA 8 IN. O.D. HSA
METHOD OF SOIL SAMPLING:	3 IN BARREL 300 LB HAMMER 18 INCH DROP
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	WATER IN AUGERS @ 6.20 FT BGS
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: B2-SB04

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB05
PROJECT NO.:	N7491-0320		START DATE: 7/30/98
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 7/30/98
DRILLED BY (Company/Driller):	ATL MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE	2.5 FT.	ELEVATION FROM: Est. from topo. map	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC./ SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
0											
	1/12 in	18 / 24	OU3-B2-SB5-0002			brown	S-1 (0-8in) organic SILT w/ fine sand (trace) - large phragmite stems, grass, roots, twigs, org. (some)	OL/PT	3 in. recov. initial - relocated 2nd spoon w/recov., v. soft	0	2.9
2'	1/12 in		1320 S-1						(2 spoons), damp		
	WOH	3 / 24	OU3-B2-SB5-0204			brown	S-2 (0-3) organic SILT - similar to above	OL	Empty initially – retried barrel + spoon not much v. soft damp	0	2.6
	WOH										
4'	WOH		1330 S-2								
	WOH	0 / 24	OU3-B2-SB5-0406				S-3 No Recovery		No recovery		
	WOH										
6'	WOH		1340 S-3								
	WOH	9 / 24	OU3-B2-SB5-0608			Black	S-4 (0-9in) similar to S-2 w/ manufactured waste (sludge-like paste) and organics	OL/ FILL	Potential fill w/ glass like fibers - pot. asbestos, v. soft (wet)	0	2.8
8'	WOH		1345 S-4								
	WOH	6 / 24	OU3-B2-SB5-0810			Black	S-5 (0-6) similar to S-4	OL/ FILL	More fill, very soft wet	0	3.2
10'	WOH		1350 S-5								
	WOH	10 / 24	OU3-B2-SB5-1012			Black	S-6 (0-10) similar to above w/ more fine sand and pot. asbestos waste - hair like material	OL/ FILL	No basket used to try and get more recovery, wet	0	13.3
12'	WOH		1400 S-6				black pot. manufactured waste				
	WOH	12 / 24	OU3-B2-SB5-1214			Black	S-7 (0-12) SILT, some fine sand trace fine organic fibers	SM	No waste observed	0	0.2
14'	WOH		1420 S-7								
	WOH	24 / 24	OU3-B2-SB5-1416			black	S-8 (24 in) organic SILT, trace fine sand, organic fibers, twigs	OL? SM?	No visible waste, soft to v. soft wet	0	0.3
16'	WOH		1430 S-8				EOB @ 16'				

TYPE OF DRILLING RIG:	CME-850 TRACK MOUNTED ATV RIG
METHOD OF ADVANCING BORING:	4.25' I D HSA 8 in OD Has
METHOD OF SOIL SAMPLING:	3 IN. SPLIT-SPOON DRIVEN WITH A 300 LB. HAMMER W/18 IN. DROP
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	NO WATER IN BORING @ 1435 HRS
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: B2-SB05

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB06
PROJECT NO.:	N7491-0320		START DATE: 7/31/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 7/31/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE	3.0 FT.	ELEVATION FROM: Est. from topo. map	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
	1/12 IN.	6	OU3-B2-SB6-0002			brown	Fibrous, organic, root mat, twigs		Difficult to recover - twigs, vegetation in way of	0	0
2	W.O.H. W.O.H.	24	0850 S-1						sample capture. Damp.		
	W.O.H.	8	OU3-B2-SB6-0204		Very Soft	brown	Org. SILT – mostly silt, organic fibers,	OL	Saturated	2.2	0
4	W.O.H.	24	0856 S-2				TR fine sand				
	1 2	15	OU3-B2-SB6-0406			Gray-brown	S-3A (0-9") gravelly SAND - f/c sand, coarse gravel, Well graded, loose	SW	Saturated, seashells Loose	9.2	15.4
6	2 1	24	0900 S-3		Soft	brown	S-3B (9-24") SILT, tr. fine sand, tr. organic fibers	SM ML (?)	Damp	1.1	10.1
	1 2	9	OU3-B2-SB6-0608			Gray-brown	S-4 gravelly SAND - similar to S-3A	SW	Saturated, loose	0	8.1
8	1/12 IN.	24	0910 S-4								
	1 1	19	OU3-B2-SB6-0810			brown	S-5 gravelly, silty, SAND w/ organic fibers - f/c sand, trace coarse gravel, some silt,	SM	Saturated, loose	0	10
10	1 1	24	0916 S-5								
	1 2	13	OU3-B2-SB6-1012			brown	S-6 sandy SILT, tr. gravel, f/m sand, tr. coarse gravel, tr. clay	SM	More silt than sand Saturated, loose	0	12.4
12	2 2	24	0925 S-6								
	3 6	24	OU3-B2-SB6-1214			brown	S-7A (0-12 in) sandy SILT, some gravel & f/m sand	SM	More gravel than in S-6 Saturated	0	6.4
14	5 4	24	0935 S-7			Gray-brown	S-7B (12-24 in) gravelly SAND, tr. silt, f/c sand & coarse gravel	SW	Fighting running sand. Sand up to 20 in. in flights		
										0	7.8
							EOB @ 14' W/SPOON @ 12' W/AUGER				

TYPE OF DRILLING RIG:	CME-850 TRACK-MOUNTED ATV RIG.
METHOD OF ADVANCING BORING:	4.25' I D HSA 8" OD
METHOD OF SOIL SAMPLING:	3 IN. BARREL 300 LB HAMMER (HYDRAULIC) DROP 18 IN
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	NO WASTE OBSERVED. WATER 2.70 FT BGS W/INDICATOR IN AUGER
OTHER OBSERVATIONS:	BACKFILL W/ BENTONITE SLURRY

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB07
PROJECT NO.:	N7491-0320		START DATE: 7/30/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: MES	COMPLETION DATE: 7/30/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS (ATL)		MON. WELL NO.:
GRD. SURFACE	6.0 ft.	ELEVATION FROM: Est. from topo. map	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
	1 1	14	OU3-B2-SB07-0002			Brown	SAND – poorly graded f/m, trace silt, trace coarse gravel, grass roots, 1 piece wood	SP	Dry – top soil, loose	0	
2	1 2	24	0800 S-1								
	1 1	17	OU3-B2-SB07-0204	2'		Gray-Brown	SAND, some silt, trace coarse gravel (F/M sand, tr. coarse sand, trace roots)	SP-SM	Dry, tighter than above	0	
4	1 1	24	0810 S-2								
	1 1	24	OU3-B2-SB07-0406			Brown	S-3A (0-7in) SAND f/m poorly graded sand , loose roots	SP	Damp, oxidized (red stain), damp	0	
6	1 1	24	0820 S-3			Black	S-3B (7-14") org SILT ,fine gray sand w/ (1/4 thick) laminations low plasticity	OL		0	
	1 ↓	24	OU3-B2-SB07-0608			Brown black	S-4A (0-5in) org SILT w/ fine med. sand, roots	OL	Sand is red-brown	0	
8	1 ↓	24	0830 S-4				S-4B (5-24in) PEAT - organic material, fibrous root Structure comminuted vegetative tissue	PT	Dense root system, wet	46.5	2.8
	1 1	15	OU3-B2-SB07-0810			Gray-Brown	S-5 (0-15in) SAND, some silt, tr. gravel (coarse), fine sand, tr. Organics (roots)	SP-SM	Damp - lot of seashells	2.7	0.3
10	1 3	24	0840 S-5								
	1 ↓	24	OU3-B2-SB07-1012			Gray-Black	S-6A (0-6") Organic SILT	SM/ OL	No shells observed, no gravel, damp higher plasticity @ top than at base	1.8	0.7
12	1 ↓	24	0850 S-6				S-6B (6-24) org. SILT at top, soft to very soft silty some fine sand, organics (roots)				
	1 6	23	OU3-B2-SB07-1214			Black	S-7A organic SILT, some sand, root matter, soft, very soft	OL (?) SM	similar to above, damp	0	12.7
14	2 2	24	0900 S-7			Black	S-7B SAND (fine), some silt, dense material	SM			
	1 2	16	OU3-B2-SB07-1416			Black Black	S-8A (0-9") similar to S-7B S-8B (9-14")SAND & GRAVEL, coarse,subround gravel, f/c	SM SW-GW	9-14" - coarse sand interval, wet	0	0.3
16	1 4	24	0910 S-8			black	Sand S-8C (14-24) similar to S-8A EOB 16' augers to 14'	SM			

TYPE OF DRILLING RIG:	CME 850 ATV TRACK-MOUNTED
METHOD OF ADVANCING BORING:	4.25' I D HSA 8 IN OD
METHOD OF SOIL SAMPLING:	3" SPOON, 18" DROP, 300 LB HAMMER (HYDRAULIC)
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	8.3' WATER LEVEL THROUGH AUGERS @ 0920
OTHER OBSERVATIONS:	BACKFILLED W/ BENTONITE SLURRY

Tetra Tech NUS, Inc.

BORING NO.: B2-SB07

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB08
PROJECT NO.:	N7491-0320		START DATE: 8/12/97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 8/12/97
DRILLED BY (Company/Driller):	ATL / MARK CHILDS		MON. WELL NO.:
GRD. SURFACE	5.5 FT.	ELEVATION FROM: Est. from topo. map	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0	2 2	6"	OU3-B2-SB08-0002		Very Loose	Mottled Red +	Thick phragmites @ surface, phrag. roots below surface w/ some sandy silt matrix, trace glass fragments	SM	1st attempt – 1" recovery, phrag. roots blocked nose	
	1 1	24"	1720 S-1			Dark. Gray	from 0-4 "		re-try @ EOB. glass 0-4"	0.0
2	2 2	16"	OU3-B2-SB08-0204			Gray-Brown	SILT, trace fine sand, phragmites roots as well as finer plant roots noted.	ML	H2S odor very strong, Soft, basket fingers	0.0
	2 1	24"	1550 S-2	4ft. 2 in.					squeezing sample.	
4	1 1	24"	OU3-B2-SB08-0406	Peat			S-3A = 2" similar to above, S-3B = 22" PEAT, mostly phragmites roots + stalk fragments	PT	Wet - saturated	326
	1 1	24"	1605 S-3				in silt matrix			
6	1 1	11"	OU3-B2-SB08-0608	Silt			SILT tr. fine sand, few-little plant fibers and roots, also shell fragments and glass fragments (clear)	ML	Glass fragments - saturated	7.5
	1 1	24"	1620 S-4							
8	W.O.H. W.O.H.	17"	OU3-B2-SB08-0810				S-5A = 8" - similar to S-4 above. S-5B = 9" - silt. trace fine sand, no plant or shell frag.		Saturated	5.9
	1 1	24"	1628 S-5				High mica content		1 lg. Phrag. Root in S-5A	
10	W.O.H. W.O.H.	18"	OU3-B2-SB08-1012							220
	1 1	24"	1640 S-6				Tr. Shells and plant fibers		marine deposits	20
12	W.O.H. W.O.H.	24"	OU3-B2-SB08-1214				marine sed. deposits			
	1 1	24"	1650 S-7				tr. Plant debris – very fine, not whole			
14	W.O.H. 1	18"	OU3-B2-SB08-1416				(comminuted)			28
16	1 1	24"	1710 S-8							

EOB @ 16'

TYPE OF DRILLING RIG:	CME-45 SKID RIG
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER W/18" FALL
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	NOT MEASURED
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: B2-SB08

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: B2-SB09
PROJECT NO.:	N7491-0320		START DATE: 7/30/97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 7/30/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE	3.0 Ft.	ELEVATION FROM: Est. from topo. map	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
	1/12 in.	21	OU3-B2-SB9-0002			brown	S-1A (0-6 in) SAND, fine, dry, loose, grass, roots, trace organic material	SP	top soil, grasses, dry	2.7	0
2	1/12 in.	24	1100 S-1			black	S-1B (6-24in) silty SAND w/ organic plant tissue, roots, phragmite stems, fine sand	SM	org. silt?, damp bottom	0	0
		23	OU3-B2-SB9-0204			black	S-2A (0-12in) org. SILT/PEAT-fibrous tissue, phragmite stems f/m sand fine.	OL (?)	dry @ top, damp at bottom	0	0
4	1/12 in.	24	1110 S-2			black	S-2B (13-24) SAND, some silt, f/m sand poorly graded. w/organics	SP	saturated at ~1', (interval only)	0	0
	1/12 in.	21	OU3-B2-SB09-0406			black	S-3A (0-12) SAND, some silt, f/m sand, poorly graded. w/organics	SP	wet	14.3	8.2
6		24	1120 S-3			brown black	S-3B (12-24) PEAT - organic material, fibrous	PT	can squeeze water out wet	0	0
	WOH	24	OU3-B2-SB09-0608			black	S-4A (0-10in) org SILT, some fine, sand, organic roots	OL	saturated, very soft	0	0
8	1	24	1130 S-4			black	S-4B (10-24) PEAT, organic fibers some silt, trace fine sand	PT	seashells	75.2	23.8
	WOH	23	OU3-B2-SB09-0810			black	S-5A (0-10in) similar to S-4A organic roots	OL		0	3.0
10	1	24	1140 S-5			black	S-5B (10-23in) silty fine SAND, some sand fine, tr. org.	SM OL (?)	dry, dense, crumbles, tr. seashells	1.0	2.9
	WOH	23	OU3-B2-SB09-1012			black	S-6 (0-23in) similar to S-5B tr. org.	SM OL (?)	no seashells	0	1.2
12	1	24	1146 S-6			↓					
	WOH	24	OU3-B2-SB09-1214			black	S-7 (0-24in) similar to S-6, few organic, fine sand, silty, fine SAND	SM (?) OL (?)	very soft @ top, dense at bottom	14.9	10.9
14	1	24	1200 S-7								
	WOH	24	OU3-B2-SB09-1416			black	S-8 (0-24in) similar to S-7 w/ tr. organics, tr. twigs	SM OL (?)	wet	45.3	8.9
16	WOH	24	1210 S-8								

EOB @ 16'

TYPE OF DRILLING RIG:	CME 850 ATV TRACK MOUNTED
METHOD OF ADVANCING BORING:	4.25 IN ID HSA 8 IN OD AUGERS TO 14' SB TO 16'
METHOD OF SOIL SAMPLING:	3" SPLIT BARREL W/ 300 LB HAMMER (HYDRAULIC) 18 IN DROP
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	1155 HRS WATER NO IN HOLE YET, CHECKED AGAIN - NO WATER ENTERED HOLE @
OTHER OBSERVATIONS:	BACKFILL W/ BENT. SLURRY

Tetra Tech NUS, Inc.

BORING NO.: B2-SB09

BORING LOG FOR: RAYMARK OU2

PROJECT NO.:

LOGGED BY: T. DORGAN

TRANSCRIBED BY: MES

DRILLED BY (Company/Driller): Aquifier Drilling & Testing Inc./M. Harrington

GRD. SURFACE ELEVATION: 7.3'

ELEVATION FROM: NGVD-1929

BORING NO.: SB-312B

START DATE: 01/21/99

COMPLETION: DATE: 01/27/99

MON. WELL NO.: MW-312B

CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Soil Surface			
							No samples 0-2'			
2										
	10	0.5	OU2-SO-312-0204			Orange	S-1A = 0.3' fine-medium poorly graded SAND	SP	Saturated	FID = 84 (methane?)
	5					Brown		SM/ML		PID = 0.0
	3	2.0				Dark	S-1B = 0.2' fine SAND & SILT abundant root fibers			
4	7		1100 S-1			Brown				
	5	0.2	OU3-SO-312-0406		Soft	Dark	SILT – trace-few clay abundant roots and organic	OL / PT	Poor recovery	FID = 68
	3					brown	debris, not quite peat			PID = 0.0
	7	2.0								
6	2		1115 S-2							
	1	0.0	1.2/2.0 OU3-SO-		Very		Clayey, SILT, abundant roots and plant fiber. Trace		No recovery w/2 in.	FID = 111.6
	WOH		3" spoon 312-0608		Soft		fine		Re-sample w/3" spoon	PID = 13.1
	1	2.0	S-3				Sand, borderline peat.		w/baggy in nose, = 1.2'	
8	1		1135 S-4						recovery	
	1	1.2	OU3-SO-312-0810				S-5A = 1.0' similar to above		PEAT=	FID-2092
	1		-1302 + S-5B 0910'							PID-35.4
	2	2.0	-1300 = S-5A 0809'			Lt. gray	S-5B = 0.2' – SAND, mostly poorly graded Med. sand	SP	Saturated SAND=	FID = 1050
10	3		0910 S-5							PID = 26.1
	7	0.0	OU3-SO-312-1012		No recovery	No Recovery	No Recovery	No Recov.	No recovery	
	2									
	4	2.0								
12	5		1320 S-6							
	15	0.8	OU3-SO-312-1214			Light	SAND, mostly fine-coarse well graded sand. Trace silt,	SW	Saturated	FID = 80
	10					Gray	trace fine-coarse subrounded gravel.			PID = 0.0
	11	2.0								
14	6		1345 S-7							
	5	1.3	OU3-SO-312-1416			Olive-	Mostly fine-med. Poorly graded SAND	SP	No structure noted.	FID = 20.7
	9		1410=DUP-01			Gray				PID = 0.0
	11	2.0					Trace silt, trace subangular, fine gravel			
16	13		1400 S-8							

TYPE OF DRILLING RIG: Mobile Drill – B59

METHOD OF ADVANCING BORING: 5 in.ID D&W casing to 14ft.bgs. Wash out & change water,telescope to 4 in.ID drive & wash casing

METHOD OF SOIL SAMPLING: 2 in. split-barrel sampler driven w/a 140lb.hammer w/a 30in. drop

METHOD OF ROCK CORING: NQ wireline

GROUNDWATER LEVELS:

OTHER OBSERVATIONS:

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK OU2		
PROJECT NO.:		BORING NO.:	SB-312B
LOGGED BY:	T. DORGAN	START DATE:	01/21/99
TRANSCRIBED BY:	MES	COMPLETION: DATE:	01/27/99
DRILLED BY (Company/Driller):	Aquifier Drilling & Testing Inc./M. Harrington	MON. WELL NO.:	MW-312B
GRD. SURFACE ELEVATION:	7.3’	CHECKED BY:	
ELEVATION FROM:	NGVD-1929		

DEPTH (FEET)	BLOWS PER 6”	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
16										
18										
20	22 28	1.0	OU2-SO-312-1921			yellow-Orange,red	Gravely, fine-coarse SAND, well graded	SW	Heavy oxidation in Bottom 4 in.	FID = 0.0 PID = 0.0
	19 30	2.0	1505 S-9			Orange in Bottom 4”				
22										
24										
	15 12	0.5	OU2-S0-312-2426			Yellow - orange	Similar to S-9 above	SW	Oxidation staining throughout	FID = 0.0 PID = 0.0
26	18 22	2.0	1525 S-10							
28										
30	8 7	1.0	OU2-S0-312-2931			Tan-Light	SAND, mostly fine poorly graded sand, trace-few silt	SP	minor oxidation & bedding noted	FID = 0.0 PID = 0.0
	15 18	2.0	1545 S-11			brown				
32										

TYPE OF DRILLING RIG:	Mobile Drill – B-59
METHOD OF ADVANCING BORING:	5 in. ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in. ID drive & wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140lb hammer with a 30 in drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK OU2		
PROJECT NO.:		BORING NO.:	SB-312B
LOGGED BY:	T. DORGAN	START DATE:	01/21/99
DRILLED BY (Company/Driller):	Aquifier Drilling & Testing Inc./M. Harrington	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
GRD. SURFACE ELEVATION:	7.3'	MON. WELL NO.:	MW-312B
ELEVATION FROM:	NGVD-1929	CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
32										
34										
	11	1.2	OU2-SO-312-3436			Tan	SAND fine – med. Poorly graded sand, trace few silt	SP	Minor bedding	FID = 0.0
	19		Raining			Light				PID = 0.0
	21	2.0				Brown				
36	22		1610 S-12			orange				
38										
	18	1.3	OU2-SO-312-3941				Silty, fine poorly graded SAND	SM		FID = 0.0
40	26									PID = 0.0
	33	2.0								
	31		1625 S-13							
42										
44										
	5	1.5	OU2-SO-312-4446				f-c well graded SAND, trace silt	SW		FID = 0.0
	8									PID = 0.0
	11	2.0								
46	13		1635 S-14							
48										

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	5 in ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in. ID drive & wash casing.		
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in drop		
METHOD OF ROCK CORING:	No wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	1-2' 99 d&w to 44', sample 44-46', secure borehole.	BORING NO.: SB-312B	PAGE: 3 OF 8

BORING LOG FOR:	RAYMARK OU2		BORING NO.: SB-312B
PROJECT NO.:			START DATE: 01/21/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller):	Aquifier Drilling & Testing Inc./M. Harrington		MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION:	7.3'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
48										
	4	1.5	OU2-SO-312-4951			light brown with orange streaks	Fine – med. Poorly graded SAND, trace silt	SP	Minor bedding	FID = 0.0 PID = 0.0
50	8									
	15	2.0	0845 S-15							
	12									
52										
54										
	6	1.8	-5456			Light brown	FGR SAND, poorly graded	SP		FID = 0.0 PID = 0.0
	5									
	7	2.0								
56	8		1140 S-16							
58										
	4	1.8	-5961			Light brown	FGR SAND, poorly graded	SP	Minor bedding	FID = 0.0 PID = 0.0
60	8									
	11	2.0								
	13		1202 S-17							
62										
64										

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	5 in. ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in ID drive and wash casing		
METHOD OF SOIL SAMPLING:	2 in. split barrel sampler driven with a 140lb hammer with a 30 in drop		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	D. Waylon logged S-16 through S-21	BORING NO.: SB-312B	PAGE: 4 OF 8

BORING LOG FOR:	RAYMARK OU2		BORING NO.: SB-312B
PROJECT NO.:			START DATE: 01/21/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc./M. Harrington		MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION:	7.3'	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
64										
	7	2.0	OU2-SO-312-6466			Light Brown	FGR SAND, poorly graded	SP		FID = 0.0 PID = 0.0
	6									
	11	2.0								
66	10		1234 S-18							
68										
70	7	1.2	-6971			Light brown	FGR SAND and silty, FGR sand at bottom	SP	Minor Bedding	FID = 0.0 PID = 0.0
	19									
	31	2.0	1305 S-19							
	47									
72										
74										
	4	2.0	-7476			Light brown	FGR SAND, poorly graded	SP	Minor bedding	FID = 0.0 PID = 0.0
	12		S-20:74'-76'							
	14	2.0								
76	29		1333 S-20							
78										
80	7	1.8	OU2-SO-312-7981			Light brown	FGR sand, poorly graded	SP		FID = 0.0 PID = 0.0
	19	2.0	1425 S-21							

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	5 in ID D&W casing to 14 ft. bgs. Wash out & change water, telescope to 4 in ID drive and wash casing		
METHOD OF SOIL SAMPLING:	2 in. split barrel sampler driven with a 140 lb. Hammer with a 30 lb drop		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	D. Waylon logged S-16 through S-21.	BORING NO.: SB-312B	PAGE: 5 OF 8

BORING LOG FOR:	RAYMARK OU2		BORING NO.: SB-312B
PROJECT NO.:			START DATE: 01/21/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller):	Aquifier Drilling & Testing Inc./M. Harrington		MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION:	7.3’	ELEVATION FROM: NGVD-1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6”	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
80										
	61	1.8	OU2-SO-312-7981			Light brown	Fine, poorly graded SAND	SP		FID&PID =0.0
	80	2.0								
82										
84										
	6	2.0	OU2-SO-312-8486			Light red brown	Fine – med. Poorly graded SAND	SP	No structure noted	FID = 0.0
	8									
	13	2.0								
86	34		1020 S-22							
88										
	8	1.5	OU2-SO-312-8991			Red-brn Olive – brn gray	Similar to S-22 above for ~6” grades into a silty, fine Poorly graded SAND approximately 1 ft. sharp contact with Saprolitic schist in bottom 4 in.	SP SM	Fine bedding noted above rock contact. Roller bit (4 in) to 93’, change water and clean out tub.	FID = 0.0
90	13			Top of Bedrock						
	41	1.7	1130 S-23					Bedrock		
	50/2			90.5’						
92										
							GNEISS. Biotite, muscoite, quartz mafic gneiss with Near vertical foliation. Numerous horiz. To high			
94		~2:00	C-1 = 93-99			dark gray w/	angle fractures from 93-96.5’. Heavy oxidation staining and halo’s, trace gouge.		Many fractures 45 & 90°	
			PEN = 6.0							
		2:15	REC = 5.8			light gray			to foliation plane in axis.	
			RQD length = 28 in			white bands				
96		2:10	RQD 39%						~10 gal. lost	

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	5 in ID D&W casing to 14 ft bgs. Wash out & change water, telescope to 4 in ID drive & wash casing		
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	FID-B.	BORING NO.: SB-312B	PAGE: 6 OF 8

BORING LOG FOR: RAYMARK OU2 | BORING NO.: SB-312B
PROJECT NO.: | START DATE: 01/21/99
LOGGED BY: T. DORGAN | TRANSCRIBED BY: MES | COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller): Aquifier Drilling & Testing Inc./M. Harrington | MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION: 7.3' | ELEVATION FROM: NGVD-1929 | CHECKED BY:

DEPTH (FEET) 96	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		2:30				Similar to above	Rock-type similar to above, GNEISS-PARAGNEISS? 45° angle fractures noted @ 98.25, 98.8 & 99.25 w/ white			
98		2:00					calcite x-tals & light green calcite deposition. Two horiz. Frac. W/oxidation stains at 100'			
		2:30								
100			C-2 = 99'-106.2' Pen = 7.2' REC = 7.3' (picked up C-1 remnant) RQD length= 69.25" RQD = 65%							
		2:20								
102		2:00					Bedrock grading into a mica (biotite & muscovite) rich SCHIST from gneiss. High angle fractures parallel to		Jagged Fracture along Crinkle folds, 100gallons	
		2:00					Foliation w/oxidation & gouge @ 101-101.5. Connected To horiz. Fracture. Also hgh angle fracture w/mica			
104		2:15					Gouge @ 102.5 rock is soft, numerous jagged Oxidized fracture @ 103& 104.			
		2:15							Approx. 100 gall. lost in C-2. Lost H_2O return.	
106		2:30					Degraded and saphrolitic with multi. Fracture 105-106.5		Core/rock jammed ~106	
		2:45	C3 = 106.2' – 109' Pen = 2.8' Rec = 2.45' RQD length = 21" RQD = 62%							
108		3:30								
		3:15					Jagged, oxidized fracture @ 108 & 108.8 - inc. chlorite and trace garnet noted with depth		Crinkle folding noted	
110		3:00	C-4 = 109'-118.7' Pen = 9.7' Rec = 10.3' RQD length = 103"				Quartz vein (vuggy) with chlorite, pyrite noted ~0.5' wide @ 110.			
		3:00								
112		3:15					Low angle fracture w/oxidation @ 111.5'			

TYPE OF DRILLING RIG: Mobile Drill – B59
METHOD OF ADVANCING BORING: 4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING: 2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING: NQ wireline
GROUNDWATER LEVELS:
OTHER OBSERVATIONS:

Tetra Tech NUS, Inc.

BORING LOG FOR: RAYMARK OU2 | BORING NO.: SB-312B
PROJECT NO.: | START DATE: 01/21/99
LOGGED BY: T. DORGAN | TRANSCRIBED BY: MES | COMPLETION: DATE: 01/27/99
DRILLED BY (Company/Driller): Aquifier Drilling & Testing Inc./M. Harrington | MON. WELL NO.: MW-312B
GRD. SURFACE ELEVATION: 7.3' | ELEVATION FROM: NGVD-1929 | CHECKED BY:

DEPTH (FEET) 112	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		3:30	RQD by Pen length = 88%			Similar To above	High angle fracture along foliation w/calcite deposition @ 112'-113'. Numerous oxidized high angle fractures to 113.5'			
114		3:15	RQD by Rez. Length == 83%							
		3:45				dark gray green w/ white bands	Horiz. Fracture @ 115.5. High angle and 45° fracture @ 116'			
116		3:20								
		3:15								
118		3:25					High angle wavy fracture @ 118'.			
		3:50	C-5 = 118.7' – 122' Pen = 3.3' Rec = 3.3' RQD length = 33" RQD = 83%				High angle jagged fracture @ 119' and clean fracture @ 119.5			
120		3:00					High angle fracture with trace calcite deposit ~ 121-122'			
		3:25								
122		2:50								
		2:10	C-6 = 122'-124' Pen = 2' Rec = 1.4' RQD leng. 16.8" RQD by pen = 70% RQD by Recov.=100%				C-6 = solid core, similar rock type to above			
124		2:30					Left 0.6' stub @ EOB			
							EOB = cored to 124' open to 123.4'			

TYPE OF DRILLING RIG: Mobile Drill – B59
METHOD OF ADVANCING BORING: 4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING: 2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING: NQ wireline
GROUNDWATER LEVELS:
OTHER OBSERVATIONS:

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK/OU2/OU4/PHASE 1GROUNDWATER			BORING NO.:	SB-312S
PROJECT NO.:				START DATE:	2/3/99
LOGGED BY:	A. Putnam	TRANSCRIBED BY:	MES	COMPLETION: DATE:	2/3/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc./K. Kutarnia			MON. WELL NO.:	MW-312S
GRD. SURFACE ELEVATION:	7.5’	ELEVATION FROM:	NGVD-1929	CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6”	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							No soil samples taken, refer to boring log 312B for description.			
4									5” casing to 8.5’ to get a good sand (filter) pack around the screen.	FID=2.6 to 15.1 PPM while washing out to 9’ bgs.
8										
8.8										

TYPE OF DRILLING RIG:	CME
METHOD OF ADVANCING BORING:	5” ID Drive & Wash Casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. hammer with a 30 in. drop.
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	N/A
OTHER OBSERVATIONS:	Strong odor while washing out @ 8’ bgs—the FID reading ranged from 2.6 to 15.1 PPM. Odor cleared after it was washed out

Tetra Tech NUS, Inc.

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0898 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING | BORING NO: SP-136

DATE START: 04/06/1994 | DEPTH TO WATER: -- | LOGGED BY: KJ | GROUND EL.: 8.98

DATE COMPLETED: 04/06/1994 | DATE & TIME: --/--/19-Y -- | CHECKED BY: | TOTAL DEPTH: 14.20

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	14 10 11 7 / 6 6 6 4	22	11	Interval= 0.0-2 Fill material	S-1 (11in) SILTY SAND, some gravel, concrete, asphalt, fiber pads, leather, slag, brown.	
	2.0	S-2	7 4 4 3 / 6 6 6 6	24	18	Interval= 0204' Fill material	S-2A (7in) SILTY SAND, trace gravel, rock frags, slag, concrete, asphalt, brown. S-2B (11in) ORGANIC SILT, some sand, trace clay, roots, ash & cinders, fiber material, rock frags, brown to black.	
	4.0	S-3	10 14 7 17 / 6 6 6 6	24	6	Interval= 0406' Fill material	S-3 (6in) SILTY SAND, leather-like pieces, rock frags., ash & cinders, brown.	
	6.0	S-4	7 10 4 7 / 6 6 6 6	24	24	Interval= 0608' Fill material & Nat. contact.	S-4A (12in) SILTY SAND, trace gravel, leather-like material, glass, ash & cinders, glass, slag, sea shells, brown to black. S-4B (12in) ORGANIC SILT, trace clay, plant matter low plas., brown/black.	OL
	8.0	S-5	4 4 4 6 / 6 6 6 5	24	12	Interval= 0810' Natural mat.	S-5 (12in) ORGANIC SILT, trace clay, similar to S-4B.	OL
	10.0	S-6	7 10 4 7 / 6 6 5 5	24	15	Interval= 1012' Natural mat.	S-6 (12in) ORGANIC SILT, trace clay, similar to S-5, w/seashells.	OL
	12.0	S-7	6 4 8 6 / 6 6 6 6	24	24	Interval= 1214' Natural mat.	S-7 (24in) ORGANIC SILT, trace clay, similar to S-6. EOB @ 14ft bgs. Backfilled boring.	OL
	14.0							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-12ft. Performed continuous sampling w/3in split-barrels and 140lb hammer 0.25-14 ft bgs Screen samples for: Pb,Cu,PCB,Asbestos. Possible natural material at 4-6ft interval. Backfilled boring. NM/NR= Not measured or recorded on log.

ACAD NAME: RATMARK\BORINGS_ALTERED\SP-136.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 8890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING | BORING NO: SP-SB7

DATE START: 05/04/1994 | DEPTH TO WATER: -- | LOGGED BY: KJ | GROUND EL.: 9.20

DATE COMPLETED: 05/04/1994 | DATE & TIME: --/--/19-- -- | CHECKED BY: | TOTAL DEPTH: 12.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	USCS
	0.0	S-1	10 12 13 / 6 6 6	18	12	Interval= 0.5-2 Asphlt/Othre6in fill material	S-1 (12in) SILTY SAND, some gravel, leather-like material or plastic, brown.	
	2.0	S-2	10 5 7 6 / 6 6 6 6	24	14	Interval= 0204' Fill material	S-2 (14in) SILTY SAND, some gravel, charcoal-like pieces, tile-like pieces, nails, dk brown.	
	4.0	S-3	5 7 6 8 / 6 6 6 6	24	22	Interval= 0406' Fill material	S-3A (11in) SILTY SAND, some gravel, similar to S-2, with seashells and like fill material, inter bed of dk brown silt (2in thick). S-3B (11in) SILTY SAND, 1-2in thick interbeds of silt, brown to blach.	
	6.0	S-4	1 2 1 3 / 6 6 6 6	24	24	Interval= 0608' Possible nat. material.	S-4 (24in) ORGANIC SILT/PEAT, fibrous plant roots and interbeds of silt, trace clay, dk brown.	Pt/OL
	8.0	S-5	5 3 4 3 / 6 6 6 6	24	20	Interval= 0810' Possible nat. material.	S-5 (20in) ORGANIC SILT w/peat, similar to S-4, w/more silt than peat, trace clay.	OL
	10.0	S-6	3 3 5 7 / 6 6 6 6	24	23	Interval= 1012' Possible nat. material.	S-6 (23in) ORGANIC SILT, trace clay, trace peat, similar to S-5. EOB @ 12ft bgs. Boring backfilled.	OL
	12.0							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,2-10ft. Performed continuous sampling w/3in split-barrels and 140lb hammer 0.5-12 ft bgs. Screen samples for: Pb,Cu,PCB,Asbestos. Possible natural material at 6-8ft interval. Backfilled boring. NM/NR= Not measured or recorded on log. Low tide, no water table indicators observed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\SP-SB7.DWG (8/25/99)

BORING LOG FOR:	Raymark OU6	BORING NO.:	DBL-101
PROJECT NO.:	N4106-0320	START DATE:	8/14/02 @ 1530
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/14/02 @ 1645
DRILLED BY (Company/Driller):		MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1	S-1	2.0 / 2.0	OU6-SO-DBL-101-0002	Organic Silt	Medium dense	Dark Brown	Organic Silt – Some Sand (Meadow material)	OL	Moist-wet, no PACM, man-made materials, or sulfur odor. Organics, reeds.	PID = 0.0 FID = 0.0
2	@ 1600		8/14/02 @ 1600							
3	S-2	2.0 / 2.0	OU6-SO-DBL-101-0204							
4 (1)	@ 1630		8/14/02 @ 1630							
				B.O.E.						

TYPE OF DRILLING RIG:	NA		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using Hand Auger		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (D) PID (D)	BORING NO.: DBL-101	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft. Possible native material encountered.

BORING LOG FOR:	Raymark OU6			BORING NO.:	DBL-102
PROJECT NO.:	N4106-0320			START DATE:	8/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Phragmites	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.25 / 2.0	OU6-SO-DBL-102-0002	Silty Sand		Brown	Silty Sand – Trace Gravel (Mostly fine sand & silt, w/some medium to coarse sand, trace gravel and organics)	SW/SM	Dry, no man-made material noted in sample.	PID = 2.4 FID = 0.0
2			8/15/02 @ 0915							
3		1.8 / 2.0	OU6-SO-DBL-102-0204	Organic Silt		Dark Brown	Organic Silt – Trace Sand (Mostly silt w/some organics, fine sand)	OL/OH		PID = 0.0 FID = 0.0
4			8/15/02 @ 0930							

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: DBL-102	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	DBL-103
PROJECT NO.:	N4106-0320	START DATE:	8/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		No recovery	No sample		Very Loose		No recovery in sample.		No recovery	PID = 2.4 FID = 0.0
2					↓		↓		↓	
3		0.75 / 2.0	OU6-SO-DBL-103-0204 (1) 8/15/02 @ 1030	Silty Sand	loose	Brown	Silty Sand – Trace Gravel (Mostly fine sand and silt, trace medium to coarse sand and gravel)	SM	Dry, PACM and slag noted in sample.	
4						↓		↓		PID = 0.0 FID = 0.0
5		?	OU6-SO-DBL-103-0406 (1) 8/15/02 @ 1100	Sand w/silt		Dark Brown	Sand – Some Silt – Trace Gravel (Mostly fine to medium sand w/some coarse sand, silt, trace gravel and organics)	SP-SM	Dry, PACM, slag and glass noted in sample.	
6						↓	↓	↓	↓	PID = 0.0 FID = 0.0
7		1.0 / 2.0	OU6-SO-DBL-103-0608 (1) 8/15/02 @ 1130							
8						↓	↓	↓	Dry, PACM noted in sample.	PID = 0.0 FID = 0.0
9		1.2 / 2.0	OU6-SO-DBL-103-0810 (1) 8/15/02 @ 1200	Silty Sand		Light Brown	Silty Sand – Trace Gravel (Mostly fine sand and silt, trace medium to coarse sand & gravel)	SM	Dry, trace PACM noted in sample.	
10						↓	↓	↓		PID = 0.0 FID = 0.0
11		2.0 / 2.0	OU6-SO-DBL-103-1012 (1) 8/15/02 @ 1215	Organic Silt		Dark Brown	Organic Silt (Mostly silt w/some organics)	↓	Moist, no man-made material noted in sample.	
12 [2]								OL/OH		PID = 0.0 FID = 183.0
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: B.

BORING NO.: DBL-103

Tetra Tech NUS, Inc.

1. Full suite analytical was collected from this boring.
2. Bottom of Exploration (B.O.E.) @ 12.0 ft., no man-made materials noted in the 10-12 ft. interval, soils appear to be natural.

BORING LOG FOR:	Raymark OU6	BORING NO.:	DBL-104
PROJECT NO.:	N4106-0320	START DATE:	8/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		0.9 / 2.0	OU6-SO-DBL-104-0002 8/15/02 @ ?	Silty Sand	Loose	Brown	Silty Sand (Mostly fine sand & silt, trace organics)	SM	Very dry, PACM noted in sample, possible tile fragments.	
2										PID = 0.0 FID = 0.0
3		0.75 / 2.0	OU6-SO-DBL-104-0204 8/15/02 @ 1450							
4										PID = 0.0 FID = 0.0
5		1.0 / 2.0	OU6-SO-DBL-104-0406 8/15/02 @ 1500						Fill material noted, moist, PACM, tile, slag, and roofing shingles noted in sample.	
6										PID = 0.0 FID = 0.0
7		1.2 / 2.0	OU6-SO-DBL-104-0608 8/15/02 @ 1515	Sand w/silt			Sand – Some Silt – Trace Gravel (Mostly fine to medium sand w/some coarse sand, silt, trace gravel and organics)	SP-SM	PACM, tile noted in sample.	
8										PID = 0.0 FID = 0.0
9		2.0 / 2.0	OU6-SO-DBL-104-0810 8/15/02 @ 1540	Organic Silt		Dark Brown	Organic Silt (Mostly silt and organics)	OL/OH	Moist, no man-made materials noted in sample.	
10 (1)										PID = 0.0 FID = 505
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B.	BORING NO.: DBL-104	PAGE: 1 OF 1

1- Bottom of Exploration (B.O.E.) @ 10.0 ft., no man-made materials noted in last sample, soils appear to be natural.

BORING LOG FOR:	Raymark OU6			BORING NO.:	DBL-105
PROJECT NO.:	N4106-0320			START DATE:	8/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Fragmites			
1		0.7 / 2.0	OU6-SO-DBL-105-0002	Organic Silt		Brown	Organic Silt (Mostly organics w/some silt and fill material)	OL/OH	Moist, fill material consists of shingle and * (see bottom)	
2			8/15/02 @ 1630							PID = 0.0 FID = 0.0
3		1.25 / 2.0	OU6-SO-DBL-105-0204						Moist, no fill material in bottom 1.0 ft. of sample.	
4 (1)			8/15/02 @ 1645				Organic Silt (Mostly organics & silt)			PID = 19.3 FID = 430
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B.	BORING NO.: DBL-105	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made materials noted in last 1.0 ft, soils appear to be natural.
* - Fill material is tar/rubber like substance w/plants growing through it.

BORING LOG FOR:	Raymark OU6	BORING NO.:	DBL-106
PROJECT NO.:	N4106-0320	START DATE:	8/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Phragmites	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.5 / 2.0	OU6-SO-DBL-106-0002	Silt	Soft	Dark Brown	Silt – Trace Sand (Mostly Silt, trace fine sand, and organics)	ML	Dry, possible asbestos fibers noted in sample.	
2			8/15/02 @ 1840							PID = 0.0 FID = 0.0
3		1.7 / 2.0	OU6-SO-DBL-106-0204						Dry, no man-made materials noted in sample.	
4 (1)			8/15/02 @ 1845							PID = 0.0 FID = 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Track mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H & S Instrument Group: B. FID (D)	BORING NO.: DBL-106	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made materials noted in sample, soils appear to be natural.

BORING LOG FOR:	Raymark OU6	BORING NO.:	DBL-107
PROJECT NO.:	N4106-0320	START DATE:	8/16/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/16/02
DRILLED BY (Company/Driller):		MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Phragmites & Topsoil			
1		NA	OU6-SO-DBL-107-0002	Organic Silt		Brown	Organic Silt – Some Sand – Trace Clay (Mostly silt and fine sand, organics, trace clay)	OL/OH	Dry, no man-made materials noted in sample.	
2			8/16/02 @ 0840	↓		↓		↓	↓	PID = 0.0 FID = 0.0
3		NA	OU6-SO-DBL-107-0204				Organic Silt (Mostly silt, organics)			
4 (1)			8/16/02 @ 0845				↓	↓	↓	PID = 0.0 FID = 1.5
				B.O.E.						

TYPE OF DRILLING RIG:	NA		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using Hand Auger		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H & S Instrument Group: B	BORING NO.: DBL-107	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made materials noted in sample, soils appear to be natural.

BORING LOG FOR:	Raymark OU6	BORING NO.:	DBL-108
PROJECT NO.:	N4106-0320	START DATE:	8/16/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/16/02
DRILLED BY (Company/Driller):		MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Phragmites & Topsoil			
1		NA	OU6-SO-DBL-108-0002	Organic Silt		Brown	Organic Silt – Some Sand (Mostly silt and organics w/some fine sand)	OL/OH	Dry, no man-made materials noted in sample.	
2			8/16/02 @ 0905							PID = 0.0 FID = 0.0
3		NA	OU6-SO-DBL-108-0204			Dark Brown	Organic Silt – Trace Clay (Mostly silt and organics)		Moist, no man-made material noted in sample.	
4 (1)			8/16/02 @ 0910							PID = 0.0 FID = 1.8
				B.O.E.						

TYPE OF DRILLING RIG:	NA		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using Hand Auger		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H & S Instrument Group: B	BORING NO.: DBL-108	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made materials noted in sample, soils appear to be natural.

BORING LOG FOR:	Raymark OU6	BORING NO.:	DBL-109
PROJECT NO.:	N4106-0320	START DATE:	8/16/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/16/02
DRILLED BY (Company/Driller):		MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Phragmites & Topsoil	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		NA	OU6-SO-DBL-109-0002 (2) 8/16/02 @ 0930	Organic Silt		Brown	Organic Silt – Some Sand (Mostly silt and organics w/some fine sand)	OL/OH	Dry, no man-made materials noted.	
2										PID = 0.0 FID = 1.1
3		NA	OU6-SO-DBL-109-0204 8/16/02 @ 0935				Organic Silt – Trace Clay (Mostly silt and organics)		Moist, no man-made material noted.	
4 (1)										PID = 0.0 FID = 4.5
				B.O.E.						

TYPE OF DRILLING RIG:	NA		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using Hand Auger		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H & S Instrument Group: B.	BORING NO.: DBL-109	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E) @ 4.0 ft., no man-made materials noted in sample, soils appear to be natural.
2. A Confirmation sample was collected from 0-2 ft.

200 FERRY BOULEVARD

BORING LOG

BROWN & ROOT ENVIRONMENT

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-HW113M
DATE START: 05/02/1994	DEPTH TO WATER: 6.27	LOGGED BY: KJ	GROUND EL.: "
DATE COMPLETED: 05/02/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH: 38.50

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A				4.25"HSA auger 5ft.pull & advance 6in csg.	NO SOIL SAMPLES COLLECTED. SEE BORING LOG SP-113B FOR SOIL DESCRIPTION INFORMATION 0-38.5FT.	
	13.5	B				8"casing,13.5' Spin&Wash.Telescope 6m.adv.		

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
W - Natural groundwater table

NOTES:

HW113M REPRESENTS ONE OF TWO WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-HW113B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\HW113M_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0090	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW113M
DATE START: 05/02/1994	DEPTH TO WATER: 6.27	LOGGED BY: KJ	GROUND EL.: ' .0
DATE COMPLETED: 05/02/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH: 36.52

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16						NO RESULTS THIS PAGE	
	32							

LEGEND:

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN – Penetration length of sampler
REC – Length of sample recovered
▼ – Natural groundwater table

NOTES:

MW113M REPRESENTS ONE OF TWO WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW113B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\MW113M_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0898	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-HW113H		
DATE START: 05/02/1994	DEPTH TO WATER: 6.27	LOGGED BY: KJ	GROUND EL.:		
DATE COMPLETED: 05/02/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH: 38.5		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	38.5	C				End 6in advance	EOB @ 38.5 ft. Set well. See well log.	

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

HW113H REPRESENTS ONE OF TWO WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-HW113B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\HW113H_C.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	SP-MW113B	
DATE START: 04/26/1994	DEPTH TO WATER: 6.63	LOGGED BY: KJ,JM	GROUND EL.:	7.10	
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH:	112.5ft	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	3 3 4 5 / 6 6 6	24	16	HSA to 14' pull augers, advance 8in casing 14'	S-1 (16in) silty SAND, trace gravel, root matter, leaves, twgs, brown	SM
	2.0	S-2	6 7 5 7 / 6 6 6	24	24	Interval= 0204' Fill material.	S-2A (12in) silty SAND, poorly graded, brown S-2B (12in) SILT and SAND, poorly graded, fibers, plastic pieces, consistency of a sludge-like processed waste, black.	SM
	4.0	S-3	6 9 7 8 / 6 6 6	24	24	Interval= 0406' Fill material.	S-3 (24in) SILT and SAND, similar to S-2B w/ green fiber laden tiles, organic matter (leaves and roots)	
	6.0	S-4	6 9 1 2 / 6 6 6	24	10	Interval= 0608' Fill material.	S-4 (10in) SILT and SAND, similar to S-3 w/tiles.	
	8.0	S-5	1 1 1 2 / 6 6 6	24	18	Interval= 0810' Fill material.	S-5 (18in) ORGANIC SILT, trace clay, trace sand, fibrous plant matter, green fiber laden tiles, gray-brown	OL
	10.0	S-6	1 2 1 3 / 6 6 6	24	20	Interval= 1012' Possible nat. material.	S-6 (20in) ORGANIC SILT, similar to S-5 w/o FILL	OL
	12.0	S-7	2 WOH WOH WOH / 6 6 6	24	24	Interval= 1214'	S-7 (24in) ORGANIC SILT, similar to S-6.	OL
	14.0	S-8	1 1 / 42 12	24	24	Interval= 1416' Telescope 6in casing&advance.	S-8 (24in) SILT, some clay, trace organics, root matter, reeds, dk brown to black.	OL/ML

LEGEND

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; spring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
"W" = Feature groundwater table

NOTES

Advanced boring w/4.25inID HSA,0-14ft. Pull augers. Spin 8in casing to 29ft. Telescope 6in casing to 94ft. Perform cont. sampling 0-33ft. Advance 3in barrels w/140lb hammer. Stnd. sampling @ 33ft to 93ft. Rock likely @ 90-93ft. Cored 20ft to 112.5ft. Packer test done. Nat. mat. likely @1012ft. Set well screen 106.5 to 96.5ft. Samples screened Pb,Cu,PCB,Asb.

ACAD NAME: RAYNARK\BORINGS_ALTERED\MW113B_A.DWG (8/27/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: SF-MW1139

DATE START: 04/26/1994 DEPTH TO WATER: 6.63 LOGGED BY: KJ,JM GROUND EL.: 7.10

DATE COMPLETED: 04/28/1994 DATE & TIME: 05/16/1994/1459 CHECKED BY: TOTAL DEPTH: 28.00

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	1 1 1 1 / 6 6 6	24	24	Interval= 1618'	S-9 (24in) SILT, similar to S-8 w/trace gravel	CL/ML
	18.0	S-10	1 1 1 1 / 6 6 6	24	24	Interval= 1820'	S-10 (24in) SILT, similar to S-8.	CL/ML
	20.0	S-11	1 1 2 3 / 6 6 6	24	17	Interval= 2022'	S-11 (17in) SILT, similar to S-10.	CL/ML
	22.0	S-12	1 2 2 3 / 6 6 6	24	24	Interval= 2224'	S-12 (24in) SILT, similar to S-11.	CL/ML
	24.0	S-13	1 1 3 3 / 6 6 6	24	24	Interval= 2426'	S-13 (24in) SILT, similar to S-12.	CL/ML
	26.0	S-14	1 2 3 2 / 6 6 6	24	24	Interval= 2628'	S-14 (24in) SILT, some clay, little sand, poorly graded.	ML
	28.0	S-15	2 2 4 5 / 6 6 6	24	19	Interval= 2830'	S-15 (19in) silty SAND, poorly graded, greyish black.	SM

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler: or coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-14Ft. Pull augers. Spin 8in casing to 29Ft. Telescope 6in casing to 94ft. Perform cont. sampling 0-30Ft. Advance 3in barrels w/140lb hammer. Stnd. sampling @ 33Ft to 93Ft. Rock likely @ 90-93Ft. Cored 20Ft to 112.5Ft. Packer test done. Nat. mat. likely @102Ft. Set well screen 106.5 to 96.5Ft. Samples screened:Pb,Cu,PCB,Asb.

ACAD NAME:A:\MW1139_3.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	SP-MW1138	
DATE START: 04/26/1994	DEPTH TO WATER: 6.63	LOGGED BY: KJJM	GROUND EL.:	7.12	
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH:	112.50	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	33.0	S-16	18 16 12 15 / 6 6 6 6	24	0	Interval= 3335' Strd. sampling Grinding/Cobble	S-16 (0in) NO RECOVERY, pushed a rock.	
	38.0	S-17	12 10 12 20 / 6 6 6 6	24	0	Interval= 3840' Grinding/cobble	S-17 (0in) NO RECOVERY, pushed a rock.	
	43.0	S-18	16 20 35 33 / 6 6 6 6	24	18	Interval= 4345'	S-18 (18in) SAND, trace silt, trace gravel, poorly graded, brown.	SP

LEGEND:

TYPE-NO. = Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA 0-14ft. Pull augers. Spin 8in casing to 29ft. Telescope 6in casing to 94ft. Perform cont. sampling 0-30ft. Advance 3in barrels w/140lb hammer. Strd. sampling @ 33ft to 93ft. Rock likely @ 90-93ft. Cored 20ft to 112.5ft. Packer test done. Nat. nat. likely @101.2ft. Set well screen 106.5 to 96.5ft. Samples screened Pb,Cu,PCB,Asb.

ACAD NAME:A:\MW1138_C.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO. | BORING NO: SB-MW113B

DATE START: 04/26/1994 | DEPTH TO WATER: 6.63 | LOGGED BY: KJ,JM | GROUND EL.: 7.0

DATE COMPLETED: 04/28/1994 | DATE & TIME: 05/16/1994/1459 | CHECKED BY: | TOTAL DEPTH: 113.50

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	48.0	S-19	12 15 20 22 / 6 6 6 6	24	14	Interval= 4858'	S-19 (14in) SAND, trace silt, poorly graded, brown w/red-brown motting near top of split-barrel.	SP
	53.0	S-20	17 12 25 30 / 6 6 6 6	24	24	Interval= 5355'	S-20 (24in) SAND, trace silt, poorly graded, bedding observed, brown.	SP
	58.0	S-21	12 21 25 27 / 6 6 6 6	24	12	Interval= 5860'	S-21 (12in) SAND, similar to S-20, except mottled color and no bedding visible.	SP
	63.0	S-22	10 12 15 20 / 6 6 6 6	24	20	Interval= 6365'	S-22A (12in) SILT, some sand, trace clay, poorly graded, brown to light gray.	ML
							S-22B (8in) SILT, similar to S-22A except for presence of medium sand and all gray color.	ML

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN. - Penetration length of sample
REC. - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-14ft. Pull augers. Spin 8in casing to 29ft. Telescope 6in casing to 94ft. Perform cont. sampling 0-30ft. Advance 3in barrels w/140lb hammer. Cont. sampling @ 33ft to 93ft. Rock likely @ 90-93ft. Cored 20ft to 112.5ft. Packer test done. Nat. mat. likely @101.2ft. Set well screen 106.5 to 96.5ft. Samples screened Pb,Cu,PCB,Asb.

ACAD NAME:A:\MW113B_2.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW113B		
DATE START: 04/26/1994	DEPTH TO WATER: 6.63	LOGGED BY: KJ,JH	GROUND EL.: 7.10		
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH: 113.5ft		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	62.3	S-22	10 13 15 20 / 6 6 6 6	24	20	Interval= 6365'	S-22A (12in) SILT, some sand, trace clay, poorly graded, brown to light gray.	ML
							S-22B (8in) SILT, similar to S-22A except for presence of medium sand and all gray color.	ML
	68.0	S-23	25 70 63 100 / 6 6 6 6	24	22	Interval= 6870'	S-23A (12in) SILTY SAND, fine sand, poorly graded, brown-gray.	SM
							S-23B (10in) silty sandy GRAVEL, schist rock chips brown-red.	GM
	73.0	S-24	17 28 30 41 / 6 6 6 6	24	10	Interval= 7375' Grinding/Cobble 76-78'. Loud.	S-24 (10in) silty sandy GRAVEL, poorly graded, red-brown.	GM
	78.0	S-25	8 8 8 8 / 6 6 6 6	24	10	Interval= 7880' 2in barrel used Grinding to 83'	S-25 (10in) SAND, trace silt, trace gravel, poorly graded, brown.	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-14ft. Pull augers. Spin 8in casing to 29ft. Telescope 6in casing to 94ft. Perform cont. sampling 0-30ft. Advance 3in barrels w/140lb hammer. Stnd. sampling @ 33ft to 93ft. Rock likely @ 90-93ft. Cored 20ft to 112.5ft. Packer test done. Not. not likely @102ft. Set well screen 106.5 to 96.5ft. Samples screened Pb,Cu,PCB,Asb.

ACAD NAME:A:\MW113B_E.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW113B		
DATE START: 04/26/1994	DEPTH TO WATER: 6.63	LOGGED BY: K.J.JM	GROUND EL.: 7.10		
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH: 113.5ft		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	83.0	S-26	25 38 50/5	6	24	12	Interval= 83ft. 3in barrel used	S-26 (18in) SAND, trace silt, bedding visible, poorly graded, brown.	SP
	88.0	S-27	176 78 55 64	6	24	19	Interval= 88ft. Grinding to 88' Advance casing.	S-27A (12in) sandy GRAVEL, trace silt, poorly graded, gravel/cobbles to 3in., brown. S-27B (7in) sandy GRAVEL, smear to S-27A w/ altered rock frags/chips. Cobbles to 3.5in in length.	GP
	93.0	S-28	103	6	6	0	Casing to 93'. Attempt sample Bedrock	S-28 (0in) NO RECOVERY except few altered meta rock chips. Top of rock between 90-93ft bgs. Note: Seated 6in casing after S-28. Change water. Driller starts coring at 92.5' w/series B bit. Run 1 starts above last interval.	
		C-29			18	18	Run 1 C-29: 92.5'-94'	C-29 Dk green-gray, Foliated and Fractured with 80° from ground surface - quartz (milky), veins 1/4-inch thick, little muscovite content.	
	94.0								

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-14ft. Pull augers. Spin 8in casing to 29ft. Telescope 6in casing to 94ft. Perform cont. sampling 0-30ft. Advance 3in barrels w/140lb hammer. Strd. sampling @ 33ft to 93ft. Rock likely @ 90-93ft. Cored 20ft to 112.5ft. Packer test done. Nat. nat. likely @101.2ft. Set well screen 106.5 to 96.5ft. Samples screened Pb,Cu,PCB,Ash.

ACAD NAME: RATMARK\BORINGS_ALTERED\MW113B_F.DWG (8/27/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW113S		
DATE START: 04/26/1994	DEPTH TO WATER: 6.63	LOGGED BY: KJ,JM	GROUND EL.: 7.12		
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1459	CHECKED BY:	TOTAL DEPTH: 112.50		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	94.0	C-31		24	24	Run 2 = C-2A&B Tot.Time:4min Jam @ 2.0ft.	C-30 (24in) BEDROCK, similar to C-29 RQD=0%.	
	96.0	C-31		24	24	Run 3 = C-3A&B Tot.Time:5min Jam @ 1.8ft.	C-31 (22in) BEDROCK, similar to C-30 w/trace of red-brown staining (weathered). RQD=20%.	
	98.0	C-32		48	48	Runs=C-4AtoC-4D Tot.Time:7min Jam/Clear nat.	C-32 (48in) BEDROCK, similar to C-31, weathered rock from 100.2 to 101.0ft, soft red-brown rock. Note: Coring difficult, soft material, change bit.	
	102.5	C-33		78	78	Run5=C-5AtoC-5F Tot.Time:15min Lose H2o @ 108'	C-33A (12in) Bedrock, similar to C-32. C-33B (66in) Bedrock, white & lime-green, foliated at 80 degrees, fracture at 40 degrees to gs. High quartz vein content. Bedrock taking on water at 108ft. RQD= 84%	
	108.5	C-34		48	48	Run6=C-6AtoC-6D Tot.Time:9min Runs 1-6 = 23ft	C-34 (48in) Bedrock, similar to C-33 w/o fractures Uneven. End of coreHole @ 112.5ft bgs. Performed packer tests at 94-112.5ft. At 20psi (water) and 100psi (packer), flow rate approx. 1.5gal/min. At 40psi (water), flow rate= approx. 2gal/min.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-14ft. Pull augers. Spin 8in casing to 29ft. Telescope 6in casing to 94ft. Perform cont. sampling 0-30ft. Advance 3in barrels w/140lb hammer. Stnd. sampling @ 33ft to 93ft. Rock likely @ 90-93ft. Cored 20ft to 112.5ft. Packer test done, hat. not likely @101.2ft. Set well screen 106.5 to 96.5ft. Samples screened Pb,Cu,PCB,Asb.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW113B_G.DWG (8/27/99)

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB200-101
PROJECT NO.:	N4106-0320			START DATE:	6/24/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	6/24/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.5 / 2.0	OU6-SO-FB200-101-0002 6/24/02 @ 1725			Black brown	Well graded F-C SAND w/trace silt and trace gravel	SW	Potential asbestos in bottom 12 in. fill.	PID = 0.01 FID = 23.0
2										
3		1.6 / 2.0	OU6-SO-FB200-101-0204 6/24/02 @ 1740				0.8' Similar to above.		Possible raymark fill.	
4						Gray, red & black	Bottom 12 in. fiberous Solids mixed with coarse sand.	ML		
5		2.0 / 2.0	OU6-SO-FB200-101-0406 6/24/02 @ 1755				SILT with some fine sand.		0.1' concrete bottom 1.9' – silt and fine sand	
6										
7		0.8 / 2.0	OU6-SO-FB200-101-0608 6/24/02 @ 1810			Gray & black	SILT with some fine sand	ML		
8							SILT with some fine sand. Possible organics			
9		0.6 / 2.0	OU6-SO-FB200-101-0810 6/24/02 @ 1815			Gray black	SILT with some fine and coarse sand	ML	wet	
10										

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using Macro-Core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	BOE at 10 ft bgs water table encountered.	BORING NO.:	FB200-101	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB200-102
PROJECT NO.:	N4106-0320			START DATE:	6/24/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	6/24/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.5 / 2.0	OU6-SO-FB200-102-0002 6/24/02 @ 1547			Gray Brown	Poorly graded F-C SAND and silt, trace gravel, and trace glass & wood.	SP-SM	Dry	PID = 0.01 FID = 0.0
2										
3		1.9 / 2.0	OU6-SO-FB200-102-0204 6/24/02 @ 1605			Gray Brown	Poorly graded F-C SAND and silt, trace gravel and organic matter.	SP-SM	Dry	
4										
5		1.8 / 2.0	OU6-SO-FB200-102-0406 6/24/02 @ 1619			Gray Brown	Silty SAND, trace gravel and organic matter.	SL	Moist	PID = 0.0 FID = 0.0
6										
7		1.0 / 2.0	OU6-SO-FB200-102-0608 6/24/02 @ 1630			Gray Brown	Poorly graded Med.- Coarse SAND, trace silt & gravel.	SP	Moist	PID = 0.0 FID = 8.6
8										
9		0.5 / 2.0	No sample taken			Gray Brown	Poorly graded GRAVEL w/some fine and coarse sand, trace silt. BOE wet gravel & sand	GP	Wet, gravel	
10										

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	BOE at 10 ft groundwater encountered.	BORING NO.: FB200-102	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB200-103
PROJECT NO.:	N4106-0320			START DATE:	6/26/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	6/26/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
				Asphalt						
				Fill						
0										
		1.4 / 2.0	OU6-SO-FB200-103-0002 6/26/02 @ 0800		Medium	Gray Brown	Silty SAND, mostly fine sand and some silt trace coarse sand, and gravel	SM	Fill, wood in sample, dry	PID = 5.0 FID = 25.0
2										
		2.0 / 2.0	OU6-SO-FB200-103-0204 6/26/02 @ 0815		Medium	Gray Brown		SM	Fill, PACM identified in sample, roofing shingles noted, piece of rubber slightly moist.	PID = 0.0 FID = 173.0
4										
		1.2 / 2.0	OU6-SO-FB200-103-0406 6/26/02 @ 0830			Gray Brown		SM	Some PACM identified organics and other wood noted in sample, slightly moist.	PID = 0.0 FID = 148.0
6				Organic Soil			Bottom 3' organic soil, mostly SILT and organics	OL/O		
		1.4 / 2.0	OU6-SO-FB200-103-0608 6/26/02 @ 0844			Brown		OL/O CL	Piece of tile and other PACM identified, high organic content.	PID = 11.6 FID = 472.3
8				Clay organic			Bottom 0.3' sandy, lean CLAY, mostly clay w/some sand.			
		1.3 / 2.0	OU6-SO-FB200-103-0810 6/26/02 @ 0900	Sandy Lean clay		Gray Brown	Top 0.5' organic soil, mostly SILT and organics Bottom 0.8' sandy lean CLAY mostly clay w/some sand	OL/O CL	One small PACM identified, high organic content.	PID = 0.0 FID = 0.0
10										
		1.1 / 2.0	OU6-SO-FB200-103-1012 6/26/02 @ 0914			Gray brown	Bottom 0.6' lean CLAY, mostly clay and organics	CL	Natural in appearance strong sulfide odor, high organic content.	PID = 0.0 FID = 2100
12				Lean & organics						
		1.8 / 2.0	OU6-SO-FB200-103-1214 6/26/02 @ 0923				Top 0.7' sandy lean CLAY, mostly clay some sand trace organics. Bottom 1.1' lean CLAY, mostly clay and organics.	CL		PID = 0.0 FID = 1032
14										

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	FB200-103
LOGGED BY:	A. Roy	START DATE:	6/26/02
TRANSCRIBED BY:	LJD	COMPLETION: DATE:	6/26/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		CHECKED BY:	TD
ELEVATION FROM:			

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-FB200-103-1416	Clay			Top 0.6' sandy, lean CLAY, mostly silt w/some sand	CL	Natural in appearance, high organic sulfide odors.	PID = 80
16		1.6 / 2.0	6/26/02 @ 0936	Clay w/organics			Bottom 1.0' lean CLAY, mostly clay & organics.	CL		FID = 2500

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	BOE at 16.0 ft, target depth reached.	BORING NO.: FB200-103	PAGE: 2 OF 2

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB200-104
PROJECT NO.:	N4106-0320			START DATE:	6/25/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	6/25/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
				Grass						
0				fill						
1		1.2 / 2.0	OU6-SO-FB200-104-0002 6/25/02 @ 1330 1 full suite collected 1 dup. Collected *			Gray brown	Silty SAND. Mostly silt to fine sand with some coarse sand, trace gravel	SM	Moist, shingle in sample, glass sleeve, possible asbestos.	PID = 0.0 FID = 0.0
2										
				BOE						

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using Macro-Core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS	*Dup. ID = OU6-SO-DP01. 2/25/02 @ 1425 ** boring terminated, possible leach field or septic encountered.	BORING NO.:	FB200-104	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB200-105
PROJECT NO.:	N4106-0320			START DATE:	6/26/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	6/26/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.7 / 2.0	OU6-SO-FB200-105-0002 6/26/02 @ 0947	Asphalt fill Sand w/silt (Fill)			Top 1' GRAVEL and coarse materials some Asphalt.		Dry, fill materials	PID = 0.0 FID = 402
2						Dk. gray	Bottom 0.7' poorly graded SAND w/silt mostly fine sand w/some silt	SP-SM		
3		1.35 / 2.0	OU6-SO-FB200-105-0204 6/26/02 @ 1005			Gray/ Black	Top 0.75 ft. similar to above Bottom 1.0' silty SAND, mostly silt & fine	SM	Dry, suspect PACM identified.	PID = 0.0 FID = 346
4						↓	SAND Similar to previous trace coarse sand	SM		
5		0.9 / 2.0	OU6-SO-FB200-105-0406 6/26/02 @ 1015			↓	↓		Slightly moist some organics noted.	PID = 0.0 FID = 350
6						↓	↓	SM		
7		1.1 / 2.0	OU6-SO-FB200-105-0608 6/26/02 @ 1030			↓	↓		Moist more organic matter than previous interval.	PID = 0.0 FID = 1,921
8				Sand		Gray	0.2' poorly graded SAND, mostly coarse sand	SP		
9		0.8 / 2.0	OU6-SO-FB200-105-0810 6/26/02 @			↓	↓		Wet sand, no man made materials identified.	PID = 0.0 FID = 4.2
10						↓	Similar to previous, trace fine sand & gravel	SP		

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using Macro-Core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	BOE at 10.0 ft. Groundwater encountered	BORING NO.:	FB200-105	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6		BORING NO.: FB200-106
PROJECT NO.:	N4106-0320		START DATE: 6/27/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 6/27/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.5 / 2.0	OU6-SO-FB200-106-0002 6/27/02 @ 1339	Sod/soil					Fill material, some asphalt ash material noted in sample.	PID = 0.0 FID = 5.4
2				Sand		Brown	Poorly graded SAND w/silt mostly coarse to fine sand with some silt trace gravel	SP-SM		
3		0.9 / 2.0	OU6-SO-FB200-106-0204 6/27/02 @ 1400				Top 0.6		Fill material, piece of black wood	PID = 0.0 FID = 56
4				Silt		Dk. Gray	Bottom 0.3 SILT w/sand mostly silt & fine sand	ML		
5		2.0 / 2.0	OU6-SO-FB200-106-0406 6/27/02 @ 1420	Silty Sand		Gray	Top 1.2 ft silty SAND, trace coarse sand & trace gravel, mostly silt & coarse sand	SM	Top 1.2 saturated Bottom 0.8 moist 1 small piece of PACM material id. Solid material	PID = 0.0 FID = 1,050
6				C. sand			Top 1.2 –1.7 poorly graded SAND, mostly c. sand 1.7-2.0 SILT w/sand mostly silt w/some sand	SP SM		
7		1.0 / 2.0	OU6-SO-FB200-106-0608 6/27/02 @ 1440	Silt		Brown Dk. Gray	trace gravel.		Very wet, some trace organic material, 1 small piece of tile observed.	PID = 0.0 FID = 15.5
8								SM		
9		1.8 / 2.0	OU6-SO-FB200-106-0810 6/27/02 @ 1455	Silt		Dk. Gray			Very wet, increased organic matter.	PID = 0.0 FID = 45
10							SILT w/sand mostly silt & fine sand, trace clay	SM		
11		2.0 / 2.0	OU6-SO-FB200-106-1012 6/27/02 @ 1515					SM	Silt layer, very wet, organic layer moist with sulfide odor, lots of organic material.	PID = 0.0 FID = 382
12				Organic			Bottom 0.8' organic soil w/silt and some clay	OL/OH		

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using Macro-Core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	BOE at 12 ft., no man-made materials observed in sample.	BORING NO.:	FB200-106	PAGE: 1 OF 1

230 FERRY BOULEVARD

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		
PROJECT NO.:	N7491-0320	BORING NO.:	A2-SB02
LOGGED BY:	TRACY DORGAN	START DATE:	7-17-97
TRANSCRIBED BY:	FMD	COMPLETION DATE:	7-17-97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS	MON. WELL NO.:	
GRD. SURFACE ELEVATION:	~7.0'	ELEVATION FROM:	Estimated from topo.
		CHECKED BY:	THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID ppm]
0	7	1.3	OU3-A2-SB02-0002		Loose	Gray	0 - 5 = asphalt. .5-2' = SAND. mostly f-m poorly graded.	SP	Fuel oil odor @ 1' bgs cuttings	55
	12 19	1.5	0830 S-1			Dark gray	SAND. few-some fine gravel. tr. silt fill		Dry	
2	11 16	1.15	-0204		Loose	Light gray	SAND. mostly f-c well graded sand few fine gravel, tr. silt, trace white-grayish flat mineral or shell fragments fill.	SW	Whit-gray flat (planer) fragments maybe shell or P.A.C.M. Dry.	1000
	5 2	2.0	0840 S-2		Med. Dense					
4	1 2	2.0	-0406		Very	Gray	.5' = similar to S-2. .5 - 1.25'= fine SAND, poorly graded, tr. silt.		Debris inc. poss. brake pads or clutch material	450
	3 5	2.0	0850 S-3		Loose	Dark gray	1.25 -1.5' = PEAT. brown, organic rich. 1.5 - 2.0 = brake pads ? similar to ceramic or asphalt shine.		moist damp	
6	3 5	1.8	-0608		Med. Dense		similar to S-3. mix of small zones (2-3" thick brown. peat w/fill debris). + fill. mostly sand + debris		Debris incl. cloth, metal copper wire, tile, poss. brake or clutch material and gas saturated.	7
	26 24	2.0	0910 S-4							
8	7 14	1.0	-0810		Loose		similar to S-3+4. soupy due to water content. lower 1/3 incl. nose of spoon contains solid wood w/nails.		Fill. (wood/nails)	35
	7 8	2.0	0930 S-5		Med. Dense					
10	3 1	1.4	-1012	PEAT	Very Loose		.2' - similar to S-3+4.		Peat from 10.2	200
	1 2	2.0	0940 S-6			brown	.2 - 2.0 - PEAT. brown silt, with very high organic fiber content. no fill debris in peat noted.	PT	To 12 1-piece woven cloth/sute?)	
12	2 1	2.0	-1214		Very Loose					0
	1 1	2.0	1000 S-7							
14	1 1	2.0	-1416						2 pieces metal wire in peat	56
16	1 1	2.0	1005 S-8							

EOB 16'

TYPE OF DRILLING RIG:	CME-75
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3.0" SPLIT BARREL DRIVEN WITH 300 LB. HAMMER
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	WATER @ 12' BGS MEAS. IN HSA @ 14'
OTHER OBSERVATIONS:	P.A.C.M. = POTENTIALLY ASBESTOS CONTAINING MATERIAL

Tetra Tech NUS, Inc.

BORING NO.: A2-SB02

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A2-SB04
PROJECT NO.:	N7491-0320		START DATE: 8-11-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 8-11-97
DRILLED BY (Company/Driller):	ATL / PAUL MacAlloon		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~6.50'	Elevation From: Estimated form topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID ppm]
0.5	4 4 7 5	13" / 18"	OU3-A2-SB04-0002 1350 S-1			black lt.brn black ½ layer	S-1A= 2"-3" - Asphalt @ surface. S-1B = 8" - SAND, trace silt, trace fine rounded gravel. sand is f-m poorly graded. Fill incl. Asbestos. S-1C= SAND. mostly f-c well graded sand little – some f-c rounded gravel. black brown ½" thick organic rich layer @ contact w/S-1B. trace silt in nose	SP	moist. damp in lower 1/2. Trace asbestos in middle of sample. 1 piece white w/dark coating	56
2.5	15 19 18 17	20" / 24"	-0204 1410 S-2			brown black black black	S-2A=3" similar to S-1C. S-2 B=4" sandy, SILT. S-2C = 4" crushed cobble. S-2D = 9" - Poss. Asphalt shingle material or gasket.	SW	MOIST, not saturated poss. single material or gasket material.	8.5
4.5	13 15 7 5	6" / 24"	-0406 1425 S-3			black	S-3 = SAND. Mostly f-m poorly graded SAND. tr. silt. Crushed smokey quartz in nose.	SP	saturated @ 4.5'	0
6.5	5 7 5 5	14" / 24"	-0608 1430 S-4			black	S-4 = FILL. silty, SAND & FILL. trace fine subang. gravel, trace shell fragments.		saturated. wire on auger flights blk Tar-like substance 1.5" x1" across, tile frag. fill incl.	0
8.5	10 4 2 4	2" / 24	-0810 1450 S-5			gray	Silty, SAND. mostly fine sand & silt. poor recovery.		Poor recovery	0
10.5	1 2 3 2	1.5" / 24	-1012 1500 S-6			gray brown	poor recovery		poor recovery	0 0
12.5	5 4 4 5	15 / 24	-1214 1514 S-7			black redish brown	S-7A = 5" - silty SAND & FILL debris. S-7B = 10" - SILT borderline PEAT. close to 50% org. debris (root fibers). 1 piece of rubber belt or wire in silt/PEAT, hanging out of nose.		Fill incl. Tile and metal	10.5
14.5							REFER TO NOTES			

EOB @ 14'

TYPE OF DRILLING RIG:	CME 45 SKID RIG	Note: **Attempt @ 14' finds 2.5 - 3' of slough. It seems the driller does not have a center bit or plug for the HSA. Abandon boring @ 14! backfill w/bentonite slurry.**	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4.25' I D HSA		
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	UPGRADE TO LEVEL C RESP. @ ~1355. FROM 0204 SPOON & 0" W/AUGERS		
OTHER OBSERVATIONS:		BORING NO.: A2-SB04	PAGE: 1 OF 1

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A2-SB04A
PROJECT NO.:	N7491-0320		START DATE: 8-12-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 8-12-97
DRILLED BY (Company/Driller):	ATL / MARK CHILDS		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~6.5’	Elevation From: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6”	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PPM]
0							No samples from 0-8’.		Auger to 8’ before sampling refer to log for A2-SB04 for 0-8’ details.	105 @ 2’ above
2									grinding & chattering from ~2’ – 3.5”	ground near augers & cuttings 0 in B.Z.
4										0 from cuttings
6										
8	2 2	9” 24”	OU3-A2-SB04A-0810 1230 S-1		Very loose	Dark brown	FILL. silty, SAND trace fine gravel. fill debris. trace plant fibers.	SM	Saturated fill includes Asbestos tile.	56
	2 5						Approx. 1” of reddish-brown peat or organic rich silt In nose.			
10	2 4	17” 24”	-1012 1245 S-2		Loose	Red brown	S-2A = 5” Similar to S-1 S-2B = 12” - PEAT. Reddish brown Peat. Plant fibers are easily discernable. One piece green plastic found in peat.	PT	Fill similar to S-1 in S-2A Plastic noted in Peat.	405
12	2 3	20” 24”	-1214 1300 S-3				S-3A= 5” – SILT. High QTY. of plant fiber but more silt than plant debris. S-3B = 15” PEAT. Similar to S-2B. Asbestos tile found in PEAT. Rubber as well.	ML PT	Rubber & asbestos tile noted inside peat.	4.2
14	3 3	1” 24”	-1416 1350 S-4				Poor recovery, SILT similar to S-3A 1 piece asphalt shingle noted in nose.	ML	Asphalt shingle noted.	0.0
16	3 2									

TYPE OF DRILLING RIG:	CME-45 SKID RIG
METHOD OF ADVANCING BORING:	4.25’ I D HSA
METHOD OF SOIL SAMPLING:	3” OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER 18” DROP
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	WATER MEAS. @ 13.2’ BGS INSIDE AUGERS @ 14 BGS
OTHER OBSERVATIONS:	LEVEL C

Tetra Tech NUS, Inc.

BORING NO.: A2-SB04A

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A3-SD06
PROJECT NO.:	N7491-0320		START DATE: 8/13/97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: MES	COMPLETION DATE: 8/13/97
DRILLED BY (Company/Driller):	ATL / MARK CHILDS		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~4.0'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID]
0	W.O.H. 1	2"	OU3-A3-SD06-0002		Very Loose	brown	sandy, SILT. sands are fine, phragmites, fiber and roots	SM	Poor recovery due to phrag. roots damp, wet	0.3
	1 1	24"	0835 S-1							
2	2 1	4"	-0204			brown	SAND, some -little. silt. sand is fine to medium. poorly graded. pet. odor and sheen.	SP	Saturated	25.0
	1 1	24"	0840 S-2			dark gray	trace roots		Petroleum odor and sheen	
4	1 1	8"	-0406	4'3"		dark gray brown	S-3A=3" similar to S-2	SP	Saturated	
	1 1	24"	0848 S-3				S-3B=5" SILT, tr. fine. sand, some plant fibers and roots (very fine)	ML	Pet. odor	7.5
6	W.O.H. ↓	24	-0608				PEAT	PT	Fiber peat. No visible asbestos or debris noted	10.2
	W.O.H. ↓	24"	0900 S-4							
8	W.O.H. W.O.H.	22"	-0810							12.0
	1 ↓	24"	0910 S-5							
10	W.O.H. W.O.H.	20"	-1012							28.0
	W.O.H. 1	24"	0920 S-6							
12	W.O.H. W.O.H.	24"	-1214			dark brown	SILT. mostly silt, some organic debris, grading from peat to silt (from top to bottom)	ML	Grading out of peat to silt	0.0
	1 1	24"	0930 S-7							
14	W.O.H. W.O.H.	24"	-1416			gray	decreasing organic debris			1.2
	1 1	24"	0945 S-8				very fine vegetation, debris at bottom one piece fine, gravel in silt			

TYPE OF DRILLING RIG:	45C SKID RIG
METHOD OF ADVANCING BORING:	D&W 4 in. casing
METHOD OF SOIL SAMPLING:	2 in. split barrel / 140 lb. hammer
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK			BORING NO.:	A3-SD06
PROJECT NO.:	N7491-0320			START DATE:	8/13/97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY:	MES	COMPLETION DATE:	8/13/97
DRILLED BY (Company/Driller):	ATL / MARK CHILDS			MON. WELL NO.:	
GRD. SURFACE ELEVATION:	~4.0’	ELEVATION FROM:	Estimated from topo.	CHECKED BY:	THD

DEPTH (FEET)	BLOWS PER 6”	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID]
	W.O.H.	24”	OU3-A3-SD06-1618				SILT, tr. fine sand similar to S-8		Trace wood debris	
16	1					gray			no structure noted	7.0
	1									
	1	24”	1003 S-9							
	W.O.H.	24”	-1820				Sand seam at 18’ 10’ ½” thick			
18	1									3.0
	1									
	1	24	1015 S-10							
20							EOB @ 20’ bgs			

EOB at 20ft. BGS.

TYPE OF DRILLING RIG:	45C SKID RIG		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D&W 4 in. casing		
METHOD OF SOIL SAMPLING:	2 in. split barrel / 140 lb. Hammer		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: A3-SD06	PAGE: 2 OF 2

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	SPVM-101
LOGGED BY:	C. Rousseau	START DATE:	7/19/02 @ 0840
TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/19/02 @ 1000
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ∂ 0.2" F-sand, silt, gravel	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.4 / 2.0	OU6-SO-SPVM-101-0002	Fill		Medium Brown	Sand – Some Silt – Trace Gravel (Poorly graded, fine to med. sand, fine and coarse gravel).	SM	Dry-moist, PACM noted @ 1.0 ft. fibrous, white	PID = 0.0
2			7/19/02 @ 0855 MS/MSD	Sand some Silt						FID = 1.3
3		2.0 / 2.0	OU6-SO-SPVM-101-0204				Transition from fill to organic silt @ 3.1 ft. bgs		Moist, PACM noted @ 2.0–3.1 ft. Organic silts 3.1-4.0 ft.	PID = 0.0
4			7/19/02 @ 0930	Organic Silts		Dark Brown	Organic Silt – Some Sand (Mostly Silt, organics, fine sand)	OL		FID = 1,634
5		2.0 / 2.0	OU6-SO-SPVM-101-0406				Organic Silt and Peat – Some Sand (Mostly Silt, decaying vegetative tissue, poorly graded fine sand)	OL/PT	Moist-wet, no PACM noted or man-made material. Organics, Peat, strong sulfur odor.	PID = 0.0
6 (1)			7/19/02	Peat						FID = 600
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (A) PID (A).	BORING NO.: SPVM-101	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.)@ 6.0 ft. bgs, Organic Silt layer encountered @ ∂ 3.1 ft. bgs. Peat encountered with Organic Silt @ 4 ft-bgs. No PACM observed below depth of 3.1 ft.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPVM-102
PROJECT NO.:	N4106-0320	START DATE:	7/19/02
LOGGED BY:	G. Gardner	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/19/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.8 / 2.0	OU6-SO-SPVM-102-0002	0.5'	Loose	Dark Gray-Black	Sand & Gravel (note: surface is asphalt – 2" thick)		Fill (Dry)	PID = 5.3 FID = 7.3
2			7/19/02 @ 0915		Loose		Silty Sand – Trace Gravel (fractured rock fragment)	SM	Trace Asbestos (Dry) – Fill	↓
3		1.2 / 2.0	OU6-SO-SPVM-102-0204		M. Dense	Dark Brown/ Very Dark Gray	Trace asbestos, asbestos tile (?) ↓	↓		PID = 0.0 FID = 340
4			7/19/02 @ 0925	~ 3.8'			↓	↓	(Moist at bottom)	↓
5		0.4 / 2.0	OU6-SO-SPVM-102-0406		Loose-Soft	Dark Gray to Black	Sandy Silt – Trace Gravel Trace asbestos near top of sample	ML	(Wet) Fill	PID = 0.0 FID = 753
6			7/19/02 @ 0935	~ 6.0'				↓		↓
7		0.0 / 2.0	OU6-SO-SPVM-102-0608 No Recovery		Soft		No recovery 6'-8', very soft and wet	?	Driller could push 1" by hand	
8				~ 8.0'						
9		2.0 / 2.0	OU6-SO-SPVM-102-0810		Soft		Organic Clayey Silt Wood fragments	OL	Used closed – piston core to attempt recovery – organic "swamp" odor – natural soil.	PID = 272 FID = 440
10 (1)			7/19/02 @ 1000					↓		↓
				B.O.E.			Bottom of Boring – 10'			

TYPE OF DRILLING RIG:	Track Mount Geo-Probe 54LT		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Macro-Core in Acetate Sleeve		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Located by back fence, between used cars, asphalt is stained.	BORING NO.: SPVM-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 10.0 ft.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPVM-103
PROJECT NO.:	N4106-0320	START DATE:	7/19/02
LOGGED BY:	G. Gardner	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/19/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.0 / 2.0	OU6-SO-SPVM-103-0002 * 7/19/02 @ 1050	0.2'		Blk- Dk. Gray	Asphalt ~3"		Fill (Dry, moist at base)	PID = 0.0 FID = 40.1
2					Loose	Black To	Silty Sand - Trace Gravel to Some Gravel	SM		
3		1.5 / 2.0	OU6-SO-SPVM-103-0204 7/19/02 @ 1115	~ 3.0'		Dark Gray	- Some asbestos (PACM) in greenish "chips" and fibrous forms.			PID = 0.0 FID = 61.5
4					Loose	Dark Brown	Organic Silt – wood, "grass"	OL	Fill	
5		1.8 / 2.0	OU6-SO-SPVM-103-0406 7/19/02 @ 1135	~ 5.0'			- Possible fibrous asbestos and PACM		Very wet	PID = 0.0 FID = 1,988
6					Loose	Dark Gray-Black	- Black with white speckles Asphalt shingles (stacked)		Fill	
7		0.0 / 2.0	No Recovery						Very wet, few pieces of shingle maybe cave-in	
8				~ 8.0'						
9		1.0 / 2.0	OU6-SO-SPVM-103-0810 7/19/02 @ 1200			Dark Brown	Organic Silt – pieces of shingle, one piece of metal.	OL	(Very wet) Fill	PID =0.0 FID = 562
10										
11		0.6 / 2.0	OU6-SO-SPVM-103-1012 7/19/02 @ 1220							PID =90.0 FID = 315
12				11.0	Soft	Olive Brown	Organic Clayey Silt – Root Fibers	CL-ML to CL	Natural silt	
				B.O.B.			Bottom of Boring-12'			

TYPE OF DRILLING RIG:	Track Mount Geo-Probe 54LT
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Macro-Core in Acetate Sleeve
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Located ~20 ' inside south fence line. Asphalt surface, stained.

Tetra Tech NUS, Inc.

BORING NO.: SPVM-103

* Confirmation sample collected w/OU6-SO-SPVM-103-0002.
* Also co-located duplicate taken at 0-2' #OU6-SO-SPVM DP05, DP06 (asbestos)

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPVM-104
PROJECT NO.:	N4106-0320	START DATE:	7/19/02 @ 1045
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/19/02 @ 1200
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							∂ 0.3 ft. asphalt			
1		1.8 / 2.0	OU6-SO-SPVM-104-0002 7/19/02 @ 1100	Sand (Fill)		Dark Brown	Sand – Trace Silt – Trace Gravel (Poorly graded, mostly f-m sand, f-c gravel	SP	Dry-moist, petroleum odor, asphalt, PACM noted @ ∂ 2.8 ft.	PID = 79.1 FID = 1.5
2						Grayish				
3		2.0 / 2.0	OU6-SO-SPVM-104-0204 7/19/02 @ 1110	(Fill)					Dry-moist, PACM noted @ 3.3 ft., green tiles in shoe, petroleum odor, free product globules on GW @ ∂ 1.6 ft. bgs.	PID = 0.0 FID = 4.3
4						Light Brown-Grayish				
5		2.0 / 2.0	OU6-SO-SPVM-104-0406 7/19/02 @ 1155	Sand (Fill)			Sand – Little Silt – Trace Gravel (Poorly graded, mostly M/C sand, f-c gravel)		Moist-wet, PACM noted, tiles noted in shoe	PID = 5.6 FID = 170
6 (1)				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.: SPVM-104	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 6.0 ft. bgs, unable to continue because free product was encountered. Sample collected for analysis.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPVM-105
PROJECT NO.:	N4106-0320	START DATE:	7/19/02 @ 1225
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/19/02 @ 1320
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.2 / 2.0	OU6-SO-SPVM-105-0002	Sand		Medium Brown/	Sand – Trace Silt – Trace Gravel (Poorly graded, mostly fine to med. sand, fine and coarse gravel).	SP	Dry-moist, no PACM noted or man-made material. (Fill)	PID = 10.5 FID = 5.7
2			7/19/02 @ 1245 DUP06 @ 1250			Black				
3		1.4 / 2.0	OU6-SO-SPVM-105-				Sand to approx. ∂ 3.4 ft. bgs		Moist-wet, PACM noted @ 3.4 ft. bgs. Tiles, brick fragments. (Fill)	PID = 0.0 FID = 350
4			7/19/02 @ 1255	~3.4' Sand, some Silt			3.4 – 4.0 ft. poorly graded fine sand, with some silt	SM		
5		1.2 / 2.0	OU6-SO-SPVM-105-0406			Medium Brown			Moist-wet, PACM noted @ 4.0-5.0 ft., larger tile fragments. (Fill) 5.0-5.5 ft. organics, peat, sulfur odor.	PID = 0.0 FID = 350
6 (1)			7/19/02 @ 1310	O. Silt/PT B.O.E.			Organic Silt, Peat - fine sand, w/silt	OL/PT		
							Refusal @ ∂ 5.5 ft. bgs, Peat encountered			

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.: SPVM-105	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 5.5. bgs, encountered refusal, natural material organic silts, peat observed, no PACM or Man-Made Material noted at bottom of sample

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPVM-106
PROJECT NO.:	N4106-0320			START DATE:	7/19/02
LOGGED BY:	G. Gardner	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/19/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)`]
0										
1		1.5 / 2.0	OU6-SO-SPVM-106-0002	1.2	Loose	Brown	Sandy Silt Loam (Topsoil)	SM	(Dry) Topsoil	PID = 10.5 FID = 0.0
2			7/19/02 @ 1300		Loose	Lt. Gray	Sand w/sea shells at base of sample	SM	Fill	
3		0.4 / 2.0	OU6-SO-SPVM-106-0204			Brown	Silty Sand-Some Broken Rock, Glass, PACM (asbestos)		(Dry)	PID = 0.0 FID = 0.0
4			7/19/02 @ 1310	~4.0						
5		2.0 / 2.0	OU6-SO-SPVM-106-0406		M. Dense (Stiff)	Dark Brown	Organic Clayey Silt – Some Sand – Some Root Fibers	OL	(Moist), natural soil	PID = 0.0 FID = 329
6			7/19/02 @ 1325							
							Bottom of Borehole 6'			

TYPE OF DRILLING RIG:	Geo-Probe 54LT - Track Mounted		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Macro-Core in Acetate Sleeve		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Located on grassed median between parking lot & road.	BORING NO.: SPVM-106	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	FBSWL-101
PROJECT NO.:	N4106	START DATE:	8/5/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/5/02
DRILLED BY (Company/Driller):	NA	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC./ SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		N/A	OU6-SO-FBSWL-101-0002 (1) 8/5/02 @1400	Organic Silt		Black	Organic Silt – Some Sand – Trace Gravel (mostly Silt and organic material, some fine sand, trace coarse sand).	OL/OH	Moist, PACM material noted in sample	PID 0.0 FID 1.5
2										
3		N/A	OU6-SO-FBSWL-101-0204 (1) 8/5/02 @1430							
4										0.0 5.2
5		N/A	OU6-SO-FBSWL-101-0406 (1) 8/5/02 @1500						Wet, No PACM noted from 5 – 6 ft.	
6							Organic Silt – Trace Sand (Mostly Silt and organics)			0.0 450
				B.O.E.						

TYPE OF DRILLING RIG:	N/A		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using Hand Auger		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H+S Instrument Group: B	BORING NO.: FBSWL-101	PAGE: 1 OF 1

1. Full Suite analytical collected
2. Bottom of Exploration (B.O.E.) at 6.0 ft. natural organic soils noted

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBSWL-102
PROJECT NO.:	N4106			START DATE:	8/5/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	8/5/02
DRILLED BY (Company/Driller):	N/A			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC./ SAMP LENG	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1			OU6-SO-FBSWL-102-0002	Silt with sand		Black	Silt – Some Sand – Trace Organics (Mostly silt with some fine to medium sand, trace coarse sand)	ML	Moist, PACM noted in sample. Organics came from surface.	PID 0.0 FID 0.0
2			8/5/02 @1600							
3			OU6-SO-FBSWL-102-0204						Very wet, sample is saturated. PACM + plastic poly noted.	
4			8/5/02 @1605							3.6 8.8
5			OU6-SO-FBSWL-102-0406	Organic Silt			Organic Silt – Trace Sand (Mostly Silt and organics, trace fine to coarse sand)	OL/OH	Wet, no PACM noted, soil appears to be natural	
6 (1)			8/5/02 @1615							10.2 7.3
				B.O.E.						

TYPE OF DRILLING RIG:	N/A
METHOD OF ADVANCING BORING:	Manual
METHOD OF SOIL SAMPLING:	Grab using Hand Auger
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	H+S Instrument Group: B

Tetra Tech NUS, Inc.

BORING NO.: FBSWL-102

1. Bottom of Exploration (B.O.E.) at 6.0 ft., no man-made materials noted in sample, soils appeared to be of natural origin

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBSWL-103
PROJECT NO.:	N4106			START DATE:	8/5/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	8/5/02
DRILLED BY (Company/Driller):	NA			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC./ SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1			OU6-SO-FBSWL-103-0002 (2) 8/5/02 @1630	Sand with Silt		Dark brown	Sand – Some Silt (Well graded sand, mostly fine to coarse sand, trace organics)	SW/SM	Moist, fill material noted, PACM material noted.	PID 0.0 FID 3.0
2										
3			OU6-SO-FBSWL-103-0204	Silt with Sand			Silt - Some Sand – Trace Gravel (Mostly silt, poorly graded F/M sand, trace organics)	ML	Wet, fill, PACM material noted in sample.	
4			8/5/02 @1645							0.0 10.0
5			OU6-SO-FBSWL-103-0406						Wet – no man-made material noted in bottom of sample.	
6 (1)			8/5/02 @1650	Organic Silt			Organic Silt – (Mostly Silt and organics)	OL/OH		0.0 400
				B.O.E.						

TYPE OF DRILLING RIG:	N/A		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using Hand Auger		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H+S Instrument Group: B	BORING NO.: FBSWL-103	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 6.0 ft., natural soils were encountered
2. Collected a co-located duplicate from 0-2 ft. interval

250 FERRY BOULEVARD

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING	BORING NO:	SP-SB3	
DATE START: 04/07/1994	DEPTH TO WATER: --	LOGGED BY: KJ	GROUND EL.:	6.90	
DATE COMPLETED: 04/07/1994	DATE & TIME: --/--/19-- / --	CHECKED BY:	TOTAL DEPTH:	13.30	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	6 14 29 25 (6 6 6 4)	22	11	Asphalt = 0-2in Interval= 0.1-2 Fill material	S-1 (11in) SILTY SAND, trace gravel, poorly graded met. rock frags., asphalt, brown.	
	2.0	S-2	13 14 50 (6 6 6)	18	16	Interval= 2-3.6 Fill material Hard advance.	S-2A (12in) SILTY SAND, some gravel, poorly graded rock frags., asphalt, charcoal cinkers, fiber pads, plant material, brown. S-2B (4in) FILL, man-made material, red-colored ceramic tile, wood chunks.	
	4.0	S-3	50 (6)	6	0	Interval= 4-4.5 Grinding augers Hard advance.	S-3 (0in) NO RECOVERY.	
	6.0	S-4	40 50 (6 6 6 6)	12	0	Interval= 6-7' Grinding augers Hard advance.	S-4 (0in) NO RECOVERY - pushed a cobble-sized piece of brick or slag material.	
	8.0	S-5	3 7 6 6 (6 6 6 6)	24	0	Interval= 8813' Hard advance. Augers grinding	S-5 (0in) NO RECOVERY.	
	10.0	S-6	21 50 (6 6)	12	12	Interval= 1011' Fill material. Grind/Hrd Advan	S-6 (12in) SILTY SAND, poorly graded, man-made fiber pads, large wood chunks, concrete, brick, dk brown to black. Note: Silty sand appeared smeared over fill material; resembled processed waste or sludge-like waste.	
	12.0	S-7	29 34 29 45 (6 6 6 5)	24	8	Interval= 1214' Fill material. Grind/Hrd Advan	S-7 (8in) FILL, man-made material, compressed fiber pads, wood chunks, fibers/stringers w/a smeared silty appearence, dk brown to black.	
	14.0	S-8	9 5 4 6 (6 6 6 5)	24	19	Interval= 1416' Possible nat. material	S-8 (19in) PEAT, organic soil, fibrous and dry plant/root matter, interbeds of silt, brown.	Pt

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-16Ft. Interupted attempt at cont. sampling to get through fill material. Difficult advance from surface to 14Ft. Driller advanced 3in split barrels w/140lb hammer to refusal, collected sample, and augered through the fill material to the next interval. Backfilled boring. Patched blacktop.

ACAD NAME:A:\SP-SB3.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING	BORING NO:	SP-S83	
DATE START: 04/07/1994	DEPTH TO WATER: --	LOGGED BY: KJ	GROUND EL.:	5.90	
DATE COMPLETED: 04/07/1994	DATE & TIME: --/--/19--/ --	CHECKED BY:	TOTAL DEPTH:	18.00	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	PID (ppm)
	16.0	S-9	8 6 3 4	6 6 6 6	24	24	Interval 16.8' Possible nat. material	S-9 (24in) PEAT, organic soil, similar to S-8. EOB @ 18 ft bgs. Backfilled boring. No well.	0
	18.0								

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock.
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-16ft. Interupted attempt at cont. sampling to get through fill material. Difficult advance from surface to 14Ft. Driller advanced 3in split barrels w/140lb hammer to refusal, collected sample, and augered through the fill material to the next interval. Backfilled boring. Patched blacktop.

ACAD NAME: RAYMARK\BORINGS_ALTERED\SP-S83_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING BORING NO: SP-SB4

DATE START: 04/07/1994 DEPTH TO WATER: -- LOGGED BY: MS GROUND EL.: 9.50

DATE COMPLETED: 04/07/1994 DATE & TIME: --/--/19-- -- CHECKED BY: TOTAL DEPTH: 14.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	3 9 14 17 / 6 6 6 6	24	0	Interval= 0.0-2 Asphalt 0-2in	S-1 (0in) NO RECOVERY, cobble in end of spoon.	
	2.0	S-2	6 9 14 9 / 6 6 6 6	24	5	Interval= 0204'	S-2 (5in) SILTY SAND, some gravel, well graded, brown.	SM
	4.0	S-3	15 7 6 12 / 6 6 6 6	24	12	Interval= 0406' Fill material	S-3A (0-6in) SILTY SAND, well graded, similar to S-2.	SM
							S-3B (6-12in) SANDY SILT, fibrous material, plastic-like material, dk brown.	SM
	6.0	S-4	6 6 4 4 / 6 6 6 6	24	6	Interval= 0608'	S-4 (6in) SILTY SAND, gravels to 1in, well graded, lt brown.	SM
	8.0	S-5	4 4 4 3 / 6 6 6 6	24	18	Interval= 0810' Fill material	S-5 (18in) SANDY SILT, fibers throughout, dk brown	SM
	10.0	S-6	3 3 5 4 / 6 6 6 6	24	24	Interval= 1012' Fill material	S-6 (24in) SANDY SILT, fibers throughout, red brick chips.	ML-SM
	12.0	S-7	3 3 4 4 / 6 6 6 6	24	24	Interval= 1214' Possible nat. material	S-7A (0-8in) SANDY SILT, similar to S-6.	SM-ML
							S-7B (8-24in) SILT, organics (roots), black.	ML-OH
	14.0						EOB @ 14ft bgs. Backfilled boring.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-12ft. Performed continuous sampling w/3in split-barrels and 140lb hammer to 14 Ft bgs. Screen samples for Pb,Cu,PCB,Asbestos. Possible natural material at 12-14ft interval. Backfilled boring. NM/NR= Not measured or recorded on log.

ACAD NAME: RATHARK\BORINGS_ALTERED\SP-SB4.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0898 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING BORING NO: SP-SB8

DATE START: 05/31/1994 DEPTH TO WATER: -- LOGGED BY: BV GROUND EL.: 7.90

DATE COMPLETED: 05/31/1994 DATE & TIME: --/--/19--/ -- CHECKED BY: TOTAL DEPTH: 14.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	14 6 21 6	12	12	Interval= 0002'	S-1A (4in) ASPHALT SURFACE S-1B (8in) AGGREGATE - sand, silty sand, rock.	
	2.0	S-2	25 6 25 6 17 6 19 6	24	24	Interval= 0204'	S-2 SAND, various colors, pebble, rock frags.	
	4.0	S-3	13 6 13 6 34 6 26 6	24	24	Interval= 0406'	S-3 SAND, some gravel, poorly graded, rock frags., various colors.	
	6.0	S-4	7 6 10 6 12 6 6 6	24	12	Interval= 0608'	S-4 SAND, little gravel, few clay, rock frags.	
	8.0	S-5	9 6 5 6 6 6 7 6	24	3	Interval= 0810' Rock jammed in spoon.	S-5 CLAYEY SAND, oil-like covering, possibly start of peat layer.	
	10.0	S-6	1 6 3 6 3 6 2 6	24	3	Interval= 1012' Rock jammed in spoon.	S-6 Black clayey-like material with organic matter including shell fragments. Start of peat.	
	12.0	S-7	3 6 3 6 3 6 3 6	24	24	Interval= 1214'	S-7 SILT, organic matter (peat), brown to black. EOB @ 14ft bgs. Backfilled boring.	
	14.0							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-12ft. Performed continuous sampling w/3in split-barrels and 140lb hammer 0-14 Ft bgs Screen samples for: Pb,Cu,PCB,Asbestos. Possible natural material at 10-12ft interval. Backfilled boring. NM/NR= Not measured or recorded on log.

ACAD NAME: RAYMARK\BORINGS_ALTERED\SP-SB8.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING BORING NO: SP-SB9

DATE START: 05/03/1994 DEPTH TO WATER: -- LOGGED BY: BW GROUND EL.: 8.60

DATE COMPLETED: 05/03/1994 DATE & TIME: --/--/19--/ -- CHECKED BY: TOTAL DEPTH: 14.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	1.0	S-1	15 17	6 6	12	12	Interval= 1-2' Asphalt=0-4in Aggregate=4-8in	S-1 (12in) SAND, possible asbestos (reddish paper) pebbles, few rock frags.	
	2.0	S-2	17 25 69 37	6 6 6 6	24	24	Interval= 02Sd' Fill material	S-2 (24in) SAND, pebbles, brick, broken broke shoes (?)	
	4.0	S-3	7 9 11 12	6 6 6 6	24	12	Interval= 0406'	S-3 (12in) SAND, poorly graded, pebbles, shell material	SP
	6.0	S-4	15 6 7 2	6 6 6 6	24	12	Interval= 0608' Possible nat. material	S-4 (12in) clayey SAND, poorly graded, rock frags, root-like vegetation. Possible start of peat	SP
	8.0	S-5	5 2 3 4	6 6 6 6	24	10	Interval= 0810'	S-5 (10in) CLAYEY SAND, poorly graded, pebbles, minor amt of vegetation.	
	10.0	S-6	1 2 1 2	6 6 6 6	24	24	Interval= 1012'	S-6 (24in) Clayey-like material, gray-black with areas of red and roots. Peat layer.	Pt
	12.0	S-7	3 4 3 5	6 6 6 6	24	24	Interval= 1214'	S-7 (24in) Clayey-like material mixed w/roots and vegetation, peat, gray to reddish black. EOB @ 14ft bgs. Backfilled boring.	Pt
	14.0								

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; gaining time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,1-12ft. Performed continuous sampling w/3in split-barrels and 140lb hammer 1-14 ft bgs Screen samples for: Pb,Cu,PCB,Asbestos. Possible natural material at 6-8ft interval. Backfilled boring. NM/NR= Not measured or recorded on log. "Soil" column may contain process wastes which give soils a highly plastic character.

ACAD NAME: RAYMARK\BORINGS_ALTERED\SP-SB9.DWG (8/25/99)

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPDPS-101
PROJECT NO.:	N4106-0300			START DATE:	6/26/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	6/26/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1			OU6-SO-SPDPS-101-0002	asphalt						FID PID
2			9/16/02							
3			OU6-SO-SPDPS-101-0204	Fill						
4			9/16/02							
5			OU6-SO-SPDPS-101-0406							
6			9/16/02							
7			OU6-SO-SPDPS-101-0608							
8			9/16/02							
9			OU6-SO-SPDPS-101-0810							
10			9/16/02							
11		1.0 / 2.0	OU6-SO-SPDPS-101-1012				Top 0.2' – Fill material		Wet, no PACM noted in top 0.2 ft of sample	479 top .2'
12 [1]			6/26/02 @ 1310	Gravelly Sand		gray	Bottom 0.8'- poorly graded sand with gravel, mostly coarse sand with some gravel, trace silt	SP		231 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	geoprobe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: SPDPS-101

1. Bottom of Exploration (B.O.E.) @ 12.0 ft

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPDPS-102
PROJECT NO.:	N4106-0300	START DATE:	6/26/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/27/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.6 / 2.0	OU6-SO-SPDPS-102-0002	asphalt					Fill material, dry, glass, and trace asphalt noted	PID FID
2			6/26/02 @ 1345 *	Silt some sand	Loose	Gray black	Silt – Some Sand – Trace Gravel (Mostly silt, some fine sand, trace coarse sand and gravel)	ML		0.0 1100
3		0.9 / 2.0	OU6-SO-SPDPS-102-0204						Fill material, fractured rock, trace asphalt, moist	
4			6/26/02 @ 1420 *							0.0 378
5		2.0 / 2.0	OU6-SO-SPDPS-102-0406						Fill, PACM identified, reddish in color in large quantities	
6			6/26/02 @ 1450							0.01 1200
7		1.85 / 2.0	OU6-SO-SPDPS-102-0608						PACM identified, similar characteristics to previous interval	
8			6/26/02 @ 1520 *							0.0 750
9		Poor recovery	OU6-SO-SPDPS-102-0810 **						PACM identified, similar to previous	
10		0.6 / 2.0	6/26/02 @ 1545							6.0 725
11		1.2 / 2.0	OU6-SO-SPDPS-102-1012			Dark gray	(Some coarse sand, trace gravel)		PACM identified, no distinguishable pieces, fibers are noticeable throughout sample	
12			6/27/02 @ 0900 *	~12'						6.7 367
13		2.0 / 2.0	OU6-SO-SPDPS-102-1214	Organic Silt with sand		Dark brown	Organic Silt- Some Sand – Some Clay (Mostly organic material, silt)	OL/OH	No man-made materials identified in sample. Lots of organic materials in soil	
14 ***			6/27/02 @ 0955 *							7.1 850
15				B.O.E.						
16										

TYPE OF DRILLING RIG:	geoprobe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:		BORING NO.: SPDPS-102	PAGE: 1 OF 1

* Full analysis samples were collected at each interval, except where noted w/**

** VOC, SVOC, PCB, Asbestos only, poor recovery

*** Bottom of Exploration (B.O.E.) at 14.0 ft, no man-made materials identified in sample

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPDPS-103
PROJECT NO.:	N4106-0320	START DATE:	6/27/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/27/02
DRILLED BY (Company/Driller):	ADT/S. Przybylski	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1										PID FID
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14 (1)										
15			OU6-SPDPS-103-1416				Organic Clayey Silt – Some Sand. Mostly silt, organics, clay, and some fine sand	OL/OH	Strong sulfide odor. High organic material content. No man-made materials observed	
16 (2)			6/27/02 @ 1125	B.O.E.						1690 2401

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	

BORING NO.: SPDPS-103

Tetra Tech NUS, Inc.

1. Boring log starts at 14 ft per previous info provided by T. Dorgan of TtNUS, Inc.
2. Bottom of Exploration (B.O.E.) at 16 ft, no man-made materials identified in sample, possible natural soils encountered

280 FERRY BOULEVARD

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A2-SB01
PROJECT NO.:	N7491-0320		START DATE: 7-17-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 7-17-97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~9.5'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID ppm]
			OU3-A2-SB01-0002				0-3" = Asphalt			
0	12	1.3			Loose	Brown	3"-2" = gravelly SAND. TR. Silt, gravel is	SW	Loose, Fill.	8
	15	2.0			Med.					
	19		1115 S-1		Dense		Fine subrounded to 1." diam. SAND is f-c well graded.		Dry	
	12		-0204							
2	14	1.2							Trace Vit. clay	12
	10	2.0							Pipe or brick	
	8		1125 S-2						Dry, fill	
	2		-0406							
4	3	0.9			Very					0
	3	2.0			Loose				Black woven material @	
	3		1135 S-3						top of spoon abestos	
	4	1.55	-0608		Loose	Dark	FILL . SAND. Mostly f-m poorly graded. SAND few silt. TR	SP	Material below.	
6	5					Gray-br	Fine gravel largy quality of poss. Asbestos fibers.		Moist	35
	10	2.0								
	14		1145 S-4							
	1		-0810		Very Loose				Moist slightly less Asbestos	
8	1	2.0							material	18
	3	2.0								
	2		1230 S-5							
	1		-1012		Loose				In addition to loose	
10	5	1.0							asbestos one brake pad	35
	6	2.0							and gasket material	
	7		1240 S-6				brake pad + gasket material noted		noted saturated	
	1		-1214	12.3'			brake pad + gasket material noted			
12	7	0.8			Loose		peat brown fibrous vegiation debris + silt			
	4	2.0					1 piece brake pad		1 piece brake pad	85
	4		1250 S-7							
	1	1.5	-1416				asbestos material, red plastic			
14	5				Loose					
	5	2.0								
16	4		1300 S-8							

EOB @ 16'

TYPE OF DRILLING RIG:	CME-75
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	12'
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: A2-SB01

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A2-SB03
PROJECT NO.:	N7491-0320		START DATE: 7-18-97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 7-18-97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:	~10.0'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID ppm]
0	12	1.5	OU3-A2-SB03-0002			Brown	3" - Asphalt. 3" - 2' = SAND. mostly f-c well graded sand	SW	Fill. Dry + loose	0
	14 16	1.5	0740 S-1				1brake pad. Asbestos fibers noted from 1' bgs to 2'. Some fine gravel. TR. silt.			
2	6 9	1.7	-0204				SAND. mostly f-m poorly graded SAND.	SP	DAMD. Less asbestos	23
	9 6	2.0	0800 S-2				TR. fine gravel, TR. few silt. Less Asbestos than S-1.		One piece of wood.	
4	3 2	0.6	-0406			Brown	SAND. Mostly F-c well graded SAND.	SW	Dry-Damp.	18
	2 2	2.0	0810 S-3				Few little. Fine gravel TR. Asbestos.			
6	4 5	1.3	-0608				SAND. Similar to S-2. incld. f-coarse gravel	SP	SATURATED.	14
	19 10	2.0	0815 S-4							
8	4 7	2.0	-0810			Tan	SAND. Similar to S-3. No visable Asbestos.	SW		0
	5 5	2.0	0825 S-5							
10	6 6	1.8	-1012							
	3 1	2.0	0830 S-6							8 ppm
12	1 2	2.0	-1214	13.0'						
	1 2	2.0	0840 S-7	PEAT		Brown	PEAT @ 13' brown fabric no man-made debris noted. 1 piece fine rounded gravel		PEAT. No fill noted	14
14	WOH WOH	2.0	-1416							
16	WOH 1	2.0	0850 S-8			Red brown				36

TYPE OF DRILLING RIG:	CME-75 TRUCK MT.
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH A 300 LB HAMMER
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	1 HR LEVEL C

Tetra Tech NUS, Inc.

BORING NO.: A2-SB03

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0893 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING BORING NO: SP-S32

DATE START: 04/06/1994 DEPTH TO WATER: -- LOGGED BY: KJ GROUND EL.: 9.40

DATE COMPLETED: 04/06/1994 DATE & TIME: --/--/19--/ -- CHECKED BY: TOTAL DEPTH: 12.0

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	7 17 23 8 / 6 6 6 4	22	16	Interval= 0.0-2 Asphalt=0-2in Fill material	S-1 (16in) SILTY SAND, some gravel, poorly graded, met rock frags, concrete, asphalt, fibers, dk brown.	
	2.0	S-2	21 10 8 7 / 6 6 6 6	24	20	Interval= 0204' Fill material	S-2A (12in) SILTY SAND, some gravel, similar to S-1 w/ash&cinders, fibers, roots, dk brown. S-2B (8in) FILL, man-made material only, red-brown pressed fiber mats or pads.	
	4.0	S-3	4 17 24 31 / 6 6 6 6	24	14	Interval= 0406' Fill material	S-3A (7in) FILL, similar to S-2B. S-3B (7in) SILTY SAND, some gravel, poorly graded, met. rock frags, quartz pebble frag., brown.	
	6.0	S-4	6 6 7 7 / 6 6 6 6	24	0	Interval= 0608' NO RECOVERY.	S-4 (0in) NO RECOVERY, pushed large pebble.	
	8.0	S-5	5 4 3 4 / 6 6 6 6	24	24	Interval= 0810' Possible nat. material.	S-5 (24in) ORGANIC SILT, trace gravel, trace clay, plant fibers, twigs, rock frags., dk brown to black.	OL
	10.0	S-6	2 2 3 2 / 6 6 6 6	24	24	Interval= 1012' Possible nat. material.	S-6 (24in) ORGANIC SILT, trace gravel, trace clay, similar to S-5. EOB @ 12Ft bgs. Backfilled boring. No well.	OL
	12.0							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler: coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25inID HSA,0-10Ft. Performed continuous sampling in 2Ft increments below asphalt w/3in split-barrels and 140lb hammer, 0-12Ft. Screen samples for: Pb,Cu,PCB, Assestos. Possible natural material at 8Ft bgs. NM/NR= Not measured or recorded on log. Backfilled borehole. Patched asphalt.

ACAD NAME: RAYMARK\BORINGS_ALTERED\SP-S32.DWG (8/25/99)

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPHM-101
PROJECT NO.:	N4106-0320	START DATE:	7/9/02 @ 0825
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/9/02 @ 1300
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA						± 4.5" Asphalt				
1		1.8 / 2.0	OU6-SO-SPHM-101-0002 @0850/MS/MSD Collected	Sand (Fill)		Medium brown	Sand – Some Gravel – Trace Silt (Well graded, mostly fine to coarse sand, fine and coarse gravel, trace silt).	SW	Dry-moist, no PACM noted, rock fragments, no man-made material noted except small piece of geotextile fabric		
2							- Finer material (sand with silt) bottom 0.5 ft	SP/SM		5.0	5.0
3		2.0 / 2.0	OU6-SO-SPHM-101-0204 @ 0930 Dup. 04 @ 0940			Medium-dark brown	Sand – Some/Little Silt – Trace Gravel (Poorly graded, mostly fine to medium sand).	SP/SM	Moist, PACM, white fibrous material, brick fragments, reddish soil noted, piece of wood		
4						Greenish reddish	Bottom 0.9-ft increased percent of fine sand with silt			340.0 100.0	0.1
5		2.0 / 2.0	OU6-SO-SPHM-101-0406 7/9/02 @ 1030			Medium-dark brown	Sand – Some Silt – Trace Gravel (Poorly graded, mostly fine to medium sand, fine gravel).	SM	Moist-wet, PACM noted, rock fragments		
6										850	25.1
7		1.8 / 2.0	OU6-SO-SPHM-101-0608 7/9/02 @ 1125				- Similar material classification as 4-6 ft interval		Moist-wet, PACM noted, rock fragments		
8										1300	0.0
9		2.0 / 2.0	OU6-SO-SPHM-101-0810 7/9/02 @ 1200			Medium-dark brown	- Similar material classification as 6-8 ft interval, with trace organics		Moist-wet, PACM noted, rock fragments, organics noted, roofing shingle		
10						Reddish				722	0.0
11		1.4 / 2.0	OU6-SO-SPHM-101-1012 7/9/02 @ 1220			Medium-dark brown			Moist-wet, PACM noted, rock fragments, trace organics noted		
12										1400	0.0
13		1.6 / 2.0	OU6-SO-SPHM-101-1214 7/9/02 @ 1245			Dark brown	- Similar material classification as 10-12 ft interval.		Saturated, PACM noted, brake pad, bottom 0.5' - organics, sulfur odor		
14 [1]				~13.5' Organics B.O.E.			Bottom 0.5 ft saturated, organics identified as a meadow/marsh bottom	PT		150	0.0

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Monitoring equipment Group: B

BORING NO.: SPHM-101

Tetra Tech NUS, Inc.

At the marina, fiberglass pieces were observed on the pavement, and spraying of fiberglass material was noted.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPHM-102
PROJECT NO.:	N4106-0320	START DATE:	7/9/02 @ 1310
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/9/02 @ 1500
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0											
1	NA	1.6 / 2.0	OU6-SO-SPHM-102-0002	Sand and Gravel (Fill)		Light medium brown	Sand – Some Gravel – Trace Silt (Well graded, mostly fine to coarse sand, fine and coarse gravel).	SW	Dry-moist, PACM noted, pieces of asphalt, rock fragments, brick fragments		
2			7/9/02 @ 1320							0.0	0.0
3		1.9 / 2.0	OU6-SO-SPHM-102-0204	Sand some Silt (Fill)		Medium brown	Sand – Some/Little Silt – Trace Gravel (Poorly graded, mostly fine to medium sand, fine and coarse gravel).	SP/SM	Moist PACM noted, asphalt pieces, red tint to soil		
4			7/9/02 @ 1330							67.3	0.0
5		1.9 / 2.0	OU6-SO-SPHM-102-0406				- Similar material classification as 2-4 ft interval with trace organics		Moist PACM noted, asphalt pieces ± 1", trace organics * FID not available @ interval waiting for new FID *		
6			7/9/02 @ 1350							*NA	0.0
7		2.0 / 2.0	OU6-SO-SPHM-102-0608				- Similar material classification as 4-6 ft interval		Moist, PACM noted, ± 1.5" pieces		
8			7/9/02 @ 1400						** New FID Group A	**865	0.0
9		1.6 / 2.0	OU6-SO-SPHM-102-0810						Moist, PACM fibers noted, piece of rubber		
10			7/9/02 @ 1415				- with trace fine gravel			**1175	0.0
11		1.1 / 2.0	OU6-SO-SPHM-102-1012			Dark brown			Moist, 0.8 ft of PACM noted, large pieces of PACM ± 2", noted red soil		
12			7/9/02 @ 1430	~11.5'		Grayish	Bottom 0.5 ft mostly fine sand with silt, moist-wet			**1924	0.0
13 (1)		1.0 / 2.0	OU6-SO-SPHM-102-1214 7/9/02 @ ?	Sand some Silt			Sand – Some/Little Silt (Poorly graded, mostly fine sand)		Saturated, no PACM noted, no man-made material noted		
				B.O.E.						NA	NA

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Monitoring equipment Group B, FID Group B failed @ 4-6 ft interval. New FID Group A beginning @ 6-8 ft interval

BORING NO.: SPHM-102

Tetra Tech NUS, Inc.

1. Bottom of Exploration (B.O.E.) at 13.0 ft bgs, fine sand with silt, grayish/green, no man-made material noted

BORING LOG FOR:	Raymark OU6		BORING NO.: SPHM-103
PROJECT NO.:	N4106-0320		START DATE: 7/9/02 @ 1530
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/9/02 @ 16
DRILLED BY (Company/Driller):	ADT/Mike		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1	NA	1.5 / 2.0	OU6-SO-SPHM-103-0002	Sand some Gravel		Medium brown	Sand – Some Gravel – Trace Silt (Well graded, mostly fine to coarse sand, coarse gravel).	SW	Dry-moist, no PACM noted, no man-made material noted	FID PID
2			7/9/02 @ 1545							57.1 0.0
3		1.7 / 2.0	OU6-SO-SPHM-103-0204	~3'		Medium brown			Dry-moist, no PACM noted, no man-made material noted, sea shell fragments	
4			7/9/02 @ 1555	Sand some Silt		Medium dark brown	- Mostly fine sand with silt @ 3.0 ft	SP/SM		1500 0.0
5		1.7 / 2.0	OU6-SO-SPHM-103-0406			Greenish gray	Sand – Little/Some Silt – (Poorly graded, mostly fine sand with silt beginning @ 5.0 ft bgs).		Wet saturated, no PACM, no man-made material	
6 (1)			7/9/02 @ 1600							657 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring equipment FID (A) PID (B)	BORING NO.: SPHM-103	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 6.0 ft bgs, fine sand with silt, greenish/gray @ 5.0 ft, saturated, no man-made material noted

300 FERRY BOULEVARD

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW111M		
DATE START: 04/29/1994	DEPTH TO WATER: 9.85	LOGGED BY: DM	GROUND EL.: [illegible]80		
DATE COMPLETED: 04/29/1994	DATE & TIME: 05/16/1994/1455	CHECKED BY:	TOTAL DEPTH: 35.50		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A				Auger to 10'. Pull augers.10" casing to 10Ft.	SEE BORING LOG SP-MW111D FOR ALL SOIL AND ROCK DESCRIPTIONS.	
	10.0	B				Spin&Wash tech. Telesc.6in cas. Advance to 35.5		

LEGEND:

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN – Penetration length of sampler
REC – Length of sample recovered
▽ – Natural groundwater table

NOTES:

MW111M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW111D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\MW111M_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO	BORING NO: SP-MW111M		
DATE START: 04/29/1994	DEPTH TO WATER: 9.85	LOGGED BY: DM	GROUND EL.: [illegible]		
DATE COMPLETED: 04/29/1994	DATE & TIME: 05/16/1994 1455	CHECKED BY:	TOTAL DEPTH: 25.50		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16						NO RESULTS THIS PAGE	
	32							

LEGEND:

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN – Penetration length of sampler
REC – Length of sample recovered
▽ – Natural groundwater table

NOTES:

MW111M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW111D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\MW111M_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0891	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW111M		
DATE START: 04/29/1994	DEPTH TO WATER: 9.85	LOGGED BY: DM	GROUND EL.: 0.80		
DATE COMPLETED: 04/29/1994	DATE & TIME: 05/16/1994 /1455	CHECKED BY:	TOTAL DEPTH: 35.50		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	35.5	C					EOB @ 35.5Ft. Set well. See well log.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW111M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW111D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\MW111M_C.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 6894	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SB-MW111D
DATE START: 04/26/1994	DEPTH TO WATER: 9.44	LOGGED BY: DM	GROUND EL.: 0.50
DATE COMPLETED: 04/27/1994	DATE & TIME: 05/16/1994/1455	CHECKED BY:	TOTAL DEPTH: 91.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	USCS
	0.0	S-1	3 4 6 4	6 6 6 6	24	12	Interval= 0012' HSA 0-10', 10in casing, 0-10'.	S-1 (12in) SAND, some gravel, well graded. Note Augers stopped at 10ft due to potential confining layer. Pulled augers, readvanced w/10in casing to 10ft. Spin & wash drill method.	SW
	2.0	S-2	10 11 11 9	6 6 6 6	24	3	Interval= 0204'	S-2 (3in) SAND, similar to S-1.	SW
	4.0	S-3	6 9 6 7	6 6 6 6	24	15	Interval= 0406'	S-3 (15in) SILTY SAND, some gravel, dk brown.	SM
	6.0	S-4	3 3 3 15	6 6 6 6	24	7	Interval= 0608' Poss. H20 table	S-4 (7in) SILTY SAND, one piece of aggregate to 2 in, dk brown.	SM
	8.0	S-5	7 15 7 4	6 6 6 6	24	20	Interval= 0810'	S-5 (20in) SANDY CLAY, fine clay, well graded sand, one aggregate to 1.5in, dk brown.	SC
	10.0	S-6	3 3 3 5	6 6 6 6	24	22	Telesc.8in casing 10'Advance via spin & wash	S-6 (22in) CLAY, trace sand, organic material, dk brown to black.	CL
	12.0	S-7	4 3 3 2	6 6 6 6	24	6	Interval= 1214'	S-7 (6in) SANDY CLAY, clay w/well graded sand, trace gravel, lt brown.	SC
	14.0	S-8	5 5 5 6	6 6 6 6	24	9	Interval= 1416'	S-8 (9in) SANDY CLAY, similar to S-7.	SC

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/HSA,0-14ft to confining layer. Pull augers Replace w/10in casing to 10ft, telescope 8in casing at 10'& advance to EOB. Perform contin. & stnd. sampling. Primarily advance 3in split-barrels, except where noted,w/140lb hammer Pot. H20 table @ 6-8ft. Top of confining layer @ 10' Screen samples:Pb,Cu,PCB,Asb. Spin&Wash tech. Well screen 89-79ft

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW111D_A.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: SB-MW111D

DATE START: 04/26/1994 DEPTH TO WATER: 9.44 LOGGED BY: DH GROUND EL.: 10.50

DATE COMPLETED: 04/27/1994 DATE & TIME: 05/16/1994/1455 CHECKED BY: TOTAL DEPTH: 50.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	20 6 20 6 15 6 16 6	24	10	Interval= 1618'	S-9 (10in) CLAYEY SAND, well graded sand, some clay, trace silt, one piece aggregate, dk brown	SC
	18.0	S-10	21 6 12 6 32 6 39 6	24	0	Interval= 1820' NO RECOVERY.	S-10 (0in) NO RECOVERY.	
	20.0	S-11	23 6 39 6 39 6 50 6	24	14	Interval= 2022'	S-11 (14in) GRAVEL, some well graded sand, trace silt, gray.	GW
	22.0	S-12	130 3	3	2	Inter.=22-22.25 Advance to 27ft Start stnd smpl	S-12 (2in) GRAVEL, some well graded sand.	GW
	27.0	S-13	13 6 14 6 16 6 15 6	24	12	Interval= 2729'	S-13 (12in) SAND, Fine-medium sand, poorly graded, trace silt, trace gravel, one piece 2in aggregate, dark gray	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/HSA,0-14ft to confining layer. Pull augers Replace w/10in casing to 10ft, telescope 8in casing at 10'& advance to EOB. Perform contin. & stnd. sampling. Primarily advance 3in split-barrels, except where noted,w/140lb hammer Pot. H20 table @ 6-8ft. Top of confining layer @ 10' Screen samples:Pb,Cu,PCB,Asb. Spin&Wash tech. Well screen: 89-79ft

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	SP-MW11D	
DATE START: 04/26/1994	DEPTH TO WATER: 9.44	LOGGED BY: DH	GROUND EL.:	10.50	
DATE COMPLETED: 04/27/1994	DATE & TIME: 05/16/1994/1455	CHECKED BY:	TOTAL DEPTH:	90.00	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	32.0	S-14	21 6 39 6 29 6 15 6	24	5	Interval= 32-34'	S-14 (5in) SAND, similar to S-13 w/more gravel, and dk brown color.	SP
	37.0	S-15	66 6 59 6 42 6 23 6	24	0	Interval= 37-39' NO RECOVERY.	S-15 (0in) NO RECOVERY.	
	42.0	S-16	100 4	4	0	Inter.=42-42.33 NO RECOVERY	S-16 (0in) NO RECOVERY.	
	47.0	S-17	66 6 52 6 41 6 39 6	24	0	Interval= 47-49' NO RECOVERY.	S-17 (0in) NO RECOVERY. 3in sub-aggregate piece wedged in mouth of sampler.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler: coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/HSA,0-14ft to confining layer. Pull augers Replace w/10in casing to 10ft, telescope 8in casing at 10'& advance to EOB. Perform contin. & stnd. sampling. Primarily advance 3in split-barrels, except where noted,w/140lb hammer Pot. H20 table @ 6-8Ft. Top of confining layer @ 10' Screen samplesPb,Cu,PCB,Asb. Spin&Wash tech. Well screen 69-79ft

ACAD NAME:A:\MW11D_C.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SB-MW111C		
DATE START: 04/26/1994	DEPTH TO WATER: 9.44	LOGGED BY: DM	GROUND EL.: 10.50		
DATE COMPLETED: 04/27/1994	DATE & TIME: 05/16/1994/1455	CHECKED BY:	TOTAL DEPTH: 81.30		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	47.0	S-17	66, 58, 41, 39 / 6, 6, 6, 6	24	0	Interval= 4749' NO RECOVERY.	S-17 (0in) NO RECOVERY, 3in sub-aggregate piece wedged in mouth of sampler.	
	52.0	S-18	100/2	2	0	Inter.=52-52.17 NO RECOVERY	S-18 (0in) NO RECOVERY, large (>3in across) cobble wedged at mouth of spoon.	
	57.0	S-19	8, 19, 20, 15 / 6, 6, 6, 6	24	1	Interval= 5759'	S-19 (1in) GRAVEL, poorly graded, mostly fine gravel some sand, trace silt.	GP
	60.0	S-20	20, 31, 40, 44 / 6, 6, 6, 6	24	14	Interval= 6062' Cont. sampling 60-64'.	S-20 (14in) SAND, well graded, trace silt, lt brown.	SW
	62.0	S-21	54, 29, 34, 45 / 6, 6, 6, 6	24	12	Interval= 6264'	S-21 (12in) SAND, similar to S-20.	SW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
W - Natural groundwater table

NOTES:

Advanced boring w/HSA,0-14ft to confining layer. Pull augers Replace w/10in casng to 10ft, telescope 8in casing at 10'& advance to EOB. Perform contin. & stnd. sampling. Primarily advance 3in split-barrels, except where noted,w/140lb hammer Pot. H20 table @ 6-8Ft. Top of confining layer @ 10' Screen samples:Pb,Cu,PCB,Asb. Spin&Wash tech. Well screen 89-79ft

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW111D_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SB-MW111D		
DATE START: 04/26/1994	DEPTH TO WATER: 9.44	LOGGED BY: DM	GROUND EL.: 10.50		
DATE COMPLETED: 04/27/1994	DATE & TIME: 05/16/1994/1455	CHECKED BY:	TOTAL DEPTH: 90.20		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	67.0	S-22	56 / 69 / 75 / 71	6 6 6 6	24	0	Lose H20 to FM. NO RECOVERY. Resume stnd spn	S-22 (0in) NO RECOVERY. Note: At 69ft, all water in the wash tub went into the boring and was lost. Drillers had to refill the borehole.	
	72.0	S-23	100	2	2	0	Interval 72-72.16 NO RECOVERY.	S-23 (0in) NO RECOVERY.	
	77.0	S-24	44 / 51 / 23 / 83	6 6 6 6	24	14	Interval= 77-79'	S-24 (14in) SAND, well graded, some gravel, trace silt, lt brown/tan.	SW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/HSA,0-14ft to confining layer. Pull augers Replace w/10in casing to 10ft, telescope 8in casing at 10'& advance to EOB. Perform contin. & stnd. sampling. Primarily advance 3in split-barrels, except where noted,w/140lb hammer Pot. H20 table @ 6-8ft. Top of confining layer @ 10' Screen samples:Pb,Cu,PCB,Asb. Soin&Wash tech. Well screen 89-79ft

ACAD NAME:A:\MW111D_E.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 6898	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SB-MW111D		
DATE START: 04/26/1994	DEPTH TO WATER: 9.44	LOGGED BY: DH	GROUND EL.: 10.50		
DATE COMPLETED: 04/27/1994	DATE & TIME: 05/16/1994/1455	CHECKED BY:	TOTAL DEPTH: 90.00		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	82.0	S-25	100/4	4	0	Inter.=82-82.33 NO RECOVERY	S-25 (0in) NO RECOVERY.	
	87.0	S-26	100/8	8	0	Inter.=87-87.7' 3in barrel used NO RECOVERY.	S-26 (0in) NO RECOVERY. Note: Resumed continuous sampling 87.7-89.7ft.	
	87.7	S-27	24 (15 5 9 7) / 6 (6 6 6 6)	24	18	Interval= 87-89' 2in barrel used Advance to 90'	S-27 (18in) SAND, poorly graded, trace silt, lt brown.	SP
	90.0	S-28	100/1	1	0	Inter.=90-90.08 NO RECOVERY Top of rock	S-28 (0in) NO RECOVERY, bedrock @ 90ft bgs. EOB @ approx. 90 ftbgs. Set well, see log.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/HSA,0-14ft to confining layer. Pull augers Replace w/10in casing to 10ft, telescope 8in casing at 10'& advance to EOB. Perform contn. & stnd. sampling. Primarily advance 3in split-barrels, except where noted,w/140lb hammer Pot. H20 table @ 6-8ft. Top of confining layer @ 10' Screen samplesPb,Cu,PCB,Asb. Sand&Wash tech. Well screen 89-79ft

ACAD NAME:A:\MW111D_F.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SP-MW112M

DATE START: 04/19/1994 DEPTH TO WATER: 3.90 LOGGED BY: DH GROUND EL.: 7.15

DATE COMPLETED: 04/19/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: TOTAL DEPTH: 35.33

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16						NO RESULTS THIS PAGE	
	32							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW112M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW112B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\MW112M_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: SP-MW112M

DATE START: 04/19/1994 DEPTH TO WATER: 3.90 LOGGED BY: DH GROUND EL.: [illegible]

DATE COMPLETED: 04/19/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: TOTAL DEPTH: 35.33

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	35.3	C					EOB @ 35.3 ft. Set well. See well log.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW112M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW112B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\MW112M_C.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW1123		
DATE START: 04/11/1994	DEPTH TO WATER: 3.58	LOGGED BY: KJ,DM	GROUND EL.: 7.00		
DATE COMPLETED: 04/18/1994	DATE & TIME: 05/16/1994/1445	CHECKED BY:	TOTAL DEPTH: 43.00		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	10 13 6 / 6 6	18	10	Fill material. Asphalt=0-2in. Drill @ 0.5ft.	S-1 (10in) SILTY SAND, some gravel, poorly graded, asphalt, concrete, fibers, brick, dk brown/black.	
	2.0	S-2	6 7 9 5 / 6 6 6 6	24	18	Interval= 0204' Fill material.	S-2 (18in) SILTY SAND, some gravel, similar to S-1 w/similar fill and ceramic-like tiles, root matter	
	4.0	S-3	10 3 10 4 / 6 6 6 6	24	18	Interval= 0406' Fill material.	S-3 (18in) SILTY SAND, some gravel, similar to S-2 w/similar fill and lots of fibers, fiber pads, matted material.	
	6.0	S-4	2 5 8 7 / 6 6 6 6	24	16	Interval= 0608' Fill material.	S-4 (16in) SILTY SAND, some gravel, similar to S-3	
	8.0	S-5	3 4 3 4 / 6 6 6 6	24	18	Interval= 0810' Fill material. Natural contact 8.5' = base of fill	S-5A (15in) SILTY SAND, trace gravel, fibers, coal or charcoal, black.	
							S-5B (3in) PEAT, organic material, some silt, fibrous plant matter, roots, reeds, twigs, dry, brown.	Pt
	10.0	S-6	2 2 2 3 / 6 6 6 6	24	16	Interval= 1012' Natural soil. See note.	S-6 (16in) PEAT, similar to S-5B w/ 2in thick interbed of silt at top of split-barrel, dk brown.	Pt
							Note: HSA to 10ft; pulled augers and installed 10 in casing (spin&wash). Telescoped and advanced 8in casing to 32ft.	
	12.0	S-7	6 3 3 5 / 6 6 6 6	24	14	Interval= 1214' Pot. H20 table.	S-7 (14in) PEAT, similar to S-6 w/o silt interbed.	Pt
	14.0	S-8	2 2 3 3 / 6 6 6 6	24	24	Interval= 1416'	S-8 (24in) PEAT/ORGANIC SILT, fibrous plant and root matter w/some silt, dk brown.	Pt/OL

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
∇ - Natural groundwater table

NOTES:

Advanced boring w/4.25&6.25in ID HSA to 10ft, a pot. conf. layer. Pull augers. Advance 10in casing to 10 ft. Telescope 8in casing & advance to 32ft. Telescope and advance 6in from 32 to 43ft. Spin&Wash technique. Cont. sampling mostly; rock @43ft. H20 @12-14'. Pot. nat. cntct. @8-10'. Screen for Pb, Cu,PCB,Asb. Core 20'. Packer test. Set well. Screen/37-47ft.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW1123_A.DWG (9/3/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 6898 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: SB-MW112B

DATE START: 04/11/1994 DEPTH TO WATER: 3.58 LOGGED BY: KJ,DM GROUND EL.: +0

DATE COMPLETED: 04/18/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: _____ TOTAL DEPTH: 47.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	5 6 6 / 6 11 6 / 6 13 6	24	0	Interval= 1618' NO RECOVERY.	S-9 (0in) NO RECOVERY. Base of peat = 16-Feet.	
	18.0	S-10	15 6 5 / 16 6 6 / 16 6 6 / 17 6 6	24	24	Interval= 1820'	S-10 (24in) SAND, some silt, trace gravel, trace organics, gray, poorly graded.	SM
	20.0	S-11	3 6 6 / 6 10 6 / 6 13 6	24	15	Interval= 2022'	S-11 (15in) SILTY SAND, poorly graded, gray.	SM
	22.0	S-12	18 6 6 / 23 6 6 / 33 6 6 / 35 6 6	24	18	Interval= 2224'	S-12A (15in) SILTY SAND, similar to S-11.	SM
							S-12B (3in) SAND, well graded, trace silt, light brown.	SW
	24.0	S-13	6 6 6 / 12 6 6 / 16 6 6 / 17 6 6	24	12	Interval= 2426'	S-13 (12in) SAND, similar to S-12B.	SW
	26.0	S-14	4 6 6 / 12 6 6 / 12 6 6 / 15 6 6	24	17	Interval= 2628'	S-14 (17in) SAND, similar to S-13, except coarser grained.	SW
	28.0	S-15	11 6 6 / 18 6 6 / 24 6 6 / 25 6 6	24	24	Interval= 2830'	S-15 (24in) SAND, poorly graded, trace silt.	SP
	30.0	S-16	9 6 6 / 18 6 6 / 25 6 6 / 46 6 6	24	16	Interval= 3032'	S-16 (16in) SAND, well graded, trace silt, trace gravel.	SW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; spring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25&6.25in ID HSA to 10ft, a pot. conf. layer. Pull augers. Advance 10in casing to 16 Ft. Telescope 8in casing & advance to 32ft. Telescope and advance 6in from 32 to 43ft. Spin&Wash technique. Cont. sampling mostly; rock @43ft. H20 @12-14'. Pot. nat cntct. @8-10'. Screen For Pb, Cu,PCB,Asb. Core 26'. Packer test. Set well. Screen37-47ft.

ACAD NAME: RATMARK\BORINGS_ALTERED\MW112B_3.DWG (9/3/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 6890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SP-MW112B

DATE START: 04/11/1994 DEPTH TO WATER: 3.58 LOGGED BY: KJ,DM GROUND EL.: ~33

DATE COMPLETED: 04/18/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: TOTAL DEPTH: 63.00

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	32.0	S-17	100/3	3	3	Inter.=32-32.25 Telesc.&advance 6in casing @32'	S-17 (3in) SAND, poorly graded, trace silt, trace fine gravel.	SP
	34.0	S-18	25 33 17 17 / 6 6 6 6	24	4	Inter.=32-32.25 Casing advan.to 34'after S-17.	S-18 (4in) SAND, poorly graded, trace silt, trace gravel, light brown.	SP
	36.0	S-19	31 28 31 29 / 6 6 6 6	24	6	Interval= 34-36'	S-19 (6in) SAND, poorly graded, trace coarse gravel.	SP
	38.0	S-20	46 35 30 32 / 6 6 6 6	24	12	Interval= 38-40'	S-20 (12in) GRAVEL, well graded, some sand.	GW
	40.0	S-21	100/5	5	5	Inter.=40-40.4' Adv.cas. to 42' past refusal	S-21 (5in) SAND, poorly graded, some fine gravel, trace flaky rock.	SP
	42.0	S-22	100/2	2	0	Inter.=42-42.16 Refusal likely bedrock surface	S-22 (0in) NO RECOVERY. Top of bedrock = 43.0-feet.	
	43.0	C-23		16	16	Run 1:43-44.3Ft RQD = 100%	C-23 (16in) Chlorite Mica Schist, dark green, red Note 6in casing seated in bedrock at 43 Ft. to coarse grained, foliated metamorphic rock. Weathered vertical fractures, calcite stringers, pyrite nodules, quartz veins, high angle schistosity common.	
	44.3	C-24		26	26	Run 2:44.3-46.5 RQD = 100%	C-24 (26.4in) Chlorite mica schist, similar to C-23.	
	46.5	C-25		42	42	Run 3:46.5-50Ft RQD = 100%	C-25 (42in) Chlorite mica schist, similar to C-24.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler: coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
@ - Natural groundwater table

NOTES:

Advanced boring w/4.25&6.25in ID HSA to 10Ft, a pot. conf. layer. Pull augers. Advance 10in casing to 10 ft. Telescope 6in casing & advance to 32ft. Telescope and advance 6in from 32 to 43Ft. Spin&Wash technique. Cont. sampling mostly: rock @43Ft. H20 @12-14'. Pot. nat. cntct. @8-10'. Screen for Pb, Cu,PCB,Asb. Core 20'. Packer test. Set well. Screen/37-47Ft.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW112B_C.DWG (9/3/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SB-MW11B

DATE START: 04/11/1994 DEPTH TO WATER: 3.58 LOGGED BY: KJ,DM GROUND EL.: ~~

DATE COMPLETED: 04/18/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: TOTAL DEPTH: 63.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	USCS
	46.5	C-25		42	42	Run 3:46.5-50ft RQD = 100%	C-25 (42in) Chlorite mica schist, similar to C-24.	
	50.0	C-26		108	108	Run 4: 50-59ft RQD = 100%	C-26 (108in) Chlorite mica schist, similar to C-25	
	59.0	C-27		48	48	Run 4: 59-63ft RQD = 100%	C-27 (48in) Chlorite mica schist, similar to C-26. EOC @ 63ft bgs. Perform packer test @ 46.3-63ft. No flow @ 20 psi(water),100psi(packer). Takes H20 (approx 2-3gal/min) @ 40psi(water), 100psi(packer) Ream hole w/6in rollerbit to 59.5ft. Backfill to 57ft. Install well. Set screen 57-47ft.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25&6.25in ID HSA to 10Ft, & pot. conf. layer. Pull augers. Advance 10in casing to 10 ft. Telescope 8in casing & advance to 32Ft. Telescope and advance 6in from 32 to 43ft. Soin&Wash technique. Cont. sampling mostly: rock @43ft. H20 @12-14'. Pot. not. cntct. @8-10'. Screen for: Pb, Cu,PCB,Ase. Core 20'. Packer test. Set well. Screen:57-47ft.

ACAD NAME:A:\MW11B_0.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0899 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SP-MW112

DATE START: 04/20/1994 DEPTH TO WATER: 3.90 LOGGED BY: DM GROUND EL.: 7.30

DATE COMPLETED: 04/20/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: TOTAL DEPTH: 42.50

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A				Auger 10', pull & advance 10in. casing to 10ft.	SOIL AND ROCK DESCRIPTIONS FOR DEPTHS 0-42.5FT CAN BE FOUND ON BORING LOG SP-MW112B.	
	10.0	B				Telescope 6in casing. Spin & Wash to 42.5ft.		

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW112D REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW112B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW112D_A.DWG (8/27/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SP-MW112D

DATE START: 04/20/1994 DEPTH TO WATER: 3.90 LOGGED BY: DH GROUND EL.: +30

DATE COMPLETED: 04/20/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: _____ TOTAL DEPTH: +2.50

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16						NO RESULTS THIS PAGE	
	32							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW112D REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW112B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW112D_B.DWG (8/27/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: SP-MW112D

DATE START: 04/20/1994 DEPTH TO WATER: 3.90 LOGGED BY: DM GROUND EL.: 120

DATE COMPLETED: 04/20/1994 DATE & TIME: 05/16/1994/1445 CHECKED BY: TOTAL DEPTH: 42.50

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	38.0	C				Roller bit is used and washed out.		
	42.5	D					EOB @ 42.5 Ft. Set well. See well log.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
∇ - Natural groundwater table

NOTES:

MW112D REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW112B FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW112D_C.DWG (8/27/99)

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPSC-101
PROJECT NO.:	N4106-0320			START DATE:	7/11/02 @ 1120
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/11/02 @ 1235
DRILLED BY (Company/Driller):	ADT/Mike			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ± Asphalt	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
1	NA	1.0 / 2.0	OU6-SO-SPSC-101-0002 7/11/02 @ 1135	(Fill) Sand		Medium brown	Sand – Trace Silt – Trace Gravel (Poorly graded, mostly fine to medium sand, fine and coarse gravel).	SP	Moist, PACM observed, white fibers, red flakes		
2										5.0	0.0
3		1.4 / 2.0	OU6-SO-SPSC-101-0204 7/11/02 @ 1145	Sand some Silt		Medium dark brown	Sand – Some/Little Silt – Trace Gravel (Fine sand, fine gravel.	SP/SM	Moist, PACM observed, fibrous material, and possible asphalt		
4										57.0	0.0
5		0.3 / 2.0	OU6-SO-SPSC-101-0406 7/11/02 @ 1150				Insufficient recovery to collect sample from 4-6 ft interval. Used basket for the 6-8 ft interval, in attempt to increase recovery		Wet, PACM observed		
6										NA	NA
7		1.2 / 2.0	OU6-SO-SPSC-101-0608 7/11/02 @ 1200				Sand – Some/Little Silt – Trace Gravel (Fine sand, fine gravel).	SP/SM	Moist-wet, PACM observed, Fill		
8										135	
9		1.8 / 2.0	OU6-SO-SPSC-101-0810						Moist-wet, PACM observed		
Confirmatory sample collected 10 (1)			7/11/02 @ 1230	~9.5' Organic silt with sand B.O.E. @10'			Bottom 0.5 ft - Organic Silt with root mass, sand	OL	Moist-wet, no PACM observed, organic material, root mass @ 9.5 ft	125	0.0

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring equipment FID (A) PID (B)	BORING NO.: SPSC-101	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 10 ft bgs, transition from PACM to natural material @ 9.5 ft bgs, no PACM noted, no man-made material, organics, root mass

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPSC-102
PROJECT NO.:	N4106-0320			START DATE:	7/17/02 @ 1100
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/17/02 @ 1220
DRILLED BY (Company/Driller):	ADT/Mike			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ± 0.2 ft asphalt	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
1	NA	1.6 / 2.0	OU6-SO-SPSC-102-0002	(Fill)		Medium-dark brown	Sand – Trace Silt – Trace Gravel (Well graded, mostly fine to coarse sand, fine and coarse gravel.	SW	Dry-moist, PACM @ 1.2 ft, coal, reddish material in shoe, fibrous		
2			7/17/02 @ 1115	Sand ~2'						37.0	0.0
3		1.5 / 2.0	OU6-SO-SPSC-102-0204				Sand – Some Silt – Trace Gravel – (Increased silt and fine sand, trace fine gravel, rock fragments)	SM	Moist, PACM noted throughout 2-4 ft interval, fibrous, brake pads		
4			7/17/02 @ 1130	Sand some Silt						182	0.0
5		2.0 / 2.0	OU6-SO-SPSC-102-0406				(Poorly graded sand, mostly fine to medium sand, with silt, trace fine gravel)		Moist, PACM noted throughout sample, fibrous		
6			7/17/02 @ 1135							35	0.0
7		1.6 / 2.0	OU6-SO-SPSC-102-0608	~7'		Medium brown			Moist, PACM noted throughout sample, fibrous, red flakes, shingles @ 6.5 ft (± 1.1 ft thick layer), ash		
8			7/17/02 @ 1150	Sand		Dark brown	Sand – Trace Silt – Trace Gravel (Well graded, mostly fine to coarse sand, gravel, shingles, ash)	SW		250	0.0
9		1.2 / 2.0	OU6-SO-SPSC-102-0810	~8.9'			8.3' – 8.9' concrete material		Wet-saturated, slight asphalt odor, fill material, concrete, PACM noted above organic silt layer @ 8.9 ft		
10 (1)			7/17/02 @ 1210	Organic Silt			8.9' – 9.2' Organic Silt – Some Sand – Trace Gravel (fine sand fine gravel, organics, wood)	OL/OH		116	0.0
				B.O.E.							

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring equipment FID (A) PID (B)	BORING NO.: SPSC-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 10.0 ft bgs, organic silts encountered, no PACM or man-made materials

* Approx. ± 8.9 ft bgs, PACM observed, transition to organic silts

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPSC-103
PROJECT NO.:	N4106-0320			START DATE:	7/11/02 @ 1025
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/11/02 @ 1050
DRILLED BY (Company/Driller):	ADT/Mike			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1	NA	1.7 / 2.0	OU6-SO-SPSC-103-0002	Sand		Medium-dark brown	± 4" asphalt Sand – Little Silt – Trace Gravel (Poorly graded, mostly fine to medium sand, fine and coarse gravel).	SP	Moist, no PACM	FID PID
2			7/11/02 @ 1035						* FID not functioning	*NA 0.0
3		1.6 / 2.0	OU6-SO-SPSC-103-0204	~3'					Moist-wet, no PACM, organic material (reeds) sulfur odor @ 3.5 ft	
4 (1)			7/11/02 @ 1045	Silty Sand Organics		Black, dark brown	Sand – Some Silt – (Poorly graded, mostly fine sand) Organics, transition from sand to organic @ 3.5 ft	SM		0.0 0.0

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring equipment FID (A) PID (A)	BORING NO.: SPSC-103	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 4.0 ft bgs, meadow/marsh bottom (natural layer) @ 3.5 ft bgs, no man-made material noted.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPSC-104
PROJECT NO.:	N4106-0320	START DATE:	7/1102 @ 1025
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/1102 @ 1050
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							± 4" asphalt			
1	NA	1.8 / 2.0	OU6-SO-SPSC-104-0002	Fill		Medium brown	Sand – Little Silt – Trace Gravel (Poorly graded, fine to medium sand, fine and coarse gravel)	SP	Moist, PACM noted	FID PID
2			7/11/02 @ 1400	Sand						19.2 0.0
3		1.9 / 2.0	OU6-SO-SPSC-104-0204	~3'		Medium dark brown	Sand – Little Silt – Trace Gravel (Poorly graded, fine to medium sand, fine gravel, trace organics)		Moist, PACM noted to approximately ± 3.0 ft, organics, sulfur odor	
4			7/11/02 @ 1415	Silty Sand			Increasing fine sand and silt, bottom 1.0 ft			13.0 0.0
5		1.9 / 2.0	OU6-SO-SPSC-104-0406				Silty Sand – Trace Gravel (Poorly graded, fine sand, trace decaying organics)	SM	Moist-wet, no PACM noted, decaying organic material, sulfur odor	
6 (1)			7/11/02 @ 1445							36.0 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring equipment FID (A) PID (A)	BORING NO.: SPSC-104	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 6 ft

LOT BEHIND 326 FERRY BOULEVARD

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A3-SB01
PROJECT NO.:	N7491-0320		START DATE: 8-5-97
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY: FMD	COMPLETION DATE: 8-5-97
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		MON. WELL NO.: RAC
GRD. SURFACE ELEVATION:	~9.50'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Root mat?	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	2		OU3-A3-SB01-0002				S-1a (0-6) SILT and PEAT topsoil (fibrous(org.)) nature	SM/			
	3	15				brown	w/some silt, trace fine sand, grass, roots, pot. asb. tiles.	PT	dry loose fill	0	0
	3	24					S-1b (6-15) silty SAND w/visible waste. pot. asb. tiles.				
2'	4		1403 S-1			brown	asphalt shingle material tar paper, glass, roots.	SM	dry loose fill	0	0
	3		-0204						pushed a rock. Lodged in spoon		
	3	5				brown	silty SAND. similar to above w/red brown fine SAND.	SM	Tip. Potential asbestos waste	0	0
	6	24							dry loose.		
4'	4		1415 S-2								
	1		-0406			red	S-3 SAND- mostly fine red-brown sand no bedding no		silty sand at top of barrel		
	2	20				brown	visible waste some med. sand.	SP	(2 in) dry loose.	44.2	23.8
	2	24									
6'	2		1420 S-3							12.2	0.3
	2		-0608			red	S-4 SAND - similar to above - mostly fine some med.				
	2	18				brown	sand red brown.	SP	saturated @ 14-18 inc.	0	0
	1	24									
8'	1		1430 S-4								
	1		-0810			red	S-5a (0-10) SAND - mostly fine sand fine med. sand				
	5	20				brown	no bedding.	SP	saturated	0	0
	8	24				red					
10'	15		1435 S-5			brown	S-5b (10-20) SAND f/c sand,well graded trace coarse gravel	SW	saturated	0	1.8
	15		-1012			red	S--6a (0-8) gravelly, SAND some coarse gravel	SW	saturated	0	0
	15	20				brown					
	12	24				brown	S-6b (8-14) SAND, trace silt, trace coarse gravel tr. med sand poorly graded	SW		0	0
12'	9		1440 S-6			brown	S-6c (14-20) gravel SAND similar to S-6a	SW	piece of gneiss or schist	0	0
	4		-1214				S-7 sandy GRAVEL – f/c sand, wg f/c gravel and rock frags.		pushing a cobble at end of barrel		
	12	10				brown	Broken, no bedding.	GW	gravel in spoon grinding	0	1.1
	26	24									
14	18		1550 S-7								
	12		-1416				S-8 sandy GRAVEL similar to above coarse pieces of gravel				
	15	23				brown	up to 3 in. and rock frag. quartzite no bedding SR gravel	GW	saturated	0	0
	18	24									
16'	16		1510 S-8								

EOB 16' – 12' w/augers

TYPE OF DRILLING RIG:	CME-850 ATV TRUCK MOUNT
METHOD OF ADVANCING BORING:	4.25' I D HSA 8" OD HSA
METHOD OF SOIL SAMPLING:	3" BARREL DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	WATER IN AUGERS @ 7.70 BGS – 1540 HRS
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: A3-SB01

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW1105		
DATE START: 05/02/1994	DEPTH TO WATER: 0.10	LOGGED BY: BW	GROUND EL.: 9.90		
DATE COMPLETED: 05/02/1994	DATE & TIME: 05/16/1994/1425	CHECKED BY:	TOTAL DEPTH: 32.00		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A					SEE BORING LOG SP-MW1100 FOR ALL SOIL AND ROCK DESCRIPTIONS.	
	15.0	B					EOB @ 32.0 Ft. Installed well See Construction Log for MF-MW1025	

LEGEND:

TYPE-NO. - Type of Sample
RC - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW1105 REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW1100 FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW1105.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW110M		
DATE START: 04/25/1994	DEPTH TO WATER: 6.40	LOGGED BY: DM	GROUND EL.: 9.70		
DATE COMPLETED: 04/25/1994	DATE & TIME: 05/16/1994 1425	CHECKED BY:	TOTAL DEPTH: 25.80		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A					SEE BORING LOG SP-MW110D FOR ALL SOIL AND ROCK DESCRIPTIONS.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
'2' - Natural groundwater table

NOTES:

MW110M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW110D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME: A:\MW-110M.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: SP-MW110M		
DATE START: 04/25/1994	DEPTH TO WATER: 6.40	LOGGED BY: DH	GROUND EL.: 9.70		
DATE COMPLETED: 04/25/1994	DATE & TIME: 05/16/1994 1425	CHECKED BY:	TOTAL DEPTH: 28.80		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-8				Telescope 6" Casing; Spin & Wash Technique		
	28.8	C					EOB @ 28.8 Ft. Installed Well See Construction Log for MF-MW102M	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Nearest groundwater table

NOTES:

MW110M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG SP-MW110D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS.

ACAD NAME:A:\MW-110M.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SP-MW-110D

DATE START: 04/18/1994 DEPTH TO WATER: 6.45 LOGGED BY: KJ GROUND EL.: 9.60

DATE COMPLETED: 04/18/1994 DATE & TIME: 05/16/1994/1425 CHECKED BY: TOTAL DEPTH: 55.00

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.5	S-1	13 11 10 / 6 6 6	18	15	Fill material. Asphalt = 2in Drill from 0.5'	S-1 (15in) SAND, some gravel, little silt, poorly graded, asphalt shingle pieces, charred wood or charcoal, dk brown. Note: HSA to 16ft; Pull augers and readvance 8in casing Spin&Wash to 16ft. Telescope 6in casing and advance to EOB.	SM
	2.0	S-2	15 15 17 13 / 6 6 6 6	24	18	Interval= 0204' Fill material.	S-2 (18in) SAND, some gravel, little silt, similar to S-1 w/slag.	SM
	4.0	S-3	9 4 4 5 / 6 6 6 6	24	15	Interval= 0406' Fill material.	S-3 (15in) SAND, similar to S-2 w/fired ceramic tiles, nails, charred wood or charcoal.	SM
	6.0	S-4	2 2 2 3 / 6 6 6 6	24	24	Interval= 0608' Fill material.	S-4 (24in) SILTY SAND, some gravel, poorly graded, white plastic (outlet cover?), plug, plant matter, dk brown.	SM
	8.0	S-5	2 2 2 4 / 6 6 6 6	24	22	Interval= 0810' Fill material.	S-5A (19in) SILTY SAND, similar to S-4 w/nails, plastic, asphalt shingles, pastey consistency, plant matter, dk brown.	SM
							S-5B (3in) PEAT, organic material, fibrous, roots, plant matter, dry, brown/red. Note: not likely natural contact; potential fill material.	PT
	10.0	S-6	3 4 3 2 / 6 6 6 6	24	18	Interval= 1012' Fill material.	S-6 (18in) SILTY SAND, similar to S-5A w/plastic outlet piece, asphalt shingle, pastey consistency (sludge-like), 2in thick interbed of peat, root matter.	SM
	12.0	S-7	9 7 5 6 / 6 6 6 6	24	10	Interval= 1214' Fill material.	S-7 (10in) SILTY SAND, similar to S-6.	SM
							14-feet = Base of fill and top of silt/peat.	
	14.0	S-8	3 3 3 5 / 6 6 6 6	24	10	Interval= 1416' Potential nat. material.	S-8 (10in) ORGANIC SILT and PEAT, trace clay, plant matter, fibrous in sections, 2-3in thick interbeds of peat, brown to black.	OL/Pt

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25in ID HSA to 16ft, a pot. conf. layer. Pull augers. Advance 8in casing to 16 Ft. Spin&Wash. Telescope and advance 6in from 16 to EOB @ 55ft. Thin org. layer (4ft max). Continuous sampling 0.5-20ft, Stnd sampling 23-EOB. 3in split-barrel samplers advanced w/140lb hammer. Screen samples. Rock @ 54ft. Set well. Screen@ 52.5-42.5ft.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW110D_A.DWG (8/27/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO | BORING NO: SP-MW110D

DATE START: 04/18/1994 | DEPTH TO WATER: 6.45 | LOGGED BY: KJ | GROUND EL.: 9.60

DATE COMPLETED: 04/18/1994 | DATE & TIME: 05/16/1994/1425 | CHECKED BY: | TOTAL DEPTH: 55.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	2 3 3 5 / 6 6 6 6	24	15	Interval= 16-18' Natural soil	S-9 (15in) PEAT, organic fibrous plant matter, roots, some silt, brown.	Pt
							18-Feet = Base of peat and top of sand.	
	18.0	S-10	7 9 16 18 / 6 6 6 6	24	16	Interval= 18-20' Natural soil. Advance to 23ft	S-10 (16in) SILTY SAND, some gravel, poorly graded brown.	SM
							Note: Initiate standard sampling (approx. every 5 ft).	
	23.0	S-11	9 10 16 17 / 6 6 6 6	24	8	Interval= 23-25' Stnd sampling	S-11 (8in) SAND, trace silt, trace coarse gravel, poorly graded, gray-brown	SP
	28.0	S-12	5 7 6 5 / 6 6 6 6	24	11	Interval= 28-30'	S-12 (11in) SAND, trace silt, poorly graded, gray brown.	SP

LEGEND:

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN – Penetration length of sampler
REC – Length of sample recovered
▽ – Natural groundwater table

NOTES:

Advanced boring w/4.25in ID HSA to 16ft, a pot. conf. layer. Pull augers. Advance 8in casing to 16 Ft. Spin&Wash. Telescope and advance 6in from 16 to EOB @ 55ft. Thin org. layer (4Ft max). Continuous sampling 0.5-20ft, Stnd sampling 23-EOB. 3in split-barrel samplers advanced w/140lb hammer. Screen samples. Rock @ 54ft. Set well. Screen@ 52.5-42.5ft.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW110B_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0090 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SP-MW110D

DATE START: 04/18/1994 DEPTH TO WATER: 6.45 LOGGED BY: KJ GROUND EL.: 9.60

DATE COMPLETED: 04/18/1994 DATE & TIME: 05/16/1994/1425 CHECKED BY: TOTAL DEPTH: 55.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	33.0	S-13	13 26 25 33 — 6 6 6	24	22	Interval= 3335'	S-13A (10in) SAND, trace silt, reddish colored laminations or streaks.	SP
	38.0	S-14	24 22 32 48 — 6 6 6	24	24	Interval= 3840'	S-14 (24in) SAND, some gravel, trace silt, poorly graded, 2in thick interbed of gray-brown silty sand, brown-red.	SP
	43.0	S-15	27 32 34 48 — 6 6 6	24	10	Interval= 4345'	S-15 (10in) SAND, similar to S-14.	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/4.25in ID HSA to 16ft, a pot. conf. layer. Pull augers. Advance 8in casing to 16 Ft. Spin&Wash. Telescope and advance 6in from 16 to EOB @ 55ft. Thin org. layer (4ft max). Continuous sampling 0.5-20ft, Stnd sampling 23-EOB. 3in split-barrel samplers advanced w/140lb hammer. Screen samples. Rock @ 54ft. Set well. Screen@ 52.5-42.5ft.

ACAD NAME:A:\MW110D_C.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: SB-MW110D

DATE START: 04/18/1994 DEPTH TO WATER: 6.45 LOGGED BY: KJ GROUND EL.: 9.50

DATE COMPLETED: 04/18/1994 DATE & TIME: 05/16/1994/1425 CHECKED BY: TOTAL DEPTH: 55.0

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	48.0	S-16	35 6 23 6 20 6 18 6	24	0	Interval= 48.0' NO RECOVERY.	S-16 (0in) NO RECOVERY, possibly pushed a rock.	
							Top of bedrock is >= 54-feet.	
	53.0	S-17	200 8	8	8	Interv.=53-53.6 Casing grinding Barrel refusal	S-17 (8in) SAND, some gravel, trace silt, similar to S-15 w/metamorphic rock frags, mottled nature. SP Note: Advance casing in attempt to break apart potential cobble. Still grinding. Potential top of rock at approx. 54ft. EOB @ 55Ft. Backfill to 52.5 ft. Set well, see log.	

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler: coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

Advanced boring w/4.25in ID HSA to 16Ft, a pot. conf. layer. Pull augers. Advance 8in casing to 16 Ft. Spin&Wash. Telescope and advance 6in from 16 to EOB @ 55ft. Thin org. layer (4Ft max). Continuous sampling 0.5-20ft, Stnd sampling 23-EOB. 3in split-barrel samplers advanced w/140lb hammer. Screen samples. Rock @ 54ft. Set well. Screen@ 52.5-42.5Ft.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW110D_D.DWG (8/25/99)

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPBG2-101
PROJECT NO.:	N4106-0320			START DATE:	7/29/02 @ 1230
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/29/02
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM]
0							0.2 ft. topsoil and grass			
1	S-1	1.2 / 2.0	OU6-SO-SPBG2-101-0002	Topsoil	Loose	Brown	Sand – Some/Little Silt – Trace Gravel (Poorly graded fine to medium sand, fine gravel)	SP/SM	Dry, PACM tiles, roofing shingles.	PID = 0.0
	@		7/29/02 @ 1255	Sand w/Silt						FID = 5.0
2	1255		MS/MSD							
3	S-2	1.8 / 2.0	OU6-SO-SPBG2-101-0204	Fill	Medium Dense	Dark Brown Black	Sand – Some Silt – Trace Gravel (Poorly graded fine to medium sand, Increasing silt, fine gravel, trace organics)		Dry-moist, PACM, organics (wood), fibrous (green) material.	PID = 0.0
	@		7/29/02 @ 1355							FID = 40.0
4	1355		Duplicate @ 1405							
5	S-3	1.3 / 2.0	OU6-SO-SPBG2-101-0406	Silty Sand			Silty Sand – Trace Gravel (4.9 ft. unidentified green material ∂0.2 ft. thick, poorly graded fine to medium sand, fine gravel, roofing shingles, tar paper, siding tiles)	SM	Moist-wet, PACM, green material, fibrous material, tiles, organics (wood).	PID = 0.0
	@		7/30/02 @ 1445							FID = 1500
6	1445									
7	S-4	1.1 / 2.0	OU6-SO-SPBG2-101-0608		Loose		Silty Sand – Trace Gravel (Poorly graded fine to medium sand, fine gravel)		Wet, PACM, roofing and siding tiles, trace organics, sulfur odor, metal.	PID = 0.0
	@		7/29/02 @ 1505							FID = 114
8	1505									
9	S-5	0.8 / 2.0	OU6-SO-SPBG2-101-0810						Wet, PACM, roofing and siding tiles, organics.	PID = 0.0
	@		7/29/02 @ 1530							FID = 518
10	1530									
11	S-6	1.2 / 2.0	OU6-SO-SPBG2-101-1012						Wet, PACM, roofing & siding tiles, organics.	PID = 0.0
	@		7/29/02 @ 1605							FID = 47
12	1605									
13	S-7	0.0 / 2.0	No Recovery	?	No Recovery	No Recovery	NA	NA	NA	NA
	@ NA									
14										
15	S-8	1.3 / 2.0	OU6-SO-SPBG2-101-1416	Fill Silty Sand @ 15.5'	Loose	Brown	Silty Sand – (Poorly graded, fine to medium sand, trace organics)	SM	Wet, PACM tiles @ 14-15.5 ft., organics, sulfur odor below 15.5 ft.	PID = 0.0
	@		7/29/02 @ 1655							FID = 96
16	1655									

TYPE OF DRILLING RIG:	Truck-Mounted Geo-Probe Rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	PID (A) FID (A)	BORING NO.: SPBG2-101	PAGE: 1 OF 1

1. Bottom Of Exploration @ 16.0 ft bgs, f-m sand w/silt, wet, no PACM noted below 15.5 ft., trace organics.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG2-102
PROJECT NO.:	N4106-0320	START DATE:	7/29/02 @ 1620
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/29/02 @ 1710
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.35 / 2.0	OU6-SO-SPBG2-102-0002			Dark Brown	Silty Sand, (Mostly fine sand, silt, trace medium to coarse sand and organics)	SM	Dry, PACM noted in sample.	PID = 0.0 FID = 0.0
2			7/29/02 @ 1605	Silty Sand						
3		1.6 / 2.0	OU6-SO-SPBG2-102-0204						Dry, no man-made materials noted.	PID = 0.0 FID = 0.0
4			7/29/02 @ 1630	~4'						
5		2.0 / 2.0	OU6-SO-SPBG2-102-0406			Black	Silt – Some Sand (Mostly silt, fine sand, trace organic matter)	ML	Moist, PACM noted throughout sample noted.	PID = 0.0 FID = 152
6			7/30/02 @ 1640							
7		1.1 / 2.0	OU6-SO-SPBG2-102-0608	Silt			Silt – Trace Sand (Mostly Silt, fine sand, trace organics)		Moist, pieces of shingle noted in sample.	PID = 0.0 FID = 1,143
8			7/29/02 @ 1650							
9		2.0 / 2.0	OU6-SO-SPBG2-102-0810						PACM noted in sample, moist.	PID = 0.0 FID = 1,286
10			7/29/02 @ 1700	~10'			Silt – Some Sand (Mostly silt, sand, trace organics)			
11			OU6-SO-SPBG2-102-1012	Organic Silt			Organic Silt (Mostly silt and organics)	OL/OH	Moist, strong sulfur odor, no man-made material in sample.	PID = 585 FID = 781
12 [1]			7/29/02 @ 1705							
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: SPBG2-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 12.0 ft., no man-made materials noted in sample.

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPBG2-103
PROJECT NO.:	N4106-0320			START DATE:	7/29/02 @ 1530
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/29/02 @ 1610
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.9 / 2.0	OU6-SO-SPBG2-103-0002	Silty Sand		Brown	Silty Sand (Mostly fine sand, silt, trace medium to coarse sand, and organics)	SM	Dry, PACM noted in sample.	PID = 0.0 FID = 0.0
2			7/29/02 @ 1530							
3		1.0 / 2.0	OU6-SO-SPBG2-103-0204			Dark Brown			Pieces of wood and shell noted.	PID = 0.0 FID = 0.0
4			7/29/02 @ 1545	~4'						
5		1.1 / 2.0	OU6-SO-SPBG2-103-0406	Sand w/silt		Light brown	Sand – Little Silt (Poorly graded, fine sand, trace organics)	SP-SM	Some organics, no man-made materials noted in sample.	PID = 0.0 FID = 0.0
6			7/30/02 @ 1555							
7		1.4 / 2.0	OU6-SO-SPBG2-103-0608			Brown	Top 1.0 ft. similar to previous.		Moist, no man-made materials noted in sample.	PID = 0.0 FID = 0.0
8 (1)			7/29/02 @ 1605	~7.6' Sand			Bottom 0.4 ft. Sand – Trace Silt (Well graded, fine to coarse sand and organics)	SW		
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.:	SPBG2-103	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 8.0 ft., no man-made materials noted in samples from 4-8 ft. Soils appear to be of natural origin.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG2-104
PROJECT NO.:	N4106-0320	START DATE:	7/29/02 @ 1430
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/29/02 @ 1510
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		2.0 / 2.0	OU6-SO-SPBG2-104-0002 7/29/02 @ 1440	Silty Sand		Light Brown	Top 1.4 ft. – Silty Sand (Mostly fine sand and silt, trace coarse sand, and organics)	SM	PACM & fill material noted in sample. Soils are dry.	PID = 0.0 FID = 0.0
2						Black	Bottom 0.4 ft., similar soil w/fill.			
3		1.5 / 2.0	OU6-SO-SPBG2-104-0204 7/29/02 @ 1445	Sandy Silt			Sandy Silt (Mostly silt and fine sand, trace organics)	ML	Moist, PACM noted in sample.	PID = 0.0 FID = 9.2
4										
5		1.85 / 2.0	OU6-SO-SPBG2-104-0406 7/30/02 @ 1500							PID = 0.0 FID = 424
6										
7		1.7 / 2.0	OU6-SO-SPBG2-104-0608 7/29/02 @ 1505						Moist, no man-made material noted in sample.	PID = 0.0 FID = 374
8 [1]										
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: SPBG2-104	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 8.0 ft., no man-made materials noted in samples, soils appear to be of natural origin.

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPBG2-105
PROJECT NO.:	N4106-0320			START DATE:	7/29/02 @ 1815
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/29/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.7 / 2.0	OU6-SO-SPBG2-105-0002	Silty Sand		Brown	Silty Sand (Mostly fine sand and silt, w/trace medium to coarse sand and gravel)	SM	PACM noted in sample. Soil is very dry.	PID = 0.0 FID = 0.0
2			7/29/02 @ 1820			↓	↓	↓		
3		1.6 / 2.0	OU6-SO-SPBG2-105-0204	Fine Sand		Light Brown	Sand – Trace Silt (Poorly graded, mostly fine sand, trace medium sand)	SP	No man-made material noted in sample.	PID = 0.0 FID = 0.0
4			7/29/02 @ 1830	↓		↓	↓	↓		
5		1.7 / 2.0	OU6-SO-SPBG2-105-0406			↓	↓	↓	Moist, no man-made material noted.	PID = 0.0 FID = 0.0
6 [1]			7/30/02 @ 1835			↓	↓	↓		
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: SPBG2-105	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 6.0 ft., no man-made materials noted in sample.

WESTON BOREHOLE LOGGING DATA SHEET

Proj. No: 4100-9-87-11	Proj. Name: Stratford Sites, Stratford, CT.	Logger: M. Wagner	Borehole Loc: SPDA-E222,S132	Date: 10/20/93

Depth (BGS)	Core Sect.	Total Rec.	Lithologic Description	Comments	Sample ID
0.0-2.5	#1 0.0-4.0	2.5 ft.	Drk brn - blk, clayey silt, trace roots, trace hard white fibrous material (possibly transite), grey/blk fibrous, some grey/blk fibrous material, some organic rootlets.	Moist, fill.	(0.0-2.5)
2.5-4.0			Missing section.	No recovery.	
4.0-8.0	#2 4.0-8.0	0.0 ft.	Missing section.	No recovery.	
8.0-10.0	#3 8.0-10.0	2.0 ft.	Drk brn - blk, clayey silt, grey blk fibrous material.	Saturated at approx. 9.0 ft; fill.	(8.0-10.0)
10.0-11.3	#4 10.0-14.0	3.5 ft.	Drk brn - blk silty clay, rare f-gravel.	Saturated.	(10.0-11.3)
11.3-13.5			Med - drk brn, silt layer, peat layer, some clay content, abundant rootlets.	Saturated, appears to be natural material.	(11.3-13.5)
13.5-14.0			Missing section.	No recovery.	
14.0-15.3	#5 14.0-17.0	2.5 ft.	Drk brn - blk, clayey silt, mod organics/rootlets.	Saturated.	(14.0-15.3)
15.3-16.5			Med grey brn, silty f-sand, some m-c sand.	Saturated.	(15.3-16.5)
16.5-17.0			Missing section.	No recovery, piezometer installed, screened at 14.5-19.5 ft.	

Rev. 3/29/94 JFK

VACANT LOT AT HOUSATONIC AVENUE

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK			BORING NO.:	A3-SB02		
PROJECT NO.:	N7491-0320			START DATE:	8-5-97		
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY:	FMD	COMPLETION DATE:	8-5-97		
DRILLED BY (Company/Driller):	ATL / Mike Hawkins			MON. WELL NO.:			
GRD. SURFACE ELEVATION:	~8.10'	ELEVATION FROM:	Estimated from topo.	CHECKED BY:	THD		

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	2		OU3-A3-SB02-0002			brown	S-1A (0-5) Silty SAND w/glass, roots, pot. asb. tiles	SM	loose dry fill	0	0
	3	19				black	S-1B - Asphalt chunks (5-11)	FILL	fill		1.7
	4	24					S-1C (11-19) Silty SAND w/pot. asb. tiles/pos. asphalt		pot. asb. tiles		
2'	4		1142 S-1			brown	shingles, fine coarse gravel (trace)	SM			0
	3		- 0204				S-2A (0-8) Silty SAND w/pot. asb. brake pads, tiles,		pot asb. tiles loose dry fill		
	3	24				brown	Twigs, glass, shingles. like material, green tiles	SM		0	74.3
	3	24				brown	S-2B (8-24) silty SAND w/ pot. asb. fill, gravel asphalt		loose dry fill	0	50.2
4'	3		1200 S-2			black	chunks.	SM			
	1		-0406				S-3 SILT trace fine sand -lots of fibrous waste (man-made)		resembles soil-waste	0	272.3
	1	24				brown	pads, glass, tiles, black shiny material, degraded plastic or poly.	ML	(dry) (manufactured)		
	1	24							material.		
6'	1		1210 S-3			black					
	1		-0608				SILT, trace fine sand, numerous fibers (man-made fibrous			54.8	30.2
	1	21				black	pads black shiny material, white spaces (flaky)	ML	pot. asb. waste		
	1	24							damp only		
8'	1		1220 S-4								
			-0810			brown	S-5A -SILT trace sand, no visible waste, phragmite reeds		no waste visible	5.3	0
	1	21				black	org. fibers.	ML	damp		
	24in	24							no waste seen	6.1	0
10'			1230 S-5			brown	S-5B – PEAT, trace silt, lot org. fibers, tissue stems.	PT	damp		
	1		-1012						saturated - no	64.2	0
	1	24				black	S-6A – SILT, trace fine sand, org. fibers, stems, white specs.	ML	waste seen. org. odor		
	1	24							no waste seen	2.3	0
12'	1		1240 S-6			brown	S-6B - silty SAND w/org. fibers, f-m sand, reg. tissue.	SM	saturated		
	1		-1014						no waste seen	0	0
	1	20				brown	SAND - mostly fine sand tr. coarse sand, tr. org. fibers, twigs tr.	SP	saturated		
	1	24									
14'	1		1250 S-7								
	1		-1416						saturated	78.2	40.8
	1	24				brown	S-8A (0-16) SAND, mostly fine trace silt	SP	no waste		
	4	24								50.7	25.3
16'	5		1255 S-8			brown	S-8B (16-24) SAND f-c sand, wg, tr. silt	SW	saturated		

EOB 16' w/spoons

TYPE OF DRILLING RIG:	CME-850	**BACK FILL BENT SLURRY TO 0' ON 1210 – OFF C DRILL CREW-1230 – ON 1245**	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4.25' I D HSA 8 in OD HSA		
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	WATER IN AUGERS @ 8.70 BGS 1245 HRS.		
OTHER OBSERVATIONS:	UPGRADED TO C @ 4' W/SPOONS @ 1150	BORING NO.: A3-SB02	PAGE: 1 OF 1

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		
PROJECT NO.:	N7491-0320		
LOGGED BY:	KAYLEEN JALKUT	TRANSCRIBED BY:	FMD
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		
GRD. SURFACE ELEVATION:	~3.5’	ELEVATION FROM:	Estimated from topo.

BORING NO.:	A3-SB03		
START DATE:	8-5-97		
COMPLETION DATE:	8-5-97		
MON. WELL NO.:	N/A		
CHECKED BY:	THD		

DEPTH (FEET)	BLOWS PER 6”	SAMPR EC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID PID]	
	WOH	9 / 24	OU3-A3-SB03-0002			Brown	S-1A - (0-8in.) PEAT. decaying veg. tissue, fibrous twigs.	PT	saturated	0	20
2’	WOH		0925 S-1			Brown	S-1B (8-9) PEAT, tr. silt, twigs, organic fibers	PT	saturated	0	0
	WOH	3 / 24	-0204			Brown	PEAT, some silt, twigs, organic fibers, tissue	PT	saturated	0	11.6
4’	WOH		0930 S-2								
	WOH	13 / 24	-0406			Brown	S-3A (0-6) PEAT some silt, twigs, fibers	PT	saturated	0	8.6
6’	WOH		0940 S-3			Brown	S-3B (6-13) SILT, organic fibers reeds, twigs, TR fine sand	ML	saturated	0	10.2
	WOH	24 / 24	-0608				S-4A- org. SILT - Soupy w/fibers (0-4in)	OL	saturated	0	8.2
	WOH					Black	S-4B (4-12 in.) Sandy SILT w/org. fibers.	SM	saturated	0	7.1
	1/12”	24 / 24				Brown		SP			
8’			0945 S-4			Brown	S-4C (12-24) Silty f-m SAND w/few organic fibers.	SM	saturated	0	9.6
	1	13 / 24	-0810								
	2										
	2					Gray	SAND, TR. silt, TR org. fibers, mostly f-m sand TR.				
10’	1		0950 S-5			Brown	coarse sand, no structure.	SP	saturated, loose	0	7.4
	2	24 / 24	-1012			Gray	SAND, mostly f-m tr. coarse tr. SR. gravel up to 3 in.		1x3 in. interial fine sand		
	3					Brown	(2 pieces.)	SP	at base	0	6.2
	4										
12’	2		1000 S-6								
							EOB @ 12’ w/augers & barresl running sands backfill w/bent slurry.				

TYPE OF DRILLING RIG:	CME-850 ATV RIG W/TRUCK
METHOD OF ADVANCING BORING:	4.25’ I D HSA 8 IN OD HSA
METHOD OF SOIL SAMPLING:	300 LB HYDRAULIC HAMMER 3 IN BARREL 18 IN DROP
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	WATER IN AUGERS – 0.75’ BGS RUNNING SAND @ 12’ ATTEMPTED 0062 2X “2-NO RECOVERIES”
OTHER OBSERVATIONS:	0204 2X 1 NO

Tetra Tech NUS, Inc.

BORING NO.: A3-SB03

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPDA-101
PROJECT NO.:	N4106-0320	START DATE:	7/29/02 @ 1800
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/29/02 @ 2000
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1	S-1	1.5 / 2.0	OU6-SO-SPDA-101-0002	Fill	Loose	Brown	0.3 ft. topsoil, grass, leaves. Sand – Some Silt – Trace Gravel (Poorly graded, fine to medium sand, fine and coarse gravel)	SP/SM	Dry-moist, PACM noted @ 0.5 ft.	PID = 0.0 FID = 5.0
2	@ 1820		7/29/02 @ 1820							
3	S-2	1.9 / 2.0	OU6-SO-SPDA-101-0204	Sand some Silt	Medium Dense		Sand – Some Silt – Trace Gravel (Poorly graded fine to medium sand, fine gravel, trace organics)		Moist, PACM noted, organics, green & red color soil, rubber.	PID = 0.0 FID = 5.0
4	@ 1845		7/29/02 @ 1845							
5	S-3	1.8 / 2.0	OU6-SO-SPDA-101-0406						Moist, PACM noted, glass, organics.	PID = 0.0 FID = 0.0
6	@ 1910		7/29/02 @ 1910	~5.5' Silty Sand			Increased silts and fine sand, no PACM Noted below 5.5 ft.	SM		
7	S-4	1.7 / 2.0	OU6-SO-SPDA-101-0608		Medium Dense	Light Brown	Silty Sand – Trace Gravel (Poorly graded fine sand & silt, fine gravel, trace organics)		Moist-wet, no PACM noted.	PID = 0.0 FID = 160
8 (1)	@ ?		7/29/02 @ 1925							

TYPE OF DRILLING RIG:	Truck mounted Geo-probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	FID (A) PID (A)

Tetra Tech NUS, Inc.

BORING NO.: SPDA-101

1. Bottom of Exploration (B.O.E.) @ 8.0 ft. silty sand, no PACM noted or man-made material.

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPDA-102
PROJECT NO.:	N4106-0320			START DATE:	7/29/02 @ 1750
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/29/02 @ 1805
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.4 / 2.0	OU6-SO-SPDA-102-0002 7/29/02 @ 1750	Silty Sand		Light Brown	Silty Sand (Mostly fine sand and silt, trace medium to coarse sand.)	SM	Dry, no man-made material noted.	PID = 0.0 FID = 0.0
2										
3		1.7 / 2.0	OU6-SO-SPDA-102-0204 7/29/02 @ 1755							PID = 0.0 FID = 0.0
4 (1)										
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: SPDA-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft. No man-made material noted in sample.

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPDA-103
PROJECT NO.:	N4106-0320			START DATE:	8/5/02 @ 1250
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/5/02 @ 1350
DRILLED BY (Company/Driller):	C. Meyer			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ∂ 0.2' Organics, roots, leaves	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1	S-1	2.0	OU6-SO-SPDA-103-0002	Silty Sand	Loose	Brown	Silty Sand – Trace Gravel (Poorly graded fine sand and silt, fine gravel, trace organics, roots)	SM	Dry, no PACM, no man-made material or odor.	PID = 0.0 FID = 0.0
2	@ 1305		8/5/02 @ 1305							
3	S-2	2.0	OU6-SO-SPDA-103-0204			Yellow/ Orange			Dry, no PACM, no man-made material or odor.	PID = 0.0 FID = 0.0
4 [1]	@ 1320		8/5/02 @ 1320			Brown				
				B.O.E.						

TYPE OF DRILLING RIG:	N/A - Hand Auger		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using Hand Auger		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (C) PID (C)	BORING NO.: SPDA-103	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ ∂4.0 ft. No PACM or man-made material visible.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPDA-104
PROJECT NO.:	N4106-0320	START DATE:	7/29/02 @ 1305
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/29/02 @ 1415
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.2 / 2.0	OU6-SO-SPDA-104-0002 7/29/02 @ 1330	Sand		Brown	Sand – Trace Gravel – Trace Silt (Poorly graded, mostly fine to medium sand, trace coarse sand)	SP	Dry, fill material noted in sample, possible slag.	PID = 0.0 FID = 0.0
2										
3		1.6 / 2.0	OU6-SO-SPDA-104-0204 7/29/02 @ 1335	~2.8' sandy Silt		Black	Bottom 1.2 ft. of sample: sandy Silt (Mostly silt and fine sand, trace coarse sand)	ML	Moist, PACM noted in sample.	PID = 0.0 FID = not functioning
4										
5		1.55 / 2.0	OU6-SO-SPDA-104-0406 7/29/02 @ 1350				sandy Silt (Mostly silt w/some fine sand, trace organics)			PID = 0.0 FID = not functioning
6										
7		1.8 / 2.0	OU6-SO-SPDA-104-0608 7/29/02 @ 1355	~8'					Moist, PACM & glass noted in sample.	PID = 0.0 FID = not functioning
8										
9		1.9 / 2.0	OU6-SO-SPDA-104-0810 7/29/02 @ 1410	Organic Silt			Organic Silt – Trace Sand (Mostly Silt and Organics, fine sand)	OL/OH	Moist, no man made material noted in sample.	PID = 0.0 FID = not functioning
10 (1)										
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: SPDA-104	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 10.0 ft. No man made material noted in sample, soils appear to be of natural origin.

WESTON BOREHOLE LOGGING DATA SHEET

Proj. No: 4100-9-87-11		Proj. Name: Stratford Sites, Stratford, CT.		Logger: J. Kelly	Borehole Loc: SPDA-E310,S100	Date: 10/20/93
Depth (BGS)	Core Sect.	Total Rec:	Lithologic Description		Comments	Sample ID
0.0-2.4	Hand auger.	10.6 ft.	Drk brn abundant organic material, some silt.		Saturated at 0.4 ft.	(0.0-0.2)
2.4-10.6			Drk brn silt with some organic material.			(10.0-10.6)

{Wetland Area}
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WESTON BOREHOLE LOGGING DATA SHEET

Proj. No: 4100-9-87-11		Proj. Name: Stratford Sites, Stratford, CT.		Logger: M.Hunter	Borehole Loc: SPDA-E280,S40	Date: 10/21/93
Depth (BGS)	Core Sect.	Total Rec:	Lithologic Description		Comments	Sample ID
0.0-0.3	Hand auger.	1.7 ft.	Drk brn - blk, silty sand, some debris including: coal, plate-like man-made material (asbestos brake parts), glass debris, asphalt, and coal slag; little f-c gravel, little m-c sand, some organic debris (branches, rootlets, seeds).		Surface area around location contains concrete blocks, metal pipes, asphalt, brick.	(0.0-0.2)
0.3-1.7			Med brn - drk brn, silty f-sand, abundant debris including: glass, concrete, brick, blk flaky material, coal slag; some m-c sand, f-c gravel, c-cobble, trace rootlets. At 0.4-1.1, large layer of brick, concrete and cobble.		Refusal at 1.7 - concrete slabs encountered.	C(0.4-1.1)

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WESTON BOREHOLE LOGGING DATA SHEET

Proj. No: 4100-9-87-11		Proj. Name: Stratford Sites, Stratford, CT.		Logger: M. Wagner	Borehole Loc: SPDA-E228,N0	Date: 10/20/93
Depth (BGS)	Core Sect.	Total Rec:	Lithologic Description		Comments	Sample ID
0.0-0.6	#1 0.0-4.0	2.2 ft.	Med - drk brn, m-f sand, some silt, some organic rootlets, trace red brick, thin layer of cement, trace f-gravel.		Moist fill.	(0.0-0.6)
0.6-2.2			Drk brn - blk, clayey silt, blk/gray fibrous material, thin layer of med brn, silty f-sand.		Moist, appears to be fill.	(0.6-2.2)
2.2-4.0			Missing section.		No recovery.	
4.0-5.9	#2 4.0-8.0	1.9 ft.	Drk brn - blk clayey silt, abundant grey - blk fibrous material (possibly asbestos), trace red wax-like material.		Moist, appears to be fill.	(4.0-5.9)
5.9-8.0			Missing section.		Saturated, no recovery.	
8.0-9.0	#3 8.0-12.0	1.0 ft.	Med grey brn, c-f sand, abundant silt, some f-gravel, some c-gravel.		Saturated, problem with extraction of sample from Geoprobe.	
9.0-12.0			Missing section.		No recovery.	

REV 3/29/94: JFK

WESTON BOREHOLE LOGGING DATA SHEET

Proj. No: 4100-9-87-11	Proj. Name: Stratford Sites, Stratford, CT.	Logger: C. Guder	Borehole Loc: SPDA-E325,S38	Date: 10/21/93

Depth (BGS)	Core Sect.	Total Rec:	Lithologic Description	Comments	Sample ID
0.0-1.1	#1 0.0-4.0	1.8 ft.	Med - drk brn, m-f silty sand, brick frags, loose.	Moist fill.	C(0.0-1.0) (0.5-1.1)
1.1-1.5			Med brn, m-f sand, some silt, 10% m-f gravel, brick frags.	Fill.	(1.1-1.5)
1.5-1.8			Drk brn, m-f sand, white and grey small fibers throughout, one flat blk hard piece (possibly brake shoe).	Fill.	(1.5-1.8)
1.8-4.0			Missing section.	No recovery.	
4.0-5.1	#2 4.0 8.0	2.8 ft.	Med - lt olive brn, silty m-f sand, 25% silt, mod organics. Debris including: red clumps of wax-like material and silver and grey fibers throughout unit.	Moist fill.	(4.0-5.1)
5.1-5.9			Blk ash-like coal material, disks of blk fibrous friable material (possibly asbestos).	Fill.	(5.1-5.9)
5.9-6.8			Med brn - olive brn, organic rich silty material, some red wax-like material, organic debris (wood frags).	Moist fill.	(5.9-6.8)
6.8-8.0			Missing section.	No recovery.	
8.0-8.6	#3 8.0-12.0	2.7 ft.	Blk c-f sand, red flecks throughout, 10% m-f gravel.	Saturated, possibly fill.	(8.0-8.6)
8.6-10.0			Med - drk brn, organic/peat layer, no visible debris.	Saturated, possibly natural.	(8.6-10.0)
10.0-10.7			Olive brn, m-f sand, 25% silt, low % organics, no debris.	Saturated, possibly natural.	(10.0-10.7
10.7-12.0			Missing section.	No recovery.	

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326 FERRY BOULEVARD

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG1-101
PROJECT NO.:	N4106-0320	START DATE:	7/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ∂1.5" asphalt	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		2.0 / 2.0	OU6-SO-SPBG1-101-0002	Fill		Medium Brown	Poorly graded SAND, mostly fine to med. sand	SP	Dry, moist PACM noted, fibers, green & white asphalt pieces, shingles, shells.	PID = 0.0 FID = 142.5
2			7/15/02 @ 1250 MS/MSD Collected				w/silt, trace fine to med. gravel.			
3		1.6 / 2.0	OU6-SO-SPBG1-101-0204 7/15/02 @ 1325				Increased fine SAND and silt, trace	SM	Moist, PACM noted, grass, wood, roots.	PID = 0.0 FID = 113.2
4			OU6-SO-DP01 7/15/02 @ 1335				organics, pieces of wood, roots.			
5		2.0 / 2.0	OU6-SO-SPBG1-101-0406			Med.-Dk. Brown	Poorly graded SAND, mostly fine to med. sand		Moist, PACM noted, organics, roots, wood, shingles.	PID = 0.0 FID = 492.0
6			7/15/02 @ 1355				W/silt, trace fine to med. gravel, trace organics.			
7		2.0 / 2.0	OU6-SO-SPBG1-101-0608						Moist, wet, shingles, PACM noted, not deeper than 6.5 ft., sulfur odor.	PID = 0.0 FID = 2392
8			7/15/02 @ 1415	Silty Sand			Increased organics & silts @ depth >6.5 ft.	OL		
				BOE						

TYPE OF DRILLING RIG:	Track Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring Equip. FID (A) PID (A). 1 – BOE @ 8.0 ft. bgs, organics and silt, fine sand, no visible PACM, no visible man-made materials, sulfur odor.	BORING NO.: SPBG1-101	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG1-102
PROJECT NO.:	N4106-0320	START DATE:	7/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Top two inches asphalt			
1		1.2 / 2.0	OU6-SO-SPBG1-102-0002 7/15/02 @ 1307	Asphalt Fill		Brown	Well graded SAND, mostly coarse to fine sand with some gravel.	SW	Fill material, PACM identified, dry, piece of rubber noted.	PID = 0.0 FID = 0.0
2										
3		1.2 / 2.0	OU6-SO-SPBG1-102-0204 7/15/02 @ 1320						Fill, dry, PACM identified some frac. rock.	PID = 0.0 FID = 0.0
4						Light Gray				
5		1.8 / 2.0	OU6-SO-SPBG1-102-0406 7/15/02 @ 1335				Top 0.3 ft. similar to previous Bottom 1.5 ft. organic soil, mostly	OL/OH	Some fill similar to previous organic layer appears natural.	PID = 0.0 FID = 70.2
6				Organics		Gray/ Black	ORGANICS & SILT w/trace fine sand.			
				BOE						

TYPE OF DRILLING RIG:	Track Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	1 – BOE @ 6.0 ft. bgs, natural soils encountered.	BORING NO.: SPBG1-102	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPBG1-103
PROJECT NO.:	N4106-0320			START DATE:	7/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0				Asphalt			Asphalt			
1		1.6 / 2.0	OU6-SO-SPBG1-103-0002 7/15/02 @ 1410	Fill			0.5' asphalt Top 0.4 ft. poorly graded SAND mostly coarse sand	SP	Fill material, some bricks and asphalt noted in top 0.4 ft.	PID = 0.0 FID = 7.2
2						Light Brown	w/some fine sand and trace gravel & silt. Bottom 1.2 ft. poorly graded SAND, mostly			
3		2.0 / 2.0	OU6-SO-SPBG1-103-0204 7/15/02 @ 1425	sand			med. to fine sand, trace coarse sand. Poorly graded SAND, mostly fine to med.		All sand in sample moist, no man-made materials identified.	PID = 0.0 FID = 2,294
4						Gray	sand w/some coarse sand, trace gravel and silt.			
				BOE						

TYPE OF DRILLING RIG:	Track Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	1 – confirmation collected from 0-2 ft. 2 - BOE @ 4.0 ft. no man made material identified in bottom layers.	BORING NO.: SPBG1-103	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG1-104
PROJECT NO.:	N4106-0320	START DATE:	7/15/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/15/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
				Asphalt			Asphalt surface			
1		1.2 / 2.0	OU6-SO-SPBG1-104-0002 7/15/02 @ 1500	Fill		Gray/ Black	Poorly graded SAND w/silt, mostly fine to med. sand w/some silt, trace coarse sand & silt.	SP-SM	Fill material, moist, strong petroleum odor, frac. brick noted, PACM identified.	PID = 520 FID = 3,019 Note # 1
2										
3		1.4 / 2.0	OU6-SO-SPBG1-104-0204 7/15/02 @ 1505						Fill similar to previous, no PACM identified.	PID = 926 FID = 412
4										
5		1.0 / 2.0	OU6-SO-SPBG1-104-0406 7/15/02 @ 1525			Gray/ Black	Well graded SAND mostly coarse to fine sand trace gravel and silt.	SW	Wet, fill material, frac. brick noted in sample, strong petroleum odor.	PID = 53.9 FID = 29.0
6										
7		0.6 / 2.0	OU6-SO-SPBG1-104-0608 7/15/02 @ 1530			Black			Sample was mostly frac. brick.	PID = 0.0 FID = 26.5
8										
9		0.3 / 2.0	OU6-SO-SPBG1-104-0810 7/15/02 @ 1550	Sand		Gray/ Brown	Poorly graded sand, mostly fine to med. sand, trace coarse sand & silt.	SP	No man made material noted in sample. Slight petroleum odor.	PID = 0.0 FID = 152.0
10										
				BOE						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	1 – Strong petroleum odor coming off soils in sample sleeve. 2 – BOE at 10.0 ft. bgs, no man made materials identified in sample.	BORING NO.: SPBG1-104	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG1-105
PROJECT NO.:	N4106-0320	START DATE:	7/15/02 @ 1455
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/15/02 @ 1615
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ∂ 1.5" Asphalt	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		2.0 / 2.0	OU6-SO-SPBG1-105-0002 7/15/02 @ 1505 *Confirmatory sample	Fill		Light-Dk. Brown	Well graded SAND, mostly fine to coarse sand, w/trace silt, med. to coarse gravel.	SW	Dry, moist, asphalt frags, tile frags, unidentified odor, large rock frags.	PID = 87.9 FID = 350
2										
3		1.9 / 2.0	OU6-SO-SPBG1-105-0204 7/15/02 @ 1515	Sand		Medium Brown	Poorly graded SAND, mostly fine to med. sand w/silt, trace gravel, ∂ 0.4 ft. PACM	SP	Moist, wet, ∂0.4 ft. PACM tile @ 3.6 ft.	PID = 0.0 FID = 180
4										
5		2.0 / 2.0	OU6-SO-SPBG1-105-0406 7/15/02 @ 1535	Sand & Fill			Approx. ∂0.4 ft. fill material layer.	SP	Wet, ∂0.4 ft. PACM @ 5.6 ft. brick, wood, frags organics, tile frags.	PID = 0.0 FID = 230
6						Light-med. brown	Poorly graded SAND, mostly fine to med. sand	SP		
7		1.5 / 2.0	OU6-SO-SPBG1-105-0608 7/15/02 @ 1600	Sand			w/silt, trace gravel.		Wet, saturated No PACM observed, no man made material.	PID = 0.0 FID = 680
8										

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring Equip FID (A) PID (A). 1 – BOE @ 8.0 ft. bgs, clean sand material, no visible PACM, no visible man made materials, wet, saturated.	BORING NO.: SPBG1-105	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG1-106
PROJECT NO.:	N4106-0320	START DATE:	7/15/02 @ 1625
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/15/02 @ 1815
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ∂ 0.3" Asphalt	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.7 / 2.0	OU6-SO-SPBG1-106-0002 7/15/02 @ 1630	Fill		Medium Brown	Poorly graded SAND, mostly fine to med. sand w/silt, trace fine to med. gravel.	SP	Dry-moist, PACM noted @ 1.1 ft. green fiberous, glass, organics, (wood).	PID = 0.0 FID = 29.5
2										
3		1.6 / 2.0	OU6-SO-SPBG1-106-0204 7/15/02 @ 1640						Moist, PACM noted @ 3.5 ft. approx. ∂0.2 ft. layer, fiberous, tiles.	PID = 0.0 FID = 87.0
4										
5		1.9 / 2.0	OU6-SO-SPBG1-106-0406 7/15/02 @ 1705 Confirmatory Sample				Increased fine sand & silt @ 4.0-5.0 interval then fill material from 5.0-6.0 ft.		Moist-wet, PACM noted @ 4.9 ft. ∂1.0 ft. thick layer, metal, tiles, green shingles, organics, (wood).	PID = 0.0 FID = 211
6										
7		2.0 / 2.0	OU6-SO-SPBG1-106-0608 7/15/02 @ 1715				Sleeve contained 1.5 ft. of roofing shingles 0.2 ft. of siding or tile PACM.		Moist, wet, PACM noted @ 6.5 ft. ∂1.5 ft. thick layer, roofing shingles, tiles.	PID = 0.0 FID = 370
8										
9		1.8 / 2.0	OU6-SO-SPBG1-106-0810 7/15/02 @ 1730				1.8 ft. of PACM siding tile, floor tile, roofing shingles, metal pieces, marine shell frags.		Wet-saturated, PACM noted @ 8.0 to 10.0 ft. approx. 1.8 ft. layer.	PID = 5.7 FID = 584
10										
11		1.4 / 2.0	OU6-SO-SPBG1-106-1012 7/15/02 @ 1740				Poorly graded SAND, mostly fine to med. sand w/silt, trace med. to coarse gravel, trace organics. Increased organics & silt from 11.6 ft. to 12.0 ft.	SM	Wet-saturated, PACM noted @ 10.0 ft. to 11.6 ft. thick layer, tiles, organics, 0.4 ft. layer.	PID = 0.0 FID = 489
12										
13		1.4 / 2.0	OU6-SO-SPBG1-106-1214 7/15/02 @ 1755	Organic Silts			0.2 ft. waste fill material @ 12.0 to 12.2 ft. 12.2 ft. to 14.0 ft. ORGANIC, root mass, SILTY.	OL	Wet-saturated, PACM @ 12.0 to 12.2 ft., organics, sulfur odor.	PID = 0.0 FID = 58
14										
				BOE						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Monitoring Equip FID (A) PID (A). 1 – BOE @ 14.0 ft. bgs, natural organic material encountered @ ∂12.2 ft., no visible PACM beyond 12.2 ft., no man made material, sulfur odor.

Tetra Tech NUS, Inc.

BORING NO.: SPBG1-106

BORING LOG FOR:	Raymark OU6		BORING NO.: SPBG1-201
PROJECT NO.:	N4106-0320		START DATE: 5/12/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/12/03
DRILLED BY (Company/Driller):	ADT/Dan G.		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.0 / 2.0	OU6-SO-SPBG1-201-0002 1515			Brown	*no recovery 1st & 2nd attempt Medium poorly graded SAND with red stained wood chips	SP	Moist	
2*							some gravel			
		1.2 / 2.0	OU6-SO-SPBG1-201-0204 1305		Fill	Dark Gray	Medium-coarse SAND with apparent resin and asbestos	SP	Moist Resin chunks 1-2"	0.0 FID
4										
		1.2 / 2.0	OU6-SO-SPBG1-201-0406 1315				4-5.6 - Fine-medium SAND with fines, resin chunks, fibers	SP	Saturated ~5.5' bgs	0.0 FID
6					Fill		5.6-6-PEAT with fines, dark gray, asphalt shingles	PT		
		1.1 / 2.0	OU6-SO-SPBG1-201-0608 1405				PEAT with fines, pieces of shingle	PT	Saturated @ ~5.5' bgs	
8										
		1.2 / 2.0	OU6-SO-SPBG1-201-0810 1420				Peat with fines, piece of ceramic tile	PT	"manure-like odor"	0.0 FID
10							Pieces of tile, brick, gravel - Fill	Fill		
		1.1 / 2.0	OU6-SO-SPBG1-201-1012 1435			Gray	0-0.5 - PEAT, some tile and resin	PT	Manure odor	0.0 FID
12						Light Gray	0.5-0.65 - wood 0.65-1.1 - Fine poorly graded SAND with some gravel	SP		
				EOB @ 12' bgs			Boring total = 34' drill abandoned			
							Samples collected for full-suite analysis			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.	Sample efforveses in sodium bisulfate	
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S Instrument Group: A	BORING NO.: SPBG1-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	SPBG1-202
PROJECT NO.:	N4106-0320			START DATE:	5/12/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/12/03
DRILLED BY (Company/Driller):	ADT/Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.4 / 2.0	OU6-SO-SPBG1-202-0002 1550			Dark	0-0.5 - Well graded medium-coarse SAND with some gravel with tiles and potential asbestos. 0.5-0.8 – Fine-medium SAND with tiles and potential asbestos.	SW SP		0.0 FID
2						Gray	0.8-1.0 - GRAVEL (quartz), with tiles and potential asbestos. 1.0-1.4 - Medium SAND with sludge (?) with tiles and potential asbestos.	GW- SP		
		1.4 / 2.0	OU6-SO-SPBG1-202-0204 1600			Dark	Poorly graded GRAVEL with sand, copper wire, plastic, tile pieces	GP		0.0 FID
4						Gray				
		1.7 / 2.0	OU6-SO-SPBG1-202-0406 1615				0-0.7 - Same as above 0.7-1.1 - PEAT, sapric	GP PT	Saturated ~5' bgs	0.0 PID
6						White	1.1-1.7 - Dry mineral? white/light gray			
		1.7 / 2.0	OU6-SO-SPBG1-202-0608 1625			Dark	0-1.2 - PEAT (sapric)	PT	with some of above mineral	0.0 PID
8						Gray	1.4-1.7 - Medium SAND with gravel	SP		
		1.8 / 2.0	OU6-SO-SPBG1-202-0810 1640				0-1.5 - Poorly graded medium-coarse SAND 1.5-1.8 - GRAVEL and brick pieces	SP	Raining	
10										
		1.4 / 2.0	OU6-SO-SPBG1-202-1012 1645				0-0.4 - Poorly graded SAND with brick, Asbestos fabric? 3"x 2" sheet	SP		
12							0.4-1.4 - Broken ceramic tile			
		1.6 / 2.0	OU6-SO-SPBG1-202-1214 1700			▼	0-0.7 - Poorly graded medium-coarse SAND	SP		0.0 PID
14						Light Gray	0.7-1.0 - Tiles 1.0-1.6 - Well graded medium SAND	SW		
				EOB @ 14' bgs						

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	H&S Instrument Group: A	BORING NO.:	SPBG1-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	SPBG1-203
PROJECT NO.:	N4106-0320	START DATE:	5/12/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/12/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.8 / 2.0	OU6-SO-SPGB1-203-0002 1720			Brown	Poorly graded medium-coarse SAND with gravel	SP	Moist	0.0 FID
2						Dark Gray	Fine-medium well graded SAND with gravel, tile pieces			
		1.5 / 2.0	OU6-SO-SPGB1-203-0204 1725			Dark Gray	Well graded medium SAND with some gravel ,Potential asbestos fibers	SW		
4										
		(1) 1.7 / 2.0	OU6-SO-SPGB1-203-0406 1730			Brown	0-0.6 - Medium SAND with gravel	SW		0.0 PID
6						Tan	0.6-1.7 - Some fines			
				EOB @ 6' bgs			3 attempts made for 4-6' interval (refusal 2x)			
							18" total DPT @ this location			

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	D.P.T.
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	H&S Instrument Group: A

(1) refusal at 5.2' bgs on 1st and 4.9' on 2nd attempt

Tetra Tech NUS, Inc.

BORING NO.: SPBG1-203

TtNUS Form 0018

576 EAST BROADWAY

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK			BORING NO.:	A1-SB03
PROJECT NO.:	N7491-0320			START DATE:	7-24-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY:	FMD	COMPLETION DATE:	7-24-97
DRILLED BY (Company/Driller):	ATL / Mike Hawkins			MON. WELL NO.:	
GRD. SURFACE ELEVATION:	~7.9'	ELEVATION FROM:	Estimated from topo.	CHECKED BY:	THD

DEPTH (FEET)	BLOWS PER 6"	SAMPR EC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID]
0	10 13	1.55	OU3-A1-SB03-0002 0835			Brown	S-1A = 4" topsoil grass @ surface silty SAND below Trace fine gravel		Dry + loose fill	0 ppm
	18 23	2.0	S-1				S-1B = 1.15' SAND little f-c gravel fill inc. Asphalt, brick & poss. gasket material		- poss. gasket material	
2	18 17	1.2	-0204 0845						Fill inc brick	0 ppm
	21 26	2.0	S-2				Fill		concrete + wood Dry + loose	
4	4 2	0.70	-0406 0855						Dry & loose	0 ppm
	1 2	2.0	S-3				Fill		Fill inc. wood + asphalt	
6	2 1	1.6	-0608 0910	7'			Fill		Dry	0
	1 1	2.0	S-4			Reddish Gray Black	Asbestos fill felt-like consistency fine grained sed. (sand + silt) large quanity of asbestos fibers + blotches of white x-talline substance		Moist	90 ppm
8	2 2	1.7	-0810 0925	9'					Saturated @ 9'	18 ppm
	1 1	2.0	S-5			Black	Oily gravelly fill, inc. SAND + TR. SILT. Fill inc. steel, brake pads		Brake pads + debris	
10	W.O.H. 2	1.6	-1012 0940				SILT top 6" are loose + very wet	ML	Saturated	45 ppm
	2 2	2.0	S-6				Trace. Fine SAND. Few little org. debris (roots + Plant)		Light sheen noted	
12	2 3	1.9	-1214 0955				S-7A – 4" fill – brake pads + silty, gravelly SAND		Saturated	278 ppm
	3 3	2.0	S-7			Gray	S-7B = SILT tr. f-sand some org. debris grading into peat in nose.	PT		
14	3 3	0.9	-1416 1010			Tan	SAND mostly f-m poorly graded	SP	Saturated	45 ppm
16	6 6	2.0	S-8			Gray Mottled	SAND Tr. f-c gravel 1 piece 3.5" Diam. gravel in			

EOB @16'

TYPE OF DRILLING RIG:	CME-75 (truck)
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL SAMPLER DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	WATER LEVEL IS 12.2' BGS W/AUGERS @ 14'
OTHER OBSERVATIONS:	LEVEL C - FROM START (0830) TO FINISH (1015)

BORING NO.: A1-SB03

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		
PROJECT NO.:	N7491-0320		
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY:	FMD
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		
GRD. SURFACE ELEVATION:	~7.0'	ELEVATION FROM:	Estimated from topo.

BORING NO.:	A1-SB11		
START DATE:	7-18-97		
COMPLETION DATE:	7-18-97		
MON. WELL NO.:			
CHECKED BY:	THD		

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
	10		OU3-A1-SB11-0002				S-1A = 0.7' - Silty, gravelly, sand. Organic Debris				
0	4	1.6				Brown	(roots + twigs).		Dry + Loose	0	0.5
	4	2.0				Red +	S-1B = 0.9 ' - Asbestos FILL fine gravelly (sand) +		Large QTY of		
	4		1440 S-1			brown	silt. lg. Qty. of asbestos fibers also possible.		fibers.		
	5		-0204				Gasket material. Felt-like consistency.				
2	15	2.0							Dry	5.6	3.5
	26	2.0									
	10		1450 S-2				more fine gravel than s-1b. few - little gravel .				
	5		-0406				SAND. Mostly f-m poorly graded sand				
4	7	1.8				Black	few little fine @ gravel, TR. silt.		Dry – Moist	5.4	3.0
	6	2.0									
	6		1505 S-3				less asbestos than S-1 or S-2.				
	3		-0608			Dark					
6	4	0.7				gray	SAND. Some course. round. gravel.		Saturated	104	8.8
	4	2.0							oily in places Esp.		
	5		1515 S-4			black	Poss. oily stain surrounding gravel. No vis. asbestos.		surronding gravel		
	5		-0810								
8	9	2.0				Brown	Color change from black to brown in bottom 4"		oily staining		
	12	2.0									
	10		1525 S-5								
	10		-1012				S-6 = similar to S-5				
10	8	1.8									
	3	2.0									
	2		1535 S-6								
	2		-1214			Black	S-7A = 0.7' - Similiar to S-5	SW	Saturated	0	1.2
12	2	2.0				Tan/orang	S-7B = 0.9' - sandy, SILT, TR. oxidized				
	7	2.0					Orange seams (vert.)				
	21		1545 S-7			Brown	S-7c = SAND. f-c well graded SAND,				
	10		-1416				TR - few fine gravel (rounded.) TR. Silt.				
14	14	1.7								0	0
	19	2.0									
16	23		1555 S-8								
							EOB @16'				

TYPE OF DRILLING RIG:	
METHOD OF ADVANCING BORING:	
METHOD OF SOIL SAMPLING:	
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	7.0 INSIDE AUGERS, W/AUGER TO 14' BGS
OTHER OBSERVATIONS:	LEVEL C-@ 1440 AUGERS @ 4' S-4-DS-8

Tetra Tech NUS, Inc.

BORING NO.: A1-SB11

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-SB5	
DATE START: 03/31/1994	DEPTH TO WATER: --	LOGGED BY: JH	GROUND EL.:	8.90	
DATE COMPLETED: 03/31/1994	DATE & TIME: --/--/19--/ --	CHECKED BY:	TOTAL DEPTH:	22.00	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	6 13 12 8	6 6 6 6	24	18	Interval= 0012' Screen for: Pb, Cu,PCB,Asbestos	S-1A (0-5in) TOPSOIL AND GRASS. S-1B (5-18in) GRAVELLY SAND - medium sand, fine and coarse gravel, trace fines, glass, cinders, dry, dark brown.	SM
	2.0	S-2	11 22 24 32	6 6 6 6	24	18	Interval= 0204' Screen for: Pb, Cu,PCB,Asbestos	S-2A (0-6in) SAND AND GRAVEL - sand, angular gravel, roots, coal/cinder material, glass, dark brown. S-2B (6-18in) gravelly SAND - sand, gravel, tile pieces, dry, light brown.	SW
	4.0	S-3	11 13 17 20	6 6 6 6	24	4	Interval= 0406' Screen for: Pb, Cu,PCB,Asbestos	S-3 (0-4in) gravelly SAND - coarse sand, some rounded gravel, trace fines, moist, light brown.	SW
	6.0	S-4	25 32 42 33	6 6 6 6	24	4	Interval= 0608' Screen for: Pb, Cu,PCB,Asbestos	S-4 (0-4in) SAND - sand, trace fine gravel, trace fines, wet, light brown.	SW
	8.0	S-5	6 9 17 16	6 6 6 6	24	20	Interval= 0810' Screen for: Pb, Cu,PCB,Asbestos	S-5 (0-20in) SAND AND GRAVEL - fine to coarse sand, fine and coarse rounded gravel, trace fines, wet, light brown.	SW
	10.0	S-6	9 15 17 21	6 6 6 6	24	19	Interval= 1012' Screen for: Pb, Cu,PCB,Asbestos	S-6 (0-19in) SAND AND GRAVEL - Similar to S-5, slightly finer grained.	SW
	12.0	S-7	17 22 37 36	6 6 6 6	24	20	Interval= 1214' Screen for: Pb, Cu,PCB,Asbestos	S-7 (0-20in) SAND AND GRAVEL - Similar to S-5.	SW
	14.0	S-8	5 7 9 10	6 6 6 6	24	20	Interval= 1416' Screen for: Pb, Cu,PCB,Asbestos	S-8 (0-20in) SAND AND GRAVEL - Similar to S-7.	SW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with HSA to 20ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-22ft. Performed continuous sampling in 2ft increments. Backfilled boring. Soils appeared wet at 6 ft bgs. Possible water table. NR=Not recorded or log.

ACAD NAME:A:\MF-SB5_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-SB5	
DATE START: 03/31/1994	DEPTH TO WATER: --	LOGGED BY: JM	GROUND EL.:	8.90	
DATE COMPLETED: 03/31/1994	DATE & TIME: --/--/19--/ --	CHECKED BY:	TOTAL DEPTH:	22.00	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	7 6 5 7 / 6 6 6	24	0	NO RECOVERY	S-9 (0m) NO RECOVERY. Possibility that a large piece of gravel blocked end of split-barrel and pushed through sand.	
	18.0	S-10	16 18 21 36 / 6 6 6 6	24	23	Interval= 1820' screen for Pb, Cu,PCB,Asbestos	S-10A (0-20in) SAND AND GRAVEL - sand and fine gravel, trace fines, gray to brown.	SW
							S-10B (20-23in) SAND - sand, some fines, moist, brown.	SP
	20.0	S-11	12 13 22 23 / 6 6 6 6	24	24	Interval= 2022' screen for Pb, Cu,PCB,Asbestos	S-11A (8-16in) SAND AND GRAVEL - sand, fine gravel trace fines, gray to brown.	SW
							S-11B (16-24in) SAND - sand, trace fines, bedding lineaments, brown.	SP
	22.0						EOB @ 22 Ft bgs. Backfilled, no well installed.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with HSA to 20Ft bgs. Advanced 3in split-barrel sampler with a 300lb hanner 0-22Ft. Performed continuous sampling in 2Ft increments. Backfilled boring. Soils appeared wet at 6 Ft bgs. Possible water table. NR=Not recorded on log.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MF-SB5_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-SB6	
DATE START: 03/31/1994	DEPTH TO WATER: --	LOGGED BY: MS.DN	GROUND EL.:	9.60	
DATE COMPLETED: 03/31/1994	DATE & TIME: --/--/19-- --	CHECKED BY:	TOTAL DEPTH:	18.00	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	3 5 9 18 — 6 6 6	24	18	Interval= 0002' Screen for: Pb, Cu,PCB,Asbestos	S-1A (0-6in) SANDY SILT, some organics, dark brown fine gravel @ 6in, grey. S-1B (6-18in) gravelly SILTY SAND, silt. Fine sand some coarse gravel up to 1 in, light brown.	
	2.0	S-2	26 17 19 38 — 6 6 6	24	19	Interval= 0204' Screen for: Pb, Cu,PCB,Asbestos	S-2A (0-13in) gravelly SILTY SAND - fine to medium sand, silt, fine and coarse angular gravel from 0.5 to 1.5 inches, light brown. S-2B (13-19in) FILL - black fine grained soil, asbestos fibers, rock fragments, shards, light brown to black.	
	4.0	S-3	8 10 12 9 — 6 6 6	24	0	NO RECOVERY.	S-3 (0in) NO RECOVERY. Rock Frags may have prevented collection of sample.	
	6.0	S-4	4 5 6 6 — 6 6 6	24	8	Water observed. Screen for: Pb, Cu,PCB,Asbestos	S-4 (8in) SAND - fine to coarse sand, well graded, trace silt, trace peat at 4inches, wet at 4inches, brown.	
	8.0	S-5	2 3 3 3 — 6 6 6	24	17	Interval= 0810' Screen for: Pb, Cu,PCB,Asbestos	S-5A (0-6in) SAND - fine to medium sand, trace silt, light brown. S-5B (6-17in) clayey SILT - silt with some fine organic material (roots), clay, dark grey.	
	10.0	S-6	1 1 1 2 — 6 6 6	24	24	Interval= 1012' Screen for: Pb, Cu,PCB,Asbestos	S-6 (24in) clayey SILT, some organics (roots), dark grey. Similar to S-5.	
	12.0	S-7	1 2 2 2 — 6 6 6	24	24	Interval= 1214' Screen for: Pb, Cu,PCB,Asbestos	S-7 (24in) clayey SILT, similar to S-6 with more organic material (peat), dark brown.	
	14.0	S-8	1 2 2 3 — 6 6 6	24	24	Interval= 1416' Screen for: Pb, Cu,PCB,Asbestos	S-8 (24in) clayey SILT, some organics (peat is found throughout the split-barrel), dark brown. Less clay than S-7.	

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
SS = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN. = Penetration length of sampler
REC. = Length of sample recovered
GW = Noted groundwater table

NOTES:

Advanced soil boring with HSA to 16ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-18ft. Performed continuous sampling in 2ft increments. Backfilled boring. Soils appeared wet at 6 ft bgs. Possible water table. NR=Not recorded on log.

ACAD NAME:A:\MF-SB6_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-SB6		
DATE START: 03/31/1994	DEPTH TO WATER: --	LOGGED BY: MS,DM	GROUND EL.: 9.60		
DATE COMPLETED: 03/31/1994	DATE & TIME: --/--/19-- --	CHECKED BY:	TOTAL DEPTH: 18.00		

ELEVATION IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	2 2/2 3 — 6 6 6	24	24	Interval= 16.18' Screen For: Pb, Cu,PCB,Asbestos	S-9 (24in) SILTY CLAY - mostly clay, some silt, organic material present (peat). Able to roll soil into thin (1/8in thick) threads. EOB @ 18 ftbgs. Backfill boring from 18 t 2ft with bentonite; 2 to 0 ft with sand. No well installed	
	18.0							

LEGEND

TYPE-NO. = Type of Sample
S-# = Split spoon sample
C-# = Rock core sample
U-# = Shelby tube sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; number of blows per foot of rock core
PEN. = Penetration length of sampler
REC. = Length of sample recovered
▽ = Measured groundwater table

NOTES:

Advanced soil boring with HSA to 16ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-18ft. Performed continuous sampling in 2ft increments. Backfilled boring. Soils appeared wet at 6 ft bgs. Possible water table. NR=Not recorded on log.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MF-SB6_B.DWG (8/25/99)

BORING LOG FOR:	Raymark OU6			BORING NO.:	PP-101
PROJECT NO.:	N4106-0320			START DATE:	7/12/02 @ 1025
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/12/02 @ 1220
DRILLED BY (Company/Driller):	ADT/ Mike			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/ KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							∂1.0" grass, roots			
1		1.5 / 2.0	OU6-SO-PP-101-0002 7/12/02 @ 1045	Sand (Fill)		Light Brown	Sand- LITTLE/SOME SILT- TR. GRAVEL (Poorly graded, mostly fine to med. sand w/silt and trace fine and coarse gravel, trace organics.)	SP	Dry, PACM noted in shoe of probe bottom 0.2 ft., brick frags, organics.	PID = 0.0 FID = 0.0
2										
3		1.2 / 2.0	OU6-SO-PP-101-0204 7/12/02 @ 1105	Fill		Light-med. brown	SAND- SOME SILT- TR. GRAVEL (Poorly graded, mostly fine-med. sand w/silt, trace gravel, trace organics)	SM	Dry, moist, PACM noted @ 2.0 ft., brake pads, metal, man made materials noted.	PID = 0.0 FID = 0.0
4										
5		1.8 / 2.0	OU6-SO-PP-101-0406 7/12/02 @						Moist, wet, PACM noted, brake pads.	PID = 0.0 FID = 62.0
6							Increased organics and moisture content.			
7		0.6 / 2.0	OU6-SO-PP-101-0608 7/12/02 @ 1145						Wet, PACM noted, metals, pads of brakes, fiberous material. Large ∂ 4" piece material in shoe.	PID = 0.0 FID = 35.1
8						Dk. Brown black	SAND- TR. SILT- TR.GRAVEL (poorly graded, mostly med. to coarse sand, trace silt, trace fine-coarse gravel)	SP		
9		1.7 / 2.0	OU6-SO-PP-101-0810 7/12/02 @ 1205						Wet, ∂1.0 ft. water in sleeve, organic material, plastics. In upper interval of sample.	PID = 0.0 FID = 231
10				Silty Sand			Bottom 1.3 ft. from 6-8 ft. interval poorly graded sand, fine sand, w/silt, organics slight sulfur odor.	SM		
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring Equip. FID (A) PID (A). 1 –Bottom of Exploration, B.O.E. @ 10.0 ft. bgs, natural material (marsh bottom) noted @ approx. ∂9.3 ft., organics noted. Slight sulfur odor, fine sand & silt, no PACM noted below 9.3 ft.	BORING NO.: PP-101	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	PP-102
PROJECT NO.:	N4106-0320			START DATE:	7/16/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/16/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/ KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass			
1		1.25 / 2.0	OU6-SO-PP-102-0002 7/16/02 @ 1515 (1)	Topsoil ↓ Sand ↓ Sand w/silt ↓ Sand		Brown	Silty SAND (Mostly silt & fine sand, trace coarse sand)	SM	Dry, fill material, No PACM noted.	PID = 0.0 FID = 0.0
2						Dark gray	Bottom 0.3', SAND- TR. GRAVEL (Well graded, mostly fine to med. sand w/ some coarse sand, trace gravel)	SW		
3		1.2 / 2.0	OU6-SO-PP-102-0204 7/16/02 @ 1520				↓	↓	Fill material, dry, no PACM identified.	PID = 0.0 FID = 0.0
4						↓	Bottom 0.4 ft. SAND- SOME SILT- TR. GRAVEL Poorly graded, mostly fine sand, w/ some silt,	SP-SM		
5		0.1 / 2.0	No Sample Taken			↓	trace coarse sand & gravel)		Poor recovery in spoon, unable to collect sample.	
6						Light gray	SAND (Poorly graded, mostly coarse sand)	SP		
7		0.2 / 2.0	OU6-SO-PP-102-0608 7/16/02 @ 1550				↓	↓	No man made material noted in sample, sample was wet.	PID = 0.0 FID = 45.4
8						↓	↓			
9		2.0 / 2.0	OU6-SO-PP-102-0810 7/16/02 @ 1555	Organic silt		↓	Organic silt, (Mostly SILT w/ some organics)	OL/OH	Wet, slight sulfide odor, no man made material noted.	PID = 0.0 FID = 105
10 (2)				B.O.E.		Gray		↓		

TYPE OF DRILLING RIG:	Track Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:		BORING NO.: PP-102	PAGE: 1 OF 1

1 – confirmation sample collected from 0-2'.
2 – 10.0 ft. is Bottom of Exploration (B.O.E.), natural soils encountered.

BORING LOG FOR:	Raymark OU6			BORING NO.:	PP-103
PROJECT NO.:	N4106-0320			START DATE:	7/16/02
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/17/02
DRILLED BY (Company/Driller):	ADT/ Mike			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/ KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ □□□□□L or L ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.3 / 2.0	OU6-SO-PP-103-0002	grass		Brown	SAND (Well graded, mostly fine sand w/ some	SW	Fill material, dry, piece of wood and frac. rock noted.	PID = 0.0
			7/16/02 @ 1645							FID = 0.0
2				Fill			med. to coarse sand and frac. rock pieces.)			
3		No measurable recovery, tube stuck in macro core	OU6-SO-PP-103-0204			Light			Fill, dry, piece of asphalt noted in sample.	PID = 0.0
			7/16/02 @ 1655			brown				FID = 0.8
4										
5		1.6 / 2.0	OU6-SO-PP-103-0406	Sand		Dark	Silty SAND- TR. GRAVEL (Mostly silt and	SM	PACM identified in soil. Frac. rock noted moist sample.	PID = 0.0
			7/16/02 @ 1700			gray	fine sand w/some med. sand, trace gravel.)			FID = 105.5
6										
7		Poor recovery	OU6-SO-PP-103-0608						PACM identified, sample is wet.	PID = 0.0
			7/16/02 @							FID = 43.5
8							SAND- TR. SILT (poorly graded, mostly	SP		
9		Poor recovery 0.2 / 2.0	OU6-SO-PP-103-0810				coarse sand w/some med. sand, trace silt.)		Saturated, fill material, large piece of concrete noted.	PID = 0.0
			7/17/02 @ 0900							FID = 5.2
10										
11		No Recovery (1)	No soil to collect Sample.				NO RECOVERY			
12										
13		2.0 / 2.0	OU6-SO-PP-103-1214	Organic silt		Dark gray	Organic silt, (Mostly SILT and ORGANICS)	OL/O	Sample is moist, no man made material identified.	PID = 0.0
			7/17/02 @ 0930							FID = 47.0
14 (2)										
				B.O.E.						

TYPE OF DRILLING RIG:	Track Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S Instrument Group E.	BORING NO.: PP-103	PAGE: 1 OF 1

1 – There was no recovery for the 10-12 ft. interval so no sample could be collected.
2 – Bottom of exploration (B.O.E.) at 14.0 ft. natural soils encountered.

BORING LOG FOR:	Raymark OU6	BORING NO.:	PP-104
PROJECT NO.:	N4106-0320	START DATE:	7/17/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/17/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/ KJ

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
							Grass & dirt			
1		1.55 / 2.0	OU6-SO-PP-104-0002 7/17/02 @ 1000	fill				SW	Fill material, dry, asphalt layer noted (0.3) in sample.	PID = 0.0 FID = 0.0
				Asphalt			SAND- TR GRAVEL- TR SILT (Well graded, mostly			
2				Fill			fine to med. sand w/some coarse sand trace gravel and silt.)			
3		1.6 / 2.0	OU6-SO-PP-104-0204 7/17/02 @ 1010						Dry, fill material, pieces of brick and asphalt noted.	PID = 0.0 FID = 0.0
4										
5		1.5 / 2.0	OU6-SO-PP-104-0406 7/17/02 @ 1020						Fill, bottom 1.0 ft. of sample is moist, pieces of brick noted. Possible PACM fibers noted.	PID = 0.0 FID = 134
6							SAND- SOME SILT- TR GRAVEL (Well graded, mostly fine to med. sand	SW-SM		
7		Poor rec. 0.6 / 2.0	OU6-SO-PP-104-0608 7/17/02 @ 1030				w/some coarse sand and silt, trace gravel.)	SP/GP	Wet, frac. concrete brick, possible asphalt.	PID = 0.0 FID = 59.8
8							SAND- SOME GRAVEL- TR SILT (Poorly graded mostly coarse sand & gravel, trace			
9		Poor rec. 0.8 / 2.0	OU6-SO-PP-104-0810 7/17/02 @ 1035				fine sand and silt.)			PID = 0.0 FID = 12.6
10				~9.5 '			Bottom 0.4' organic SILT (Mostly silt and	OL/OH		
11		2.0 / 2.0	OU6-SO-PP-104-1012 7/17/02 @ 1045	Organic silt			organics.)		No man made material observed in sample.	PID = 189.7 FID = 6.5
12										
				BOE						

TYPE OF DRILLING RIG:	Track Mount Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S Instrument Group E.	BORING NO.: PP-104	PAGE: 1 OF 1

1 – Co-located Dup was collected from 0-2 ft. interval Dup. ID OU6-SO-DP05 (asbestos), OU6-SO-DP03 (PCB, Pb, Cu).
2 – Bottom of Exploration (B.O.E.) at 12.0 ft. Natural soils encountered.

BORING LOG FOR:	Raymark OU6	BORING NO.:	PP-105
PROJECT NO.:	N4106-0320	START DATE:	7/17/02 @ 0840
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/17/02 @ 0910
DRILLED BY (Company/Driller):	Chuck Meyer	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/ KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							∂ 0.2 ft. grass, root mass, leaves			
			OU6-SO-PP-105-0001	Sand		Medium Brown	SAND- SOME SILT- TR GRAVEL (Poorly graded	SM	Dry, No PACM or man made material noted.	PID = 0.0 FID = 0.0
1 (1)			7/17/02 @ 0900 (2)	B.O.E. @ 1 ft.		↓	mostly fine to med. sand, w/ silt, tr. fine and coarse gravel, trace organics)	↓		

TYPE OF DRILLING RIG:	Hand Auger
METHOD OF ADVANCING BORING:	Hand Auger
METHOD OF SOIL SAMPLING:	Hand Auger
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Monitoring Equip. FID (A) PID (A).

Tetra Tech NUS, Inc.

BORING NO.: PP-105

1- Bottom of Exploration (B.O.E.) @ 1.0 ft. advanced to refusal after (5) attempts unable to advance past 1.0 ft. no PACM noted.
2- Confirmatory sample collected from 0-1 ft

600 EAST BROADWAY

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 8890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: MF-SB1

DATE START: 03/30/1994 DEPTH TO WATER: -- LOGGED BY: BM,MS,JM GROUND EL.: 9.50

DATE COMPLETED: 03/30/1994 DATE & TIME: --/--/19-- -- CHECKED BY: TOTAL DEPTH: 13.30

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	2 1 3 7 — 6 6 6 6	24	12	MF-SD-SB1-0012 Screen for Pb, Cu,PCB,Asbestos	S-1A(0-2in) Humus - Organic, leaves, sticks, black S-1B(2-12in) Silty Sand - fine to medium sand, some organic material, rounded pebbles up to 1.5in diameter, light brown to olive drab.	SP
	2.0	S-2	16 23 17 11 — 6 6 6 6	24	13	MF-SD-SB1-0214 Screen for Pb, Cu,PCB,Asbestos	S-2A (0-6in) Silty Sand - fine to medium sand, poorly sorted, 1/8 to 1/4in diameter rock chips, brick fragments, light brown. S-2B (6-13in) Sandy silt - slot of rock fragments, 1/8 to 1/4in cinders(?), light grey. Possibly Fill due to the cinder fragments.	SM SM
	4.0	S-3	37 24 7 3 — 6 6 6 6	24	3	MF-SD-SB1-0406 Used 3in barrel Not screened	S-3 (0in) No recovery. A 3-in cobble blocked end of sample barrel.	
	6.0	S-4	5 5 4 4 — 6 6 6 6	24	24	MF-SD-SB1-0608 3in barrel, Pb, Cu,PCB,Asbestos	S-4A(0-14in) Sandy silt, some organic material, 1in rock fragments, dark grey. S-4B(14-24in) Silty Sand, rock fragments to 2in.	
	8.0	S-5	5 7 6 6 — 6 6 6 6	24	24	MF-SD-SB1-0810 3in barrel, Pb, Cu,PCB,Asbestos	S-5A(0-16in) Silty Sand, rock fragments up to 2in dark gray. S-5B(16-24in) Sand, fine to medium grained, dark gray.	
	10.0	S-6	7 4 4 4 — 6 6 6 6	24	11	MF-SD-SB1-1012 3in barrel, Pb, Cu,PCB,Asbestos	S-6 (0-11in) Silty Sand - fine to medium sand, angular rock fragments up to 3/4in diameter, dark gray.	SM
	12.0	S-7	5 2 2 4 — 6 6 6 6	24	20	MF-SD-SB1-1214 3in barrel, Pb, Cu,PCB,Asbestos	S-7A(0-12in) Silty Sand - fine to medium sand, some silt, trace gravel, dark gray, wet. PID deflection on sample = 0.0ppm. S-7B(12-20in) Peat, plant debris up to 70 percent. PID deflection up to 25 ppm on sample.	SM Pt
	14.0	S-8	4 3 2 2 — 6 6 6 6	24	24	MF-SD-SB1-1416 3in barrel, Pb, Cu,PCB,Asbestos	S-8A(0-8in) Peat, brown. S-8B(8-16in) Sand, fine to medium. S-8C(16-24in) Peat, brown.	Pt SP Pt

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with 6.25in ID HSA. Advanced 2in and 3in split-barrel samplers with a 140lb hammer. Performed continuous soil sampling in 2-foot increments.

ACAD NAME:A:\MF-SB1_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-SB1

DATE START: 03/30/1994 DEPTH TO WATER: -- LOGGED BY: DH,MS,JH GROUND EL.: 9.60

DATE COMPLETED: 03/30/1994 DATE & TIME: --/--/19-- -- CHECKED BY: TOTAL DEPTH: 18.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	4 4 3 4 / 6 6 6 6	24	22	MF-SD-SB1-1618 3in barrel. Pb, Cu,PCB,Asbestos.	S-9(0-22in) Peat - approximately 70 percent plant debris, damp, brown. PID deflection on sample up to 25ppm. End of Boring @ 18ft bgs. No well installed. Borehole collapsed as augers were removed. Void space from 0 to 4 ft bgs filled with cement.	Pt
	18.0							

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
Ψ = Natural groundwater table

NOTES:

Advanced soil boring with 6.25in ID HSA. Advanced 2in and 3in split-barrel samplers with a 140lb hammer. Performed continuous soil sampling in 2-foot increments.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MF-SB1_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO | BORING NO: MF-SB2

DATE START: 03/30/1994 | DEPTH TO WATER: -- | LOGGED BY: JM,DM,KJ | GROUND EL.: 10.00

DATE COMPLETED: 03/30/1994 | DATE & TIME: --/--/19-- -- | CHECKED BY: | TOTAL DEPTH: 22.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	1 6 3 9 / 6 6 6 6	24	11	MF-SO-SB2-0012 2in barrel. Pb, Cu,PCB,Asbestos	S-1(11in) gravelly SILTY SAND - mostly fine to medium sand, trace coarse sand, some silt, little coarse subrounded gravel up to 1in in length, poorly graded, asphalt pieces, root material, brown.	SM/FILL
	2.0	S-2	6 24 38 20 / 6 6 6 6	24	17	MF-SO-SB2-0204 2in barrel. Pb, Cu,PCB,Asbestos	S-2(17in) gravelly SILTY SAND - Similar to S-1 with fine subrounded gravel up to 0.5in length, coarse subrounded gravel up to 1in length, brick pieces, asphalt pieces, rock fragments, dark brown	SM/FILL
	4.0	S-3	8 16 17 16 / 6 6 6 6	24	15	MF-SO-SB2-0406 2in barrel. Pb, Cu,PCB,Asbestos	S-3A(11in) gravelly SILTY SAND - Similar to S-2, brown to black.	SM/FILL
							S-3B(4in) gravelly SILTY SAND - Fine to medium sand, poorly graded, trace to some silt, coarse subrounded gravel up to 1in in length, root fibers grey	SM/FILL
	6.0	S-4	10 10 8 15 / 6 6 6 6	24	24	MF-SO-SB2-0608 2in barrel. Pb, Cu,PCB,Asbestos	S-4(24in) SILTY SAND - Fine to medium sand, poorly graded, some silt, non plant-like fibrous material asphalt pieces, grey.	SM/FILL
	8.0	S-5	1 1 2 1 / 6 6 6 6	24	15	MF-SO-SB2-0810 2in barrel. Pb, Cu,PCB,Asbestos	S-5(15in) SILTY SAND - Similar to S-4.	SM/FILL
	10.0	S-6	1 1 1 1 / 6 6 6 6	24	14	MF-SO-SB2-1012 2in barrel. Pb, Cu,PCB,Asbestos	S-6(14in) SILTY SAND - fine to medium sand, some silt, trace fine gravel, brick pieces, twigs, asphalt pieces, dark grey.	SM/FILL
	12.0	S-7	1 1 1 1 / 6 6 6 6	24	23	MF-SO-SB2-1214 2in barrel. Pb, Cu,PCB,Asbestos	S-7(23in) SAND - fine to medium sand, trace silt, trace fine gravel, brick pieces, asphalt pieces, dark grey.	SP/FILL
	14.0	S-8	3 3 3 3 / 6 6 6 6	24	14	MF-SO-SB2-1416 3in barrel. Pb, Cu,PCB,Asbestos	(3-inch split spoon used for S-8 to S-11) S-8(14in) SILTY SAND - fine to medium sand, some silt, trace fine gravel, trace coarse subangular gravel up to 1in in length, asphalt.	SM/FILL

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring w/6.25in ID HSA 0-20Ft bgs. Advanced 2in OD split-barrel 0-14 Ft; 3in split-barrrel 14-22Ft w/140 lb hammer. Performed continuous sampling in 2ft increments. Tentative contact identified in S-13 based on recovered sample.

ACAD NAME: RAYNARK\BORINGS_ALTERED\MF-SB2_A.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-SB2

DATE START: 03/30/1994 DEPTH TO WATER: -- LOGGED BY: JM,BM,KJ GROUND EL.: 0.00

DATE COMPLETED: 03/30/1994 DATE & TIME: --/--/19-- -- CHECKED BY: TOTAL DEPTH: 22.0

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	USCS
	16.0	S-9	6 3 6 4	6 6 6 6	24	8	MF-SO-SB2-1618 3in barrel Pb, Cu,PCB,Asbestos	S-9A(8in) SILTY SAND - fine to medium sand, some silt, trace fine gravel, asphalt pieces, brick pieces, dark gray.	SM/FILL
							S-9B(2in) PEAT - Organic fibrous material.	PT
	18.0	S-10	2 3 2	6 6 6	24	24	MF-SO-SB2-1820 3in barrel Pb, Cu,PCB,Asbestos	S-10A(20in) SILTY SAND - fine to medium sand, some silt, trace fine gravel, gray-black.	SM
							S-10B(4in) PEAT - Organic fibrous material.	PT
	20.0	S-11		6 5 6	24	24	MF-SO-SB2-2022 3in barrel Pb, Cu,PCB,Asbestos	S-11(24in) ORGANIC SILT - some silt, some peat (fibrous organic-like material), some fine sand, poorly graded, brown.	OL
	22.0							COB @ 22ft bgs. No well installed. Borehole backfilled with alternating amounts of bentonite pellets and silica sand.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring w/6.25in ID HSA 0-20ft bgs. Advanced 2in OD split-barrel 0-14 Ft; 3in split-barrrel 14-22ft w/140 lb hammer. Performed continuous sampling in 2Ft increments. Tentative contact identified in S-10 based on recovered sample.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MF-SB2_B.DVG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-SB3	
DATE START: 03/31/1994	DEPTH TO WATER: --	LOGGED BY: MES,DH	GROUND EL.:	9.80	
DATE COMPLETED: 03/31/1994	DATE & TIME: --/--/19--/ --	CHECKED BY:	TOTAL DEPTH:	23.80	

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	1 3 20 24 / 6 6 6 6	24	16	MF-SO-SB3-0032 Screen for Pb, Cu,PCB,Asbestos	S-1(0-6in) SAND - Fine to coarse sand, well graded, trace fine material(2-in thick interval), sub-angular gravel up to 1in, root matter, asphalt, dark brown.	SW
	2.0	S-2	24 18 14 7 / 6 6 6 6	24	11	MF-SO-SB3-0204 Screen for Pb, Cu,PCB,Asbestos	S-2 (10in) SANDY SILT - sandy silt with cross sections of asphalt and other gravel to 1.5in, dark brown.	ML
	4.0	S-3	4 8 10 8 / 6 6 6 6	24	6	MF-SO-SB3-0406 Screen for Pb, Cu,PCB,Asbestos	S-3 (6in) SAND - well graded sand, two pieces of subangular gravel up to 2 inches, saturated.	SW
	6.0	S-4	5 4 3 3 / 6 6 6 6	24	17	MF-SO-SB3-0608 Screen for Pb, Cu,PCB,Asbestos	S-4A(0-8in) SILTY SAND - Similar to S-2. Fine to medium sand, silt, saturated, brown.	SM
							S-4B(8-17in) SILTY SAND - Fine sand, silt, some organic material, black.	SM
	8.0	S-5	1 2 2 3 / 6 6 6 6	24	22	MF-SO-SB3-0810 Screen for Pb, Cu,PCB,Asbestos	S-5 (22in) Organic Silt - Mostly silt with some peat-like organic material.	MO/Pt
	10.0	S-6	1 3 2 2 / 6 6 6 6	24	24	MF-SO-SB3-1012 Screen for Pb, Cu,PCB,Asbestos	S-6(24in) Organic Silt/Peat - Similar to S-5.	MO/Pt
	12.0	S-7	1 1 2 1 / 6 6 6 6	24	24	MF-SO-SB3-1214 Screen for Pb, Cu,PCB,Asbestos	S-7A (0-10in) Organic Silt - mostly organic silt, some medium sand, similar to S-5.	MO
							S-7B (10-24in) SILTY SAND - Fine to medium sand, silt, organic material, light gray.	SM
	14.0	S-8	20 8 11 13 / 6 6 6 6	24	14	MF-SO-SB3-1416 Screen for Pb, Cu,PCB,Asbestos	S-8A(4in) SILTY SAND - Similar to S-7B.	SM
							S-8B(10in) SAND - fine to coarse sand, well graded trace silt. Performed jar shake test to get better idea of sand to silt ratio.	SW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with 4.25in ID HSA. Advanced split barrel samplers with a 140lb hammer. Performed continuous soil sampling in 2-Foot increments.

ACAD NAME:A:\MF-SB3_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-SB3

DATE START: 03/31/1994 DEPTH TO WATER: -- LOGGED BY: MES.DM GROUND EL.: 8.80

DATE COMPLETED: 03/31/1994 DATE & TIME: --/--/19--/ -- CHECKED BY: TOTAL DEPTH: 20.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	6 6 / 9 6 / 11 6 / 11 6	24	17	MF-SD-SB3-1618 Screen for Pb, Cu, PCB, Asbestos	S-9 (17in) SAND - fine to coarse sand, trace sat. trace coarse gravel up to 1.5 inches.	SW
	18.0	S-10	14 6 / 15 6 / 13 6 / 12 6	24	13	MF-SD-SB3-1820 Screen for Pb, Cu, PCB, Asbestos	S-10 (13in) SAND - fine to coarse sand, well graded, trace silt, trace fine gravel.	SW
	20.0						End of borehole @ 20 ft bgs. No well installed. Backfilled soil boring with bentonite pellets from 18 to 2 ft; sand 2 to 0 ft.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with 4.25in ID HSA. Advanced split barrel samplers with a 140lb hammer. Performed continuous soil sampling in 2-foot increments.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MF-SB3_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: WF-SB4
DATE START: 03/31/1994	DEPTH TO WATER: --	LOGGED BY: JM	GROUND EL.: 11.50
DATE COMPLETED: 03/31/1994	DATE & TIME: --/--/19--/ --	CHECKED BY:	TOTAL DEPTH: 18.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	6 8 7 8 / 6 6 6	24	12	Interval=0002. Screen data: Asbestos only.	S-1 (0-12in) GRAVELLY SILTY SAND - sand, some fines, some fine gravel, concrete chunk 3in in size, grass on top, brown, dry.	SM
	2.3	S-2	35 38 55 45 / 6 6 6	24	18	Augers Grinding Concrete/Bould. Augers out.	S-2A (0-12in) SILTY SAND - fine to medium sand, poorly graded, silt, trace fine gravel. S-2B (12-18in) FILL - Large chunk of concrete and brick material with silty sand.	SM
	4.0	S-3	22 22 22 18 / 6 6 6	24	15	Interval= 0406' Screen for: Pb, Cu, PCB, Asbestos	S-3A (0-10in) GRAVELLY SILTY SAND - sand, silt, some angular to subrounded gravel up to 3in in length, chunks of concrete, rock frags, brown, dry S-3B (10-14in) ROCK FRAGMENTS - Black platy material similar to shale S-3C (14-15in) GRAVELLY SILTY SAND - Similar to S-3A.	SM SM
	6.0	S-4	17 26 36 7 / 6 6 6	24	10	Observed water. Screen for: Pb, Cu, PCB, Asbestos	S-4 (0-10in) GRAVELLY SILTY SAND - sand and silt, some fine gravel with crushed concrete chunks up to 3in in length, saturated, brown.	SM
	8.0	S-5	7 8 5 4 / 6 6 6	24	0	NO RECOVERY. FOUND BROKEN BASKET.	S-5 (0in) NO RECOVERY. Due to use of a broken basket, material could not be recovered in the split-barrel.	
	10.0	S-6	6 7 2 3 / 6 6 5	24	5	Interval= 1012' Poten. contact natural soil.	S-6A (0-2in) ORGANIC SILT - silt with organic material, plant fibers, dark brown to gray. S-6B (2-5in) ORGANIC SILT - silt with organic material, trace fine sand.	
	12.0	S-7	4 4 6 7 / 6 6 6	24	24	Interval= 1214' Screen for: Pb, Cu, PCB, Asbestos	S-7 (24in) ORGANIC SILT - silt with organic material, fibers, gray. Note: Brown fibrous chunk of peat in split-barrel basket.	
	14.0	S-8	4 4 7 9 / 6 6 6	24	17	Interval= 1416' Screen for: Pb, Cu, PCB, Asbestos	S-8A (0-12in) ORGANIC SILT/PEAT - silt, gray, with peat-like fibers, light brown. S-8B (12-17in) gravelly SAND - fine to medium sand trace coarse sand, poorly graded, some well rounded gravel up to 1.5in, gray.	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with HSA to 16ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-18ft. Performed continuous sampling in 2ft increments. Backfilled boring. Top of natural material may be near 10ft bgs. Soils appeared to be saturated near 6 ft bgs. NR=not recorded on log; NM = not measured.

ACAD NAME:A:\WF-SB4_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0690 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: MF-SB4

DATE START: 03/31/1994 DEPTH TO WATER: -- LOGGED BY: JN GROUND EL.: 12.50

DATE COMPLETED: 03/31/1994 DATE & TIME: --/--/19--/ -- CHECKED BY: TOTAL DEPTH: 18.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	27 38 49 62 (6 6 6 6)	24	17	Intervals 16-18' Screen for: Pb, Cu, PCB, Asbestos	S-9A (0-7in) ORGANIC SILT - silt with organic material, trace plant fibers, moist, gray. S-9B (7-17in) sandy GRAVEL - mostly fine and coarse well rounded gravel up to 3in in length, some coarse sand. End of Boring @ 18 ft bgs. No well installed. Soil boring backfilled.	GW
	20.0							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with HSA to 16ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-18ft. Performed continuous sampling in 2ft increments. Backfilled boring. Top of natural material may be near 10ft bgs. Soils appeared to be saturated near 6 ft bgs. NR=Not recorded on log; NM = not measured

ACAD NAME: RATMARK\BORINGS_ALTERED\MF-SB4_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO. | BORING NO: WF-SB7

DATE START: 04/25/1994 | DEPTH TO WATER: -- | LOGGED BY: JM | GROUND EL.: 10.40

DATE COMPLETED: 04/25/1994 | DATE & TIME: --/--/19-- -- | CHECKED BY: | TOTAL DEPTH: 22.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	10 5 8 10 / 6 5 5 6	24	13.5	Interval= 0002' Screen for: Pb, Cu,PCB,Asbestos	S-1 (0-13.5) gravelly SAND - medium sand, poorly graded, some subrounded to angular gravel up to 1 inch, little plant roots and debris, asphalt, dry, brown.	
	2.0	S-2	12 18 13 31 / 6 6 6 6	24	17	Interval= 0204' Screen for: Pb, Cu,PCB,Asbestos	S-2 (0-17in) gravelly silty SAND - medium sand, poorly graded, some silt, some subrounded to sub-angular gravel, trace plant debris, little asphalt little concrete, trace brick, dry, brown.	
	4.0	S-3	15 12 18 21 / 6 6 6 6	24	19	Interval= 0406' Screen for: Pb, Cu,PCB,Asbestos	S-3 (0-19.5in) gravelly SILTY SAND - poorly graded some silt, little subrounded to subangular gravel, little concrete, little asphalt, inch layer of fibrous hair-like material with splotches of red color, dry. Splotches typically exclusive to 1-3inch layers.	
	6.0	S-4	14 21 31 18 / 6 6 6 6	24	6	Pot. Water Tab. Screen for: Pb, Cu,PCB,Asbestos	S-4 (6in) SAND and GRAVEL, little silt, bottom of sample wet, dark brown.	GP
	8.0	S-5	6 8 5 3 / 6 6 6 6	24	2	Interval= 0810' Screen for: Pb, Cu,PCB,Asbestos	S-5 (2in) silty SAND, trace gravel, brown, wet.	
	10.0	S-6	3 2 31 46 / 6 6 6 6	24	14	Interval= 1012' Screen for: Pb, Cu,PCB,Asbestos	S-6 (0-14in) SILT and SAND, some gravel, little concrete, trace fibrous hair-like material, brown, wet.	SM
	12.0	S-7	1 1 3 3 / 6 6 6 6	24	13	Interval= 1214' Screen for: Pb, Cu,PCB,Asbestos	S-7A (0-8in) SANDY SILT, some gravel, little fibrous hair-like material (1/2in layer), brown black. S-7B (8-13in) silty SAND, dark gray.	
	14.0	S-8	3 31 38 11 / 6 6 6 6	24	24	TCLP sample. Screen for: Pb, Cu,PCB,Asbestos	S-8A (0-4in) sandy SILT, low plasticity, little fibrous material, brown-gray. S-8B (9-17in) PEAT, some fibrous organic material, some silt, moderate plasticity, gray/black. S-8C (17-24in) PIECE OF WOOD.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring with 6.25in ID HSA to 20ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-22Ft. Performed continuous sampling in 2Ft increments. Backfilled boring. Soils appeared wet at 6 ft bgs. Possible water table. Possible top of natural material at 18-20Ft. NR=Not recorded on log.

ACAD NAME: RAYMARK\BORINGS_ALTERED\WF-SB7_A.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0896 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-SB7

DATE START: 04/25/1994 DEPTH TO WATER: -- LOGGED BY: JH GROUND EL.: 13.40

DATE COMPLETED: 04/25/1994 DATE & TIME: --/--/19-- -- CHECKED BY: TOTAL DEPTH: 22.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	11 6 / 8 6 / 7 6 / 7 6	24	9	Interval= 16.18' Screen for: Pb, Cu,PCB,Asbestos	S-9 (0-9in) sandy SILT, low plasticity, some wood pieces (fibrous), black.	ML
	18.0	S-10	8 6 / 5 6 / 8 6 / 11 6	24	15	Natural mat. ? Screen for: Pb, Cu,PCB,Asbestos	S-10 (0-7in) Fibrous plant debris and SILT, low plasticity, black. S-10B (7-15in) silty SAND, little gravel, dark brown to gray.	
	20.0	S-11	7 6 / 8 6 / 21 6 / 26 6	24	24	Natural mat. ? Screen for: Pb, Cu,PCB,Asbestos	S-11A (0-8in) silty SAND, some gravel, trace wood pieces, dark brown/gray. S-11B (8-24in) SAND and GRAVEL, little silt, reddish mottled color. EOB @ 22ft bgs. Backfilled. No well installed.	
	22.0							

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
∇ - Natural groundwater table

NOTES:

Advanced boring with 6.25in ID HSA to 20ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-22Ft. Performed continuous sampling in 2Ft increments. Backfilled boring. Soils appeared wet at 6 ft bgs. Possible water table. Possible top of natural material at 18-20Ft. NR=Not recorded on log.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MF-SB7_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-SB8

DATE START: 04/24/1994 DEPTH TO WATER: -- LOGGED BY: JM GROUND EL.: 8.90

DATE COMPLETED: 04/24/1994 DATE & TIME: --/--/19-- -- CHECKED BY: _____ TOTAL DEPTH: 14.20

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	5 6 11 6 13 6 38 6	24	18	Interval=0052' Screen for Pb, Cu,PCB,Asbestos	S-1A (0-12in) SAND, some gravel, trace silts, little roots (bark mulch surface). S-1B (12-18in) SAND, concrete, asphalt, trace glass, dry, brown.	
	2.0	S-2	11 6 18 6 30 6 21 6	24	5	Interval= 0234' Screen for Pb, Cu,PCB,Asbestos	S-2 (0-5.5in) SAND and GRAVEL, little silt, concrete, trace asphalt, trace brick, dry, dk brown.	
	4.0	S-3	15 6 15 6 11 6 18 6	24	14	Auger scraping. Screen for Pb, Cu,PCB,Asbestos	S-3A (0-12in) Med. SAND, some asphalt, some concrete, dry, dark brown. S-3B (12-14in) RED BRICK.	
	6.0	S-4	3 6 3 6 5 6 6 6	24	18	TCLP sample. Screen for Pb, Cu,PCB,Asbestos	S-4A (0-4in) SAND, some gravel, trace silt, dk grey/green, wet. S-4B (4-9in) sandy SILT, moderate plasticity, some wood fibers, black. S-4C (9-18in) PEAT and SILT, little gravel, trace sand, mod. plas., little fibrous hair-like mat.	
	8.0	S-5	5 6 2 6 7 6 9 6	24	4	Interval= 0810' Screen for Pb, Cu,PCB,Asbestos	S-5 (0-4in) silty SAND, some gravel, trace brick, wet, dk brown.	SW
	10.0	S-6	5 6 10 6 12 6 13 6	24	24	Nat. material ? Screen for Pb, Cu,PCB,Asbestos	S-6A (0-8in) silty SAND, trace brick, dk gray. S-6B (8-24in) SAND and GRAVEL, reddish mottled color. Possible start of natural material.	
	12.0	S-7	10 6 9 6 9 6 7 6	24	11	Nat. material ?	S-7 SAND and GRAVEL, well graded sand and gravel, subrounded subangular gravel (1"), dark brown, wet. COB @ 12ft bgs HSA 4 1/4-inch ID. 14ft bgs ss 3-inch OD.	

LEGEND:

TYPE-NO. - Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

Advanced boring with 4.25in ID HSA to 12ft bgs. Advanced 3in split-barrel sampler with a 300lb hammer 0-14ft. Performed continuous sampling in 2ft increments. Backfilled boring. Soils appeared wet at 6 ft bgs. Possible water table. Possible top of natural material at 10-12ft. NR=Not recorded on log.

ACAD NAME: RAYNARK\BORINGS_ALTERED\MF-SB8.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 8890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO	BORING NO: MF-MW101S		
DATE START: 04/12/1994	DEPTH TO WATER: 6.39	LOGGED BY: DH	GROUND EL.: 9.50		
DATE COMPLETED: 04/12/1994	DATE & TIME: 05/16/1994 @505	CHECKED BY:	TOTAL DEPTH: 15.40		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A				Auger borehole Readvance w/10 in casing 0-10'	FOR SOIL AND ROCK DESCRIPTIONS SEE BORING LOG FOR MF-MW101D.	
	10.0	B				Telescope 6in casing; Spin & wash technique.		
	15.0	C					EOB @ 15.4FT. INSTALLED WELL, SEE CONSTRUCTION LOG FOR MF-MW101S.	

LEGEND:

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN – Penetration length of sampler
REC – Length of sample recovered
▽ – Natural groundwater table

NOTES:

MW101S REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW101D FOR SOIL AND/OR ROCK DESCRIPTIONS.

ACAD NAME:A:\MW101S_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-HW101M		
DATE START: 04/12/1994	DEPTH TO WATER: 8.65	LOGGED BY: DH	GROUND EL.: 9.10		
DATE COMPLETED: 04/12/1994	DATE & TIME: 05/16/1994/1505	CHECKED BY:	TOTAL DEPTH: 27.28		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A				Auger to 10'. Readvance w/10" casing.	FOR SOIL AND ROCK DESCRIPTIONS SEE BORING LOG FOR MF-HW101D.	
	10.0	B				Telescope 6in casing @ 10'. Spin & Wash.		

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

HW101M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-HW101D FOR SOIL AND/OR ROCK DESCRIPTIONS.

ACAD NAME: A:\HW101M_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: NF-MW101M
DATE START: 04/12/1994	DEPTH TO WATER: 8.05	LOGGED BY: DH	GROUND EL.: 9.10
DATE COMPLETED: 04/12/1994	DATE & TIME: 05/16/1994/1505	CHECKED BY:	TOTAL DEPTH: 27.08

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	27.0	C					EOB AT 27FT 1IN. WELL INSTALLED. SEE CONSTRUCTION LOG FOR NF-MW101M.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered
Ψ - Natural groundwater table

NOTES:

MW101M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG NF-MW101D FOR SOIL AND/OR ROCK DESCRIPTIONS.

ACAD NAME\A\MW101M_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: SB-MW101D

DATE START: 04/04/1994 DEPTH TO WATER: 7.40 LOGGED BY: JM GROUND EL.: 8.50

DATE COMPLETED: 04/07/1994 DATE & TIME: 05/16/1994 /1505 CHECKED BY: _____ TOTAL DEPTH: 73.33

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	8 7 8 9 / 6 6 6 6	24	9	Interval= 0002' Screen for: Pb, Cu,PCB,Asbestos	S-1 (0-9in) SAND, trace silt, asphalt, root matter brown.	SM
	2.0	S-2	11 10 13 20 / 6 6 6 6	24	16	Interval= 0204' Screen for: Pb, Cu,PCB,Asbestos	S-2A (0-7in) SAND, similar to S-1.	SM
							S-2B (7-16in) SILTY SAND, subrounded gravel up to 1-inch, lt. gray.	SM
	4.0	S-3	20 17 25 18 / 6 6 6 6	24	24	Interval= 0406' Screen for: Pb, Cu,PCB,Asbestos	S-3A (0-6in) SILTY SAND, asphalt, wood residue, brown.	SM
							S-3B (6-24in) SILTY SAND, subangular gravel up to 1-inch, tan.	SM
	6.0	S-4	5 15 12 17 / 6 6 6 6	24	18	Sheen observed. Screen for: Pb, Cu,PCB,Asbestos	S-4A (0-14in) SILT, some fine-medium sand, some fine gravels, occasional roots.	ML
							S-4B (14-18in) SAND, fine-medium sand, trace silt.	SP
	8.0	S-5	1 1 2 1 / 6 6 6 6	24	18	Interval= 0810' Screen for: Pb, Cu,PCB,Asbestos	S-5A (0-5in) SILTY SAND, fine-medium sand, some silt, brown.	SM
							S-5B (5-18in) PEAT/ORGANIC SILT, organic matter, some silt.	Pt/MD
	10.0	S-6	2 2 2 4 / 6 6 6 6	24	7	Interval= 1012' Screen for: Pb, Cu,PCB,Asbestos	S-6 (7in) PEAT/ORGANIC SILT - Simlar to S-5B.	Pt/MD
	12.0	S-7	1 2 2 3 / 6 6 6 6	24	0	NO RECOVERY. Spinning casing Spin & Wash.	S-7 (0in) NO RECOVERY.	
	14.0	S-8	3 2 2 3 / 6 6 6 6	24	24	Sheen observed. Screen for: Pb, Cu,PCB,ASbestos	S-8A (0-12in) ORGANIC SILT, silt w/ organic matter spread throughout the peat.	MD/Pt
							S-8B (12-24in) SILT, brown. Sheen observed in this interval.	ML

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

Advanced boring w/8.25in ID HSA to 12ft bgs. Spin 6in casing 12-72ft. Use spin&wash method 12'-EOB. Continuous sampling every 2Ft 0-66ft. Advance 3in split-barrel samplers w/140lb hammer 0-66',70',72'. Bedrock @ 72'. Screen above rock. Screen samples For:Pb,Cu,PCB,Asbestos. NM/NR=Not recorded/ measured.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW101D_A.DWG (8/25/99)

CLICK TO CONTINUE

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO	BORING NO: MW-101D		
DATE START: 04/04/1994	DEPTH TO WATER: 7.40	LOGGED BY: JM	GROUND EL.: 8.50		
DATE COMPLETED: 04/07/1994	DATE & TIME: 05/16/1994 /1505	CHECKED BY:	TOTAL DEPTH: 78.33		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	USCS
	16.0	S-9	2 6 4 6 7 6 16 6	24	18	Interval= 1618' Screen for: Pb, Cu,PCB,ASbestos	S-9A (0-13in) SILT, similar to S-8B.	ML
							S-9B (13-18in) SILTY SAND, fine-medium graded sand, some silt, brown.	SM
	18.0	S-10	17 6 18 6 22 6 25 6	24	12	Interval= 1820' Screen for: Pb, Cu,PCB,ASbestos	S-10 (12in) SILTY SAND, well graded sand, some silt, coarse piece of gravel, gray.	SM
	20.0	S-11	17 6 20 6 22 6 14 6	24	18	Interval= 2022' Screen for: Pb, Cu,PCB,ASbestos	S-11 (18in) SILTY SAND, fine-medium graded sand, some silt, subangular gravel, lt. brown.	SM
	22.0	S-12	10 6 12 6 17 6 22 6	24	22	Interval= 2224' Screen for: Pb, Cu,PCB,ASbestos	S-12 (22in) SAND, fine-medium sand, trace silt, piece of subangular gravel, lt. brown.	SP
	24.0	S-13	26 6 24 6 32 6 17 6	24	20	Interval= 2426' Screen for: Pb, Cu,PCB,Asbestos	S-13 (20in) SAND, fine-medium sand, subrounded and subangular gravels, trace silt, lt. brown.	SP
	26.0	S-14	36 6 24 6 35 6 42 6	24	0	Interval= 2628' Screen for: Pb, Cu,PCB,Asbestos	S-14 (0in) NO RECOVERY.	
	28.0	S-15	15 6 16 6 23 6 21 6	24	22	Interval= 2830'	S-15 (22in) SAND - fine sand, trace silt, lt brown	SP
	30.0	S-16	15 6 25 6 32 6 20 6	24	4	Interval= 3032'	S-16 (4in) SAND, similar to S-15.	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8.25in ID HSA to 12ft bgs. Spin 6in casing 12-72ft. Use spin&wash method 12'-EOB. Continuous sampling every 2ft 0-66ft. Advance 3in split-barrel samplers w/140lb hammer 0-66';70',72'. Bedrock @ 72'. Screen above rock. Screen samples for:Pb,Cu,PCB,Asbestos. NM/NR=Not recorded/measured.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW101D_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:		
DATE START: 04/04/1994	DEPTH TO WATER: 7.40	LOGGED BY: JR	GROUND EL.:	8.50	
DATE COMPLETED: 04/07/1994	DATE & TIME: 05/16/1994 1505	CHECKED BY:	TOTAL DEPTH:	72.33	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	32.0	S-17	26 6 34 6 45 6 49 6	24	24	Interval= 3234'	S-17 (24in) SAND, fine-medium sand, trace of coarse sand, lt. brown.	SP
	34.0	S-18	25 6 60 6 22 6 30 6	24	20	Interval= 3436'	S-18 (20in) SAND, similar to S-17.	SP
	36.0	S-19	5 6 7 6 13 6 17 6	24	14	Interval= 3638'	S-19 (14in) SAND, fine-coarse sand, trace silt, trace of fine gravels, lt. brown.	SP
	38.0	S-20	9 6 15 6 24 6 25 6	24	20	Interval= 3840'	S-20 (20in) SAND, fine-coarse sand, trace silt, trace fine gravels.	SP
	40.8	S-21	17 6 20 6 22 6 24 6	24	17	Interval= 4042'	S-21 (17in) SAND, similar to S-20.	SW
	42.0	S-22	12 6 17 6 25 6 24 6	24	18	Interval= 4244'	S-22 (18in) SILTY SAND, fine-medium sand, some silt, light brown/tan.	SM
	44.0	S-23	14 6 22 6 30 6 45 6	24	22	Interval= 4446'	S-23 (22in) SAND, poorly sorted sand, trace silt, lt brown.	SP
	46.0	S-24	49 6 32 6 46 6 50 6	24	24	Interval= 4648'	S-24 (24in) SAND, trace silt, lt brown.	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8.25in ID HSA to 12Ft bgs. Spin 6in casing 12-72Ft. Use spin&wash method 12'-ED8. Continuous sampling every 2Ft 0-66Ft. Advance 3in split-barrel samplers w/140lb hammer 0-66',70',72'. Bedrock @ 72'. Screen above rock. Screen samples for Pb,Cu,PCB,Asbestos. NM/NR=Not recorded/ measured.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW0813_C.DWG (8/25/99)

Click To Continue

BORING LOG

BROWN & ROOT ENVIRONMENT

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: [illegible]

DATE START: 04/04/1994 DEPTH TO WATER: 7.40 LOGGED BY: JM GROUND EL.: 8.50

DATE COMPLETED: 04/07/1994 DATE & TIME: 05/16/1994 /1505 CHECKED BY: _____ TOTAL DEPTH: 72.33

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	48.0	S-25	12 : 6 23 : 6 33 : 6 37 : 6	24	22	Interval= 4850'	S-25 (22in) SAND, trace silt, lt brown.	
	50.0	S-26	27 : 6 32 : 6 25 : 6 28 : 6	24	0	Interval= 5052' NO RECOVERY	S-26 (0in) NO RECOVERY.	
	52.0	S-27	26 : 6 22 : 6 30 : 6 29 : 6	24	0	No Recovery. Retain casing Switch baskets.	S-27 (0in) NO RECOVERY. Advance to next interval.	
	54.0	S-28	10 : 6 12 : 6 25 : 6 33 : 6	24	8	Interval= 5456'	S-28 (8in) SAND, fine-medium sand, trace coarse sand, light brown.	SP
	56.0	S-29	15 : 6 24 : 6 25 : 6 25 : 6	24	7	Interval= 5658'	S-29 (7in) SAND, trace silt, trace gravel, lt brown.	SP
	58.0	S-30	16 : 6 18 : 6 20 : 6 18 : 6	24	18	Interval= 5862'	S-30 (18in) SAND, similar to S-29.	SP
	60.0	S-31	7 : 6 10 : 6 12 : 6 13 : 6	24	24	Interval= 6062'	S-31 (24in) SAND, similar to S-30.	SP
	62.0	S-32	8 : 6 10 : 6 20 : 6 23 : 6	24	16	Interval= 6264'	S-32 (16in) SAND, trace silt, trace fine gravels, lt. brown.	SW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8.25in ID HSA to 12ft bgs. Spin 6in casing 12-72ft. Use spin&wash method 12'-EOB. Continuous sampling every 2Ft 0-66ft. Advance 3in split-barrel samplers w/140lb hammer 0-66';70',72'. Bedrock @ 72'. Screen above rock. Screen samples for:Pb,Cu,PCB,Asbestos. NM/NR=Not recorded/ measured.

ACAD NAME: RATNARK\BORINGS_ALTERED\MW1010_0.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO	BORING NO: MF-MW101D		
DATE START: 04/04/1994	DEPTH TO WATER: 7.40	LOGGED BY: JM	GROUND EL.: 8.90		
DATE COMPLETED: 04/07/1994	DATE & TIME: 05/16/1994 1505	CHECKED BY:	TOTAL DEPTH: 73.33		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	64.0	S-33	7 6 10 6 14 6 12 6	24	18	Interval= 64&66'	S-33 (18in) SAND, trace coarse sand, trace silt, trace gravel, lt. brown.	SP
	66.0	S-34	100/ 5	5	0	Interval= 66 to 66.4ft. Spin casing to 70ft.	S-34 (0in) NO RECOVERY. POSSIBLY WET BEDROCK.	
	70.0	S-35	200/ 3	3	3	Interval= 70 to 70.25ft. Casing advanced to 72	S-35 (3in) GRAVEL, trace sand, trace silt, weathering evident, pieces are plate-like.	
	72.0	S-36	100/ 4	4	4	Interval= 72 to 72ft 4in. Confirm bedrock	S-36 (4in) BEDROCK. Used a split-barrel to penetrate and confirm top of rock. EOB @ 72ft 4in bgs. Set monitoring well MF-MW101D. See well construction log for details.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8.25in ID HSA to 12ft bgs. Spin 6in casing 12-72ft. Use spin&wash method 12'-EOB. Continuous sampling every 2ft 0-66ft. Advance 3in split-barrel samplers w/140lb hammer 0-66';70',72'. Bedrock @ 72'. Screen above rock. Screen samples for Pb,Cu,PCB,Asbestos. NM/NR=Not recorded/measured.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW101D_0.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-MW102S		
DATE START: 04/28/1994	DEPTH TO WATER: 6.31	LOGGED BY: BW	GROUND EL.: 9.60		
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1510	CHECKED BY:	TOTAL DEPTH: 15.40		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A				Auger borehole Readvance w/10 in casing 0-10'	FOR SOIL AND ROCK DESCRIPTIONS SEE BORING LOG FOR MF-MW101D.	
	10.0	B				Telescope 6in casing; Spin & Wash technique.	EOB @ 15.4FT. INSTALLED WELL, SEE CONSTRUCTION LOG FOR MF-MW102S.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
W - Natural groundwater table

NOTES:

MW102S REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW102D FOR SOIL AND/OR ROCK DESCRIPTIONS.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW102S.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-MW102M		
DATE START: 04/28/1994	DEPTH TO WATER: 6.65	LOGGED BY: BV	GROUND EL.: 9.60		
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1510	CHECKED BY:	TOTAL DEPTH: 58.00		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A					FOR SOIL AND ROCK DESCRIPTIONS SEE BORING LOG FOR MF-MW102D.	
	10.0	B				Telescope 6" Casing; Spin & Wash Technique		

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW102M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW102D FOR SOIL AND/OR ROCK DESCRIPTIONS.

ACAD NAME:A:\MW102M.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-MW102H		
DATE START: 04/28/1994	DEPTH TO WATER: 6.65	LOGGED BY: BV	GROUND EL.: 9.60		
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994/1510	CHECKED BY:	TOTAL DEPTH: 32.00		

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	C					EOB @ 32.0 Ft. Installed Well; See Construction Log for MF-MW102H	

LEGEND:

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN – Penetration length of sampler
REC – Length of sample recovered
▽ – Natural groundwater table

NOTES:

MW102H REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW102D FOR SOIL AND/OR ROCK DESCRIPTIONS.

ACAD NAME:A:\MW102H_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-MW102D		
DATE START: 04/04/1994	DEPTH TO WATER: 8.20	LOGGED BY: HS,BW	GROUND EL.: 9.70		
DATE COMPLETED: 04/19/1994	DATE & TIME: 05/16/1994/1510	CHECKED BY:	TOTAL DEPTH: 115.00		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	2 7 12 48 / 6 6 6 6	24	11	Interval=0002 Screen for: Pb, Cu,PCB,Asbestos	S-1(15in) SILTY SAND - silty sand with very angular black chips, gravel piece up to 3/4in, brown.	
	2.0	S-2	16 8 8 8 / 6 6 6 6	24	18	Interval=0204 Screen for: Pb, Cu,PCB,Asbestos	S-2A(0-6in) SILTY SAND - Similar to S-1. S-2B(6-12in) SANDY SILT - sandy silt, brown, with fibers present throughout. S-2C(12in-18in) SILTY SAND - fine sand, silt, dark gray.	
	4.0	S-3	2 3 5 8 / 6 6 6 6	24	24	Interval=0406 Screen for: Pb, Cu,PCB,Asb.,Org	S-3A(0-6in) SANDY SILT, some organics, light brown S-3B(6-12in) SILTY SAND, fine gravel up to 1/2in, light gray. S-3C(12-18in) SANDY SILT - Similar to S-3A. S-3D(18-24in) SILTY SAND, fine sand, silt, sub-rounded gravel up to 1/2in, light gray.	
	6.0	S-4	9 3 4 7 / 6 6 6 6	24	18	Water observed. Screen for: Pb, Cu,PCB,Asbestos	S-4A(0-6in) SANDY SILT interspersed with pink fibrous material. HS reading 3.0ppm. S-4B(6-18in) SILTY SAND with subrounded gravel up to 1 in, light gray. No HS reading.	
	8.0	S-5	2 2 3 6 / 6 6 6 6	24	24	Interval=8-10Ft Screen for: Pb, Cu,PCB,Asbestos	S-5(24in) SILT - silt, some sand, 2-inch thick interval of fine sand at 2in-4in, light gray, asbestos fibers, iron and copper staining.	ML
	10.0	S-6	2 2 2 4 / 6 6 6 6	24	14	End HSA drill. Screen for: Pb, Cu,PCB,Asbestos	S-6(14in) SANDY SILT, organics, roots, brown.	OL
	12.0	S-7	1 3 7 9 / 6 6 6 6	24	24	Start D&W drill. Screen for: Pb, Cu,PCB,Asbestos	S-7(24in) SANDY SILT with organics, roots, dark brown. Nose of split barrel has approximately 2in of medium sand in it.	OL
	14.0	S-8					NOTE: According to the boring log, there is no sample description for the 14-16ft interval. This interval should have been S-8.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'bgs. Pull augers & readvance w/ casing using spin&wash tech. Perform cont. sampling w/3in ID -52'& 2in (52'-115') split-barrel samplers advanced w/140lb hammer. Sampled in 5-6' increments below 82'. Rock likely @ approx. 114'bgs. Well screen(s):1.5-101.5'. See boring log REmarks after well installed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW102D_A.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO | BORING NO: MF-HW102D

DATE START: 04/04/1994 | DEPTH TO WATER: 8.20 | LOGGED BY: MS,BV | GROUND EL.: 9.70

DATE COMPLETED: 04/19/1994 | DATE & TIME: 05/16/1994/1510 | CHECKED BY: | TOTAL DEPTH: 115.00

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-8	3 7 2 4 / 6 6 6 6	24	8	Interval=16-18. Screen for: Pb, Cu, PCB, Asbestos	S-8 (8in) SANDY SILT, organics, dark brown.	OL
	18.0	S-9	7 9 1 6 / 6 6 6 6	24	9	Interval=18-20. Screen: Pb, Cu, PCB, Asbestos	S-9 (9in) SILTY SAND, fine to medium grains, some angular gravel, subrounded gravel up to 1/2in, black.	SM
	20.0	S-10	6 7 12 49 / 6 6 6 6	24	10	Interval=20-22. Screen: Pb, Cu, PCB, Asbestos	S-10 (10in) SILTY SAND, fine to medium sand, trace coarse sand, trace gravel.	SM
	22.0	S-11	20 22 36 47 / 6 6 6 6	24	15	Interval=22-24. Screen: Pb, Cu, PCB, Asbestos	S-11 (15in) SAND, medium to coarse sand, rounded gravels from 1/4 to 3in interspersed, well graded, orange.	SW
	24.0	S-12	27 39 47 67 / 6 6 6 6	24	9	Interval=24-26. Screen: Pb, Cu, PCB, Asbestos	S-12 (9in) SANDY GRAVEL, well graded gravel from 1/4 to >3in with medium to coarse sand.	GW
	26.0	S-13	36 47 56 29 / 6 6 6 6	24	10	Interval=26-28 Screen: Pb, Cu, PCB, Asbestos	S-13 (10in) SANDY GRAVEL - Similar to S-12.	GW
	28.0	S-14	33 33 27 36 / 6 6 6 6	24	16	Interval=28-30 Screen: Pb, Cu, PCB, Asbestos	S-14A (0-6in) SANDY GRAVEL, similar to S-13. S-14B (6-16in) SAND, fine to medium, light brown.	
	30.0	S-15	5 6 7 11 / 6 6 6 6	24	24	Interval=30-32 Screen: Pb, Cu, PCB, Asbestos	S-15 (24in) gravelly SAND, fine to medium sand, trace coarse sand, light brown, some rounded gravel up to 1/4in.	SW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'ags. Pull augers & readvance w/ casing using spin&wash tech. Perform cont. sampling w/3in (0 -52')& 2in (52-115') split-barrel samplers advanced w/140lb hammer. Sampled in 5-6' increments below 82'. Rock likely @ approx. 114'ags. Well screen:111.5-101.5'. See boring log RE:need to redrill after well installed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\HW102D_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO. | BORING NO: MF-MW102D

DATE START: 04/04/1994 | DEPTH TO WATER: 8.20 | LOGGED BY: MS,BV | GROUND EL.: 9.70

DATE COMPLETED: 04/19/1994 | DATE & TIME: 05/16/1994/1510 | CHECKED BY: | TOTAL DEPTH: 115.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	32.0	S-16	57 / 100 (6, 4)	10	0	NO RECOVERY	S-16 (0in) NO RECOVERY.	
	34.0	S-17	65 / 78 / 87 / 98 (6, 6, 6, 6)	24	24	Interval=34-36' Screen for: Pb, Cu,PCB,Asbestos	S-17 (24in) SAND, well graded, light brown, some gravel from 1/4in to 1.5in.	
	36.0	S-18	7 / 13 / 14 / 28 (6, 6, 6, 6)	24	24	Interval=36-38' Screen for: Pb, Cu,PCB,Asbestos	S-18 (24in) SAND, fine grained, poorly graded, light brown.	SP
	38.0	S-19	7 / 9 / 12 / 22 (6, 6, 6, 6)	24	6	Interval=38-40' Screen for: Pb, Cu,PCB,Asbestos	S-19 (6in) SAND - fine sand, poorly graded, rounded gravel >3in in nose of split-barrel.	SP
	40.0	S-20	16 / 19 / 22 / 27 (6, 6, 6, 6)	24	24	Interval=40-42' Screen for: Pb, Cu,PCB,Asbestos	S-20 (24in) SILTY SAND - fine sand, some silt, light brown.	SM
	42.0	S-21	14 / 14 / 14 / 28 (6, 6, 6, 6)	24	18	Interval=42-44' Screen for: Pb, Cu,PCB,Asbestos	S-21 (18in) SILTY SAND - fine sand, some silt, light brown.	SM
	44.0	S-22	5 / 11 / 14 / 17 (6, 6, 6, 6)	24	15	Interval=44-46' Screen for: Pb, Cu,PCB,Asbestos	S-22 (15in) SILTY SAND - fine sand, silt, light brown.	
	46.0	S-23	11 / 15 / 22 / 24 (6, 6, 6, 6)	24	24	Interval=46-48' Screen for: Pb, Cu,PCB,Asbestos	S-23 (24in) SANDY SILT - silt, fine sand, light brown.	

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'bgs. Pull augers & readvance w/ casing using spin&wash tech. Perform cont. sampling w/3in (0 -52'), 2in (52-115') split-barrel samplers advanced w/140lb hammer. Sampled in 5-6' increments below 82'. Rock likely @ approx. 114'bgs. Well screen:111.5-101.5'. See boring log RE:need to regrill after well installed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW102D_C.DWG (8/25/99)

Click Here To Continue

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0696 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO BORING NO: MF-MW102D

DATE START: 04/04/1994 DEPTH TO WATER: 8.20 LOGGED BY: HS,BW GROUND EL.: 9.70

DATE COMPLETED: 04/19/1994 DATE & TIME: 05/16/1994/1510 CHECKED BY: TOTAL DEPTH: 115.00

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	USCS
	48.0	S-24	15 7 9 13 / 6 6 6 6	24	4	Interval=48-50' Screen for Pb, Cu,PCB,Asbestos	S-24 (4in) SANDY SILT.	
	50.0	S-25	6 9 16 20 / 6 6 6 6	24	24	Interval=50-52' Screen for Pb, Cu,PCB,Asbestos	S-25 (24in) SANDY SILT - silt, fine sand, light brown, 1in thick interval of fine sand above thin (2in) clay layer near bottom.	
	52.0	S-26	8 9 11 10 / 6 6 6 6	24	12	2in barrel used Screen for Pb, Cu,PCB,Asbestos	S-26 (12in) SILTY SAND - fine to medium sand, silt light brown.	
	54.0	S-27	15 17 23 28 / 6 6 6 6	24	24	2in barrel used Screen for Pb, Cu,PCB,Asbestos	S-27 (24in) SILTY SAND - Similar to S-27.	
	56.0	S-28	5 7 11 13 / 6 6 6 6	24	10	2in barrel used Screen for Pb, Cu,PCB,Asbestos	S-28 (10in) SAND - fine sand, light brown.	
	58.0	S-29	8 7 16 18 / 6 6 6 6	24	15	2in barrel used Screen for Pb, Cu,PCB,Asbestos	S-29 (15in) SILTY SAND - fine to medium sand, silt light brown.	
	60.0	S-30	4 7 11 14 / 6 6 14 6	24	16	2in barrel used Screen for Pb, Cu,PCB,Asbestos	S-30 (10in) SAND - medium sand with some fines, light brown.	
	62.0	S-31	11 12 13 17 / 6 6 6 6	24	24	2in barrel used Screen for Pb, Cu,PCB,Asbestos	S-31 (24in) SAND - fine to medium sand, light brown.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'lags. Pull augers & readvance w/ casing using spin&wash tech. Perform cont. sampling w/3in (0 -52')& 2in (52-115') split-barrel samplers advanced w/140lb hammer. Sampled in 5-6' increments below 62'. Rock likely @ approx. 114'logs. Well screen:111.5-101.5'. See boring log REneed to regrill after well installed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW102D_0.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0899 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-MW1020

DATE START: 04/04/1994 DEPTH TO WATER: 8.20 LOGGED BY: MS,BW GROUND EL.: 9.70

DATE COMPLETED: 04/19/1994 DATE & TIME: 05/16/1994/1510 CHECKED BY: TOTAL DEPTH: 115.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	64.0	S-32	12 4 10 13 / 6 6 6 6	24	24	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-32 (24in) SAND - mostly fine to medium sand, some coarse sand, light brown.	
	66.0	S-33	9 12 13 17 / 6 6 6 6	24	24	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-33 (24in) SAND - fine to medium sand, some coarse sand, light brown. No coarse sand in bottom 3".	
	68.0	S-34	8 7 8 11 / 6 6 6 6	24	19	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-34 (19in) SAND - fine to medium sand, light brown.	
	70.0	S-35	6 7 10 15 / 6 6 6 6	24	18	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-35 (18in) SAND - fine to medium sand, some coarse sand, light brown.	
	72.0	S-36	5 7 10 15 / 6 6 6 6	24	0	NO RECOVERY	S-36 (0in) NO RECOVERY.	
	74.0	S-37	4 7 10 11 / 6 6 6 6	24	10	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-37 (10in) SAND - fine to medium sand, light brown.	
	76.0	S-38	15 10 11 15 / 6 6 6 6	24	18	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-38(18in) SAND - fine to coarse sand, well graded, light brown. Thin grey layer approx. 2in from bottom of barrel.	
	78.0	S-39	14 17 25 10 / 6 6 6 6	24	24	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-39 (24in) gravelly SAND - mostly fine to coarse sand, well graded, some fine gravel, light brown.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Soil barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'bgs. Pull augers & readvance w/ casing using spin&wash tech. Perform cont. sampling w/3in (0 -52')& 2in (52'-115') split-barrel samplers advanced w/140lb hanner. Sampled in 5-6' increments below 82'. Rock likely @ approx. 114'bgs. Well screen(11.5-101.5'. See boring log REmeed to regrill after well installed.

ACAD NAME: RATHMARK\BORINGS_ALTERED\MW1020D_E.DWG (8/25/99)

Click Here To Continue

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO	BORING NO: MF-MW102D
DATE START: 04/04/1994	DEPTH TO WATER: 8.20	LOGGED BY: MS.BW	GROUND EL.: 9.70
DATE COMPLETED: 04/19/1994	DATE & TIME: 05/16/1994/1510	CHECKED BY:	TOTAL DEPTH: 115.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	80.0	S-40	17 16 20 19 / 6 6 6 6	24	18	2in barrel used Screen for: Pb, Cu,PCB,Asbestos	S-40 (18in) gravelly SAND - fine to medium sand, trace silt, brown, coarse angular gravel of various color in last 3inches of barrel. Large fragment of white quartz at bottom.	
	82.5	S-41				Confirming if top of bedrock encountered.	S-41 - NOT BEDROCK. Able to drive a 2in barrel through rock layer. Encountered sand beneath the layer of rock.	
	87.0	S-42	37 100 / 6 5	24	8	Driller reports problem. Casing slips to 87ft.	S-42 (8in) SAND - coarse sand, poorly graded, brown.	
	93.0	S-43	100 / 5	5	5	Advanced boring 6 ft from prev. interval.	S-43 (5in) SAND - fine to medium sand, poorly graded, trace micaceous silt, brown.	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'bgs. Pull augers & resdvance w/ casing using sonic&wash tech. Perform cont. sampling w/3in CD -52'& 2in (52-115') split-barrel samplers advanced w/140lb hammer. Sampled in 5-6' increments below 82'. Rock likely @ approx. 114'bgs. Well screen@LS-101.5'. See boring log RE:need to regrill after well installed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW102D_F.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO. | BORING NO: MF-MW102D

DATE START: 04/04/1994 | DEPTH TO WATER: 8.20 | LOGGED BY: MS,BV | GROUND EL.: 9.70

DATE COMPLETED: 04/19/1994 | DATE & TIME: 05/16/1994/1510 | CHECKED BY: | TOTAL DEPTH: 115.00

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	98.0	S-44	17 / 48 / 63 / 88 (6 each)	24		Advanced boring 5 ft from prev. interval.	S-45 - SAND - fine to medium sand, trace silt, tan to orange in color. Orange colored sand coarser than tan.	
	103.0	S-45	17 / 38 / 38 / 52 (6 each)	24	24	Advanced boring 5 ft from prev interval.	S-45A(18in) SAND - medium grained, tan. S-45B(5.5in) SAND - coarser than S-46A. S-46C(0.5in) clayey SAND - medium grained.	
	108.0	S-46	30 / 39 / 32 / 32 (6 each)	24	9	Advanced boring 5 ft from prev interval.	S-46 (9in) clayey SAND - fine to medium grained sand, slightly clayey, gray. 3in piece of quartzite in end of barrel.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'bgs. Pull augers & readvance w/ casing using spin&wash tech. Perform cont. sampling w/3in (0 -52')& 2in (52-115') split-barrel samplers advanced w/140lb hammer. Sampled in 5-6' increments below 82'. Rock likely @ approx. 114'bgs. Well screen(11.5-101.5'. See boring log RE:need to redrill after well installed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW102D_G.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0896	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-HW-102D
DATE START: 04/04/1994	DEPTH TO WATER: 8.20	LOGGED BY: MS,BW	GROUND EL.:	5.70
DATE COMPLETED: 04/19/1994	DATE & TIME: 05/16/1994/1510	CHECKED BY:	TOTAL DEPTH:	115.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	113.0	S-47	23 25 28 34 (6 6 6 6)	24	12	Advanced boring 5 ft from prev interval.	S-47 (12in) SAND - medium grained sand, angular pieces of gray to black schist. May be indicative of top of altered bedrock surface.	
	114.0	S-48	100 / 3	3	3	Casing grinding @ 114ft bgs. REFUSAL@114.25'	S-48 (3in) SCHIST FRAGMENTS. POTENTIAL BEDROCK SURFACE @ 114.25 FT BGS.	
							End of boring @ 114.25 ft bgs. Monitoring well MF-HW102D installed. See well log. Found breach in well after installation. Readvanced original borehole; ground-out PVC; install well 2 ft same depth.	

LEGEND:

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN – Penetration length of sampler
REC – Length of sample recovered
▽ – Natural groundwater table

NOTES:

Advanced boring w/8in HSA,10'bgs. Pull augers & readvance w/ casing using spin&wash tech. Perform cont. sampling w/2in (0 -52')& 2in (52-115') split-barrel samplers advanced w/140lb hammer. Sampled in 5-6' increments below 82'. Rock likely @ approx. 114'bgs. Well screen:111.5-101.5'. See boring log RE:need to redrill after well installed.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW102D_H.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 2890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO	BORING NO: MF-MW103M		
DATE START: 04/27/1994	DEPTH TO WATER: 11.88	LOGGED BY: JM	GROUND EL.: 12.60		
DATE COMPLETED: 04/28/1994	DATE & TIME: 05/16/1994 1515	CHECKED BY:	TOTAL DEPTH: 40.00		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	A				4.25in ID auger Smooth advance Grass/gravel	SAND, poorly graded, little gravel, organic matter branch debris, dry, dk brown to light brown.	SP
	12.0	B				Possible H2O table. Wet soil off HSA flights	silty SAND, poorly graded, mod plasticity, some silt, little subrounded gravel, tree branch stuck in the bit.	
	14.5	C				Pull augers. Adv.w/10in cas. Telesc. 6in cas	Spin & Wash 6in casing below 14.5ft. PEAT & SILT, organic debris. Water is dk brown w/ floating organic debris.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW103M REPRESENTS ONE OF TWO WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW103D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS. OBSERVATIONS ON THIS LOG WERE REPORTED FROM THE ADVANCE OF THE AUGERS OR FROM SOIL CUTTINGS AS CASING WAS ADVANCED.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW103M_A.DWG (8/25/99)

Click To Continue

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-MW103M

DATE START: 04/27/1994 DEPTH TO WATER: 11.88 LOGGED BY: JH GROUND EL.: 12.60

DATE COMPLETED: 04/28/1994 DATE & TIME: 05/16/1994 1515 CHECKED BY: TOTAL DEPTH: 40.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	40.0	F					EOB @ 40 ft. Set well.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

MW103M REPRESENTS ONE OF TWO WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW103D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS. OBSERVATIONS ON THIS LOG WERE REPORTED FROM THE ADVANCE OF THE AUGERS OR FROM SOIL CUTTINGS AS CASING WAS ADVANCED.

ACAD NAME:A:\MW103M_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF→MW103D

DATE START: 04/13/1994 DEPTH TO WATER: 12.32 LOGGED BY: MH,MS,KJ GROUND EL.: 13.00

DATE COMPLETED: 04/21/1994 DATE & TIME: 05/16/1994 1515 CHECKED BY: _____ TOTAL DEPTH: 78.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	USCS
	0.0	S-1	11 21 11 11 / 6 6 6 6	24	12	Interval= 0002'	S-1 (12in) SAND, widely graded, some gravel, trace silt, one pocket red sand.	SW
	2.0	S-2	6 7 9 11 / 6 6 6 6	24	18	Interval= 0204'	S-2 (18in) SAND, similar to S-1 except silt pockets.	SW
	4.0	S-3	12 50 / 6 3	9	3	Interval= 4 to 4.75ft 6in cobble.	S-3 (3in) SILTY SAND, widely graded sand, some fine gravel, some silt.	SW/SM
	6.0	S-4	9 7 8 7 / 6 6 6 6	24	18	Interval= 0608'	S-4 (18in) SILTY SAND, apparent asbestos fibers, some red tile.	SM/SP
	8.0	S-5	2 2 2 5 / 6 6 6 6	24	24	Interval= 0810'	S-5 (24in) SILTY SAND, similar to S-4 with apparent asbestos.	SM/SP
	10.0	S-6	1 1 1 4 / 6 6 6 6	24	16	Interval= 1012'	S-6 (16in) SILTY SAND, similar to S-4 except with silt and fibrous waste (asbestos) and piece of red slag, wet.	SM/SP
	12.0	S-7	1 2 2 1 / 6 6 6 6	24	3	Interval= 1214'	S-7 (3in) SILTY SAND, asbestos fibers.	
	14.0	S-8	1 1 2 4 / 6 6 6 6	24	24	Interval= 1416'	S-8 (24in) PEAT, roots and rootlets, some organic silt, slightly plastic.	Pt/OL

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring with 6in casing. Spin&Wash to 68ft. Perform continuous sampling in 2ft increments w/3in barrel & 140lb hammer to 60ft. Samping every 5ft approx. from 63-88ft using 3in barrel and 140lb hammer. Top of rock @ 88ft. Cored 21ft. Perform packer test. Backfill to 83Ft and set well. Samples screened for Pb,Cu,PCB,Asbestos. NR,NM=not recorded/measured

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW103D_A.DWG (8/25/99)

Click Here To Continue

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-MW103D

DATE START: 04/13/1994 DEPTH TO WATER: 12.32 LOGGED BY: MH,MS,KJ GROUND EL.: 13.00

DATE COMPLETED: 04/21/1994 DATE & TIME: 05/16/1994/ 1515 CHECKED BY: _____ TOTAL DEPTH: 138.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	2 6 6 3 6 6 5 6	24	12	Interval= 1618'	S-9 (12in) PEAT, similar to S-8, except some fine gravel.	Pt
	18.0	S-10	3 6 4 6 4 6 5 6	24	24	Interval= 1820'	S-10 (24in) PEAT, similar to S-8 except fewer roots and rootlets, more silt	Pt/ML
	20.0	S-11	3 6 4 6 4 6 5 6	24	17	Interval= 2022'	S-11 (17in) SILT, fibers, slight layering roots and rootlets.	ML/Pt
	22.0	S-12	3 6 5 6 5 6 8 6	24	24	Interval= 2224'	S-12 (24in) SILT, similar to S-11.	ML/Pt
	24.0	S-13	5 6 17 6 12 6 15 6	24	18	Interval= 2426'	S-13 (24in) SAND and PEATY SILT, stratified, widely graded sand with trace silt and silt with some peat layers.	SW Pt/ML
	26.0	S-14	19 6 21 6 19 6 22 6	24	20	Interval= 2628'	S-14 (20in) SAND, widely graded & stratified, some gravel, 3in peat, fine sand layers to 1in thick.	SW Pt
	28.0	S-15	23 6 14 6 23 6 17 6	24	14	Interval= 2830'	S-15 (14in) sandy GRAVEL, trace silt, brown	GW
	30.0	S-16	43 6 33 6 16 6 22 6	24	13	Interval= 3032'	S-16 (13in) sandy GRAVEL, similar to S-16.	GW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sample
REC - Length of sample recovered / W - Natural groundwater table

NOTES:

Advanced boring with 6in casing Sam&Wash to 88Ft. Perform continuous sampling in 2Ft increments w/3in barrel & 140lb hammer to 60Ft. Sampling every 5Ft approx. from 63-88Ft using 3in barrel and 140lb hammer. Top of rock @ 88Ft. Cored 20Ft. Perform packer test. Backfill to 83Ft and set well. Samples screened for Pb,Cu,PCB,Asbestos. NR,NM=not recorded/measured

ACAD NAME:A:\MW103D_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0893	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-MW1033		
DATE START: 04/13/1994	DEPTH TO WATER: 12.32	LOGGED BY: MM,MS,KJ	GROUND EL.: 13.00		
DATE COMPLETED: 04/21/1994	DATE & TIME: 05/16/1994 1315	CHECKED BY:	TOTAL DEPTH: 108.00		

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	32.0	S-17	23 6 29 6 24 6 20 6	24	16	Interval= 3234'	S-17 (16in) SAND, some fine gravel, trace silt, trace coarse gravel to 1-inch.	SW
	34.0	S-18	12 6 16 6 8 6 11 6	24	18	Interval= 3436'	S-18 (18in) SAND, some gravel to 1in, trace silt, layered.	SP
	36.0	S-19	10 6 7 6 5 6 13 6	24	0	Interval= 3638'	S-19 (0in) NO RECOVERY.	
	38.0	S-20	26 6 30 6 35 6 42 6	24	1	Interval= 3840'	S-20 (1in) SAND, trace silt.	SW
	40.0	S-21	30 6 15 6 26 6 35 6	24	9	Interval= 4042'	S-21 (9in) SAND, well graded sand, some subrounded gravel to 2-inch, trace silt.	
	42.0	S-22	33 6 26 6 20 6 30 6	24	15	Interval= 4244'	S-22 (15in) well graded sand, trace silt, gravel rounded to angular up to 2-inches.	
	44.0	S-23	33 6 35 6 26 6 36 6	24	10	Interval= 4446'	S-23 (10in) gravelly SAND, similar to S-27, 4in long rock.	
	46.0	S-24	24 6 20 6 20 6 18 6	24	18	Interval= 4648'	S-24 (18in) SAND, medium-coarse sand, some fines, some well rounded gravel to 1.5-inches.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring with 6in casing. Spin&Wash to 88ft. Perform continuous sampling in 2ft increments w/3in barrel & 140lb hammer to 60ft. Samping every 5ft approx. from 63-88ft using 3in barrel and 140lb hammer. Top of rock @ 88ft. Cored 20ft. Perform packer test. Backfill to 83ft and set well. Samples screened for Pb,Cu,PCE,Asbestos. NR,NM=not recorded/measured

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW1033_C.DWG (8/25/99)

Click Here to Continue

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0898 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-MW103D

DATE START: 04/13/1994 DEPTH TO WATER: 12.32 LOGGED BY: MH,MS,KJ GROUND EL.: 13.00

DATE COMPLETED: 04/21/1994 DATE & TIME: 05/16/1994 1515 CHECKED BY: TOTAL DEPTH: 108.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	48.0	S-25	24 6 18 6 19 6 20 6	24	5	Interval= 4850'	S-25 (5in) SAND, well graded.	
	50.0	S-26	14 6 16 6 17 6 20 6	24	9	Interval= 5052'	S-26A (0-4in) SAND, similar to S-25. S-26B (4-9in) SAND, coarse, and fine GRAVEL, trace fine sand.	
	52.0	S-27	25 6 27 6 20 6 18 6	24	12	Interval= 5254'	S-27 (12in) GRAVELLY SAND, widely graded to 2in.	
	54.0	S-28	16 6 17 6 17 6 21 6	24	12	Interval= 5456'	S-28 (12in) GRAVELLY SAND, trace silt, widely graded, gravels to 2in.	
	56.0	S-29	17 6 12 6 17 6 14 6	24	15	Interval= 5658'	S-29 (15in) GRAVELLY SAND, widely graded, cobbles to 2in.	
	58.0	S-30	20 6 24 6 28 6 25 6	24	0	Interval= 5860' Hard advance. GRAVELS	S-30 (0in) NO RECOVERY, pushed a rock.	
	63.0	S-31	74 6 86 6 25 6 32 6	24	3	Hard advance. Cobbles. Lost 500gals.	S-31 (3in) NO RECOVERY. Possibly a cobble or large gravel zone.	

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring with 6in casing. Spin&Wash to 88ft. Perform continuous sampling in 2Ft increments w/3in barrel & 140lb hammer to 60ft. Sampling every 5ft approx. from 63-88ft using 3in barrel and 140lb hammer. Top of rock @ 88ft. Cored 20ft. Perform packer test. Backfill to 83ft and set well. Samples screened for Pb,Cu,PCB,Asbestos. NR,NM=not recorded/measured

ACAD NAME:A:\MW103D_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 LOCATION: STRATFORD, CT DRILLED BY: PENN DRILLING CO. BORING NO: MF-MW1033

DATE START: 04/13/1994 DEPTH TO WATER: 12.32 LOGGED BY: MK,MS,KJ GROUND EL.: .3.00

DATE COMPLETED: 04/21/1994 DATE & TIME: 05/16/1994 1515 CHECKED BY: TOTAL DEPTH: 108.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	63.0	S-31	74; 6 86 6 25; 6 38 6	24	0	Hard advance. Cobbles. Lost 500gals.	S-31 (0m) NO RECOVERY. Possibly a cobble or large gravel zone.	
	68.0	S-32	33; 6 28 6 23; 6 39 6	24	10	Hard advance. Lost another 500 gals.	S-32 (10m) sandy GRAVEL, trace silt, fine-coarse sand, well graded, coarse gravel up to 1.5" in length, 2 cobble size 3" gravels, cobbles brown.	GW
	73.0	S-33	20; 6 9 6 8; 6 13 6	24	7	Hard advance. Cobble/gravel zone	S-33 (7m) sandy GRAVEL, trace silt, similar to S-32.	GW
	78.0	S-34	10; 6 11 6 19; 6 16 6	24	8	Interval= 78'80'	S-34 (8m) sandy GRAVEL, trace silt, similar to S-33.	GW

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced boring with 6in casing. Spin&Wash to 68Ft. Perform continuous sampling in 2ft increments w/3in barrel & 140lb hammer to 63Ft. Samping every 5ft approx. from 63-88Ft using 3in barrel and 140lb hammer. Top of rock @ 88Ft. Cored 20Ft. Perform packer test. Backfill to 83Ft and set well. Samples screened for Pb,Cu,PCB,Asbestos. NR,NM=not recorded/measured

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW1030_E.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO: MF-MW1033		
DATE START: 04/13/1994	DEPTH TO WATER: 12.32	LOGGED BY: MH,MS,KJ	GROUND EL.: 13.30		
DATE COMPLETED: 04/21/1994	DATE & TIME: 05/16/1994/ 15:15	CHECKED BY:	TOTAL DEPTH: 108.00		

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	83.0	S-35	200 1	1	0	Casing grinding 6in cobble.	S-35 (0in) NO RECOVERY. Broken rock at end of split-barrel. Rollerbit broke through cobble.	
	83.5	S-36	1 18 12 6	24	0	Broke boulder. 2in barrel used No basket in SB	S-36 (0in) NO RECOVERY. Advance to 88ft. Grinding terribly. No water return.	
	88.0	S-37	200 15	1	0	2in barrel. Boring flushed. Top of bedrock	S-37 (0in) NO RECOVERY. Metamorphic rock chips in sampler. Refusal @ 88ft. Bedrock.	
	90.5	C-39		84	84	Run 2:90.5-97.5 Run time: 14min No joins.	C-39 Chlorite mica schist. Foliated, med. grained dk green coloration, 45 degree angle schistosity in middle of run, garnets (?), RQD= 50%	

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN = Penetration length of sampler
REC = Length of sample recovered
▽ = Natural groundwater table

NOTES:

Advanced boring with 6in casing. Spin&Wash to 88ft. Perform continuous sampling in 2Ft increments w/3in barrel & 140lb hammer to 60ft. Sampling every 5ft approx. from 63-88ft using 3in barrel and 140lb hammer. Top of rock @ 88ft. Cored 20ft. Perform packer test. Backfill to 83ft and set well. Samples screened for Pb,Cu,PCB,Asbestos. NR/NM=not recorded/measured

ACAD NAME:A:\MW1030_F.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO. | BORING NO: MF-HW104S

DATE START: 04/20/1994 | DEPTH TO WATER: 6.67 | LOGGED BY: JH | GROUND EL.: 8.70

DATE COMPLETED: 04/20/1994 | DATE & TIME: 05/16/1994 1525 | CHECKED BY: | TOTAL DEPTH: 11.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0					8.25inID augers Fill material.	Grassy rubble.	
		A				Fill material.	Dk brown sand and gravel cuttings, trace brick.	
		B				Rig chatter.	trace metal rods (alloy, 3mm thick in diameter).	
	3.0	C						
	3.5	D				Rig chatter and screeching. Wet soil.		
		E						
	4.5					Pull augers&Re-advance w/6in casing. Spn/Wsh	Washwater is milky gray.	
		F						
	6.5					Rig screeching.	Wash water is dk brown w/ plant debris (floating).	
		G						
	8.5						White speckles floating in washwater.	
		I						
	10.0						EOB @ 11Ft. Set well.	
		K						

LEGEND

TYPE-NO. – Type of Sample
C – Rock core sample
S – Split barrel sample
BLOWS PER 6" – 140 lb. hammer falling 30" to drive a split barrel sampler; number of blows per foot of rock penetration length of sampler
REC. – Length of sample recovered
▽ – Measured groundwater table

NOTES:

HW104S REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-HW104D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS. OBSERVATIONS ON THIS LOG WERE REPORTED FROM THE ADVANCE OF THE AUGERS OR FROM SOIL CUTTINGS AS CASING WAS ADVANCED.

ACAD NAME:A:\HW104S.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO. | BORING NO: MF-MW104M

DATE START: 04/19/1994 | DEPTH TO WATER: 8.70 | LOGGED BY: JH | GROUND EL.: 9.40

DATE COMPLETED: 04/19/1994 | DATE & TIME: 05/16/1994/1525 | CHECKED BY: | TOTAL DEPTH: 29.00

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0					8.25in ID auger Fill material.	Grass, tan silt, some sand.	
		A						
	2.0					Material from auger flights	Silt, sand, gravel, trace concrete evident to 7ft.	
		B						
	4.0					Rig chatter to 7ft.		
		C						
	7.0					Auger flights empty. Chatter mechanical.		
		D						
	9.0					Pull augers.Re-aavon. 8in cas. Telsc. 6in& adv	Wash water is dk gray to black.	
		E						
	15.0					Poss. artesian conditions. Tub gams H20.		
		F						

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; sometimes number of blows per foot of rock coring
PEN. - Penetration length of sampler
REC. - Length of sample recovered
▽ - Indicates groundwater table

NOTES:

MW104M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW104D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS. OBSERVATIONS ON THIS LOG WERE REPORTED FROM THE ADVANCE OF THE AUGERS OR FROM SOIL CUTTINGS AS CASING WAS ADVANCED.

ACAD NAME:A:\MW104M_A.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-MW104M	
DATE START: 04/19/1994	DEPTH TO WATER: 8.70	LOGGED BY: JH	GROUND EL.:	9.40	
DATE COMPLETED: 04/19/1994	DATE & TIME: 05/16/1994/1525	CHECKED BY:	TOTAL DEPTH:	29.00	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	F				Poss. artesian conditions. Tub gains H2O.		
	19.5	G					Wash water dk brown, milky brown.	
	23.5	H				Slt screech frm rig. Rig chatter periodic.	Formation seems to be taking water (slightly).	
	29.0	I					EOB @ 29ft. Set well.	

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; correct time per foot of rock
PEN. = Penetration length of sample
REC. = Length of sample recovered
▽ = Notation groundwater table

NOTES:

MW104M REPRESENTS ONE OF THREE WELLS IN A CLUSTER. SOIL AND ROCK DESCRIPTIONS WERE RECORDED FROM THE DEEPEST BORING IN EACH CLUSTER. SEE BORING LOG MF-MW104D FOR COMPLETE SOIL AND ROCK DESCRIPTIONS. OBSERVATIONS ON THIS LOG WERE REPORTED FROM THE ADVANCE OF THE AUGERS OR FROM SOIL CUTTINGS AS CASING WAS ADVANCED.

ACAD NAME:A:\MW104M_B.DWG

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-MW104D	
DATE START: 04/07/1994	DEPTH TO WATER: 8.46	LOGGED BY: JH	GROUND EL.:	8.80	
DATE COMPLETED: 04/14/1994	DATE & TIME: 05/16/1994/1525	CHECKED BY:	TOTAL DEPTH:	80.90	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	0.0	S-1	2 3 6 11 / 6 6 6 6	24	17	Interval= 0002' Fill material. 10.25in HSA	S-1 (0-17in) silty SAND, little gravel, poorly graded, asphalt, grass roots, red-brown.	
	2.0	S-2	3 10 25 27 / 6 6 6 6	24	21	Interval= 0204' Fill material. HSA drill tech.	S-2A (0-9in) silty SAND, poorly graded sand, little gravel, grass roots, damp, lt brown. S-2B (9-21in) silty SAND, little gravel, little asphalt, trace brick.	
	4.0	S-3	16 13 9 9 / 6 6 6 6	24	18	Interval= 0406' Fill material. HSA drill tech.	S-3A (0-6in) silty SAND, some silt, little gravel, grass roots, damp, lt brown. S-3B (6-18in) silty SAND, little gravel, asphalt, organic fibrous material, brick, wood chips, damp, black.	
	6.0	S-4	9 15 15 37 / 6 6 6 6	24	15	Interval= 0608' Fill material. HSA. Rig Noisy.	S-4A (0-5in) silty SAND, grass roots (may have fallen into hole), lt brown. S-4B (5-15in) silty SAND, well graded, some gravel trace asphalt, concrete, wood pieces, wet. Note-At 7ft, a rubber shoe sole came off auger flt	
	8.0	S-5	4 4 7 9 / 6 6 6 6	24	6	Interval= 0810' Top natural. 8in casing @9ft	S-5A (0-2in) silty SAND, grass roots, lt brown. S-5B (2-6in) silty SAND, well graded, trace gravel trace clay, wet, dk grey. Note: Measured water table @ 8.5ft bgs.	
	10.0	S-6	15 6 6 7 / 6 6 6 5	24	13	Interval= 1012' Natural.	S-6A (0-5in) SAND and SILT, fine-coarse sand, little gravel, trace, clay, well graded, wet. S-6B (5-8in) silty SAND, poorly graded, little gravel, trace roots, damp, lt brown. S-6C (8-13in) Peat, little gravel, little silt, little fine sand.	SM
	12.0	S-7	2 3 3 2 / 6 6 6 6	24	23	Interval= 1214' Natural.	S-7 (0-20in) Peat, trace gravel, white roots, organic debris, dry, dk brown.	
	14.0	S-8	5 2 3 3 / 6 6 6 6	24	4	Interval= 1416' Natural.	S-8 (0-4in) Silt, med plasticity, some peat, damp, black.	

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler: coring time per foot of rock
PEN. = Penetration length of sample
REC. = Length of sample recovered
▽ = Natural groundwater table

NOTES:

Advanced soil boring with 10.25in ID HSA,0-9ft; 8in casing to 29ft; telescoped 6in casing and advanced from 29ft to EOB Performed continuous sampling w/2in & 3in OD split-barrel samplers to top of rock at approx. 61ft. Possible natural material @ 8-10ft interval. Possible top of water @ 8.5ft. Screen samples. Well screen @ 79-69ft. NM/NR=Not meas./rec.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW104D_A.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-MW104D	
DATE START: 04/07/1994	DEPTH TO WATER: 8.46	LOGGED BY: JH	GROUND EL.:	8.80	
DATE COMPLETED: 04/14/1994	DATE & TIME: 05/16/1994/1525	CHECKED BY:	TOTAL DEPTH:	82.90	

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	16.0	S-9	3 6 2 6 2 6 2 6	24	22	Interval= 1618' Natural	S-9 (0-22in) Similar to above w/ fine fibrous material in soil that may or may not be organic.	OL
	18.0	S-10	2 6 2 6 3 6 3 6	24	24	Interval= 1820' Natural	S-10 (0-24in) Peat, fibrous root and stems, damp, brown.	Pt
	20.0	S-11	4 6 4 6 4 6 4 6	24	24	Interval= 2022' Natural	S-11 (0-24in) Similar to above, trace wood chips, damp. (Note: Water Table measured at 8.5' bgs)	Pt
	22.0	S-12	2 6 3 6 5 6 11 6	24	17	Interval= 2224' Natural PID Hit (A)=220	S-12A (0-9in) Similar to above, little fine sand. S-12B (9-17in) SAND, poorly graded, trace gravel, trace silt, trace organic debris, damp, dk brown gray.	
	24.0	S-13	8 6 16 6 10 6 13 6	24	14	Interval= 2426' Natural	S-13A (0-7in) SAND, fine w/little med to coarse, sand, wedged 2in layers, little peat, little fine gravel, damp, gray.	
	26.0	S-14	4 6 5 6 7 6 11 6	24	15	Interval= 2628' Natural	S-14 (0-15in) silty fine SAND, poorly graded, trace gravel, trace clay, 1/8in to 1/8in thick bedding throughout sample.	
	28.0	S-15	26 6 22 6 20 6 20 6	24	15	Interval= 2830' Telescope 6in casing @ 29ft.	S-15 (0-15in) SAND and gravel, well graded, fine-course sand, subangular-subrounded gravel, wet, red-brown.	GP
	30.0	S-16	20 6 27 6 19 6 28 6	24	11	Interval= 3032' Natural not	S-16 (0-11in) SAND and Gravel, poorly graded, little fines, trace fibrous organic matter, wet, dk gray.	GP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
S - Split spoon sample
BLOWS PEN 6" - 140 lb. hammer falling 30" to drive a split spoon sampler; or the blows per foot of rock coring
PEN - Penetration length of sampler
REC - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with 10.25in ID HSA 0-9ft; 8in casing to 29ft; telescoped 6in casing and advanced from 29ft to EOB. Performed continuous sampling w/2in & 3in OD split-barrel samplers to top of rock at approx. 81ft. Possible natural material @ 8-10ft interval. Possible top of water @ 8.5ft. Screen samples. Well screen @ 79-69ft. NM/NR=Not meas./rec.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW104D_B.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO	BORING NO:	MF-MW104D	
DATE START: 04/07/1994	DEPTH TO WATER: 8.46	LOGGED BY: JM	GROUND EL.:	8.86	
DATE COMPLETED: 04/14/1994	DATE & TIME: 05/16/1994/1525	CHECKED BY:	TOTAL DEPTH:	80.90	

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	32.0	S-17	38, 30, 38, 30 (6 6 6 6)	24	13	Interval= 3234' Natural mat.	S-17 (0-13in) SAND and Gravel, trace silt, apparent bedding, moist, dk gray to red-brown.	GP
	34.0	S-18	32, 26, 28, 25 (6 6 6 6)	24	6	Interval= 3436' Natural mat.	S-18A (0-4in) GRAVEL, subrounded-subangular, poorly sorted, trace coarse sand.	GP
							S-18B (4-6in) Silt and Gravel, trace sand, dk gray	GM
	36.0	S-19	5, 10, 19, 28 (6 6 6 6)	24	11	Interval= 3638' Used 2in barrel	S-19A (0-5in) Silt, some gravel, little sand, fine to coarse, gray.	ML
							S-19B (5-11in) Sand, well graded, some gravel, trace silt, red-brown.	SW
	38.0	S-20	24, 15, 23, 9 (6 6 6 6)	24	7	Interval= 3840' Natural mat.	S-20 (0-7in) Sand and gravel, well graded, trace fines, lt brown.	SW/GW
	40.0	S-21	40, 21, 25, 23 (6 6 6 6)	24	12	Interval= 4042' Natural mat.	S-21A (0-3in) Gravel, one piece.	
							S-21B (3-12in) SAND, poorly graded, trace gravel, light brown.	SP
	42.0	S-22	40, 48, 28, 17 (6 6 6 6)	24	7	Interval= 4244' Natural mat.	S-22A (0-6in) SAND, similar to S-21A&B.	SP
							S-22B (6-7in) SAND, and fine gravel, similar to S-22A.	SP
	44.0	S-23	13, 11, 13, 10 (6 6 6 6)	24	8	Interval= 4446' Natural mat.	S-23A (0-2in) Gravel, poorly graded.	GP
							S-23B (2-8in) SAND, well graded, trace gravel, lt brown.	SW
	46.0	S-24	6, 36, 44, 24 (6 6 6 6)	24	8	Interval= 4648'	S-24A (0-6.5in) Silt, mod to high plasticity, little sand, dk gray.	MH
							S-24B (6.5-8.5in) SAND, poorly graded, trace silt, lt brown.	SP

LEGEND:

TYPE-NO. - Type of Sample
C - Rock core sample
SC : barrel sample
BLOWS PER 6" - 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock
PEN. - Penetration length of sampler
REC. - Length of sample recovered
▽ - Natural groundwater table

NOTES:

Advanced soil boring with 10.25in ID HSA 0-9ft; 8in casing to 29ft; telescoped 6in casing and advanced from 29ft to EOB. Performed continuous sampling w/2in & 3in OD split-barrel samplers to top of rock at approx. 81ft. Possible natural material @ 8-10ft interval. Possible top of water @ 8.5ft. Screen samples. Well screen @ 79-69ft. NM/NR=not meas./rec.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW104D_C.DWG (8/25/99)

Click Here to Continue

BROWN & ROOT ENVIRONMENTAL

BORING LOG

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO | BORING NO: MF-MW104D

DATE START: 04/07/1994 | DEPTH TO WATER: 8.46 | LOGGED BY: JN | GROUND EL.: 8.80

DATE COMPLETED: 04/14/1994 | DATE & TIME: 05/16/1994/1525 | CHECKED BY: | TOTAL DEPTH: 80.90

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	48.0	S-25	22 6 42 6 23 6 20 6	24	0	NO RECOVERY	S-25 (0in) NO RECOVERY.	
	50.0	S-26	38 6 27 6 26 6 16 6	24	10	Interval= 5052'	S-26A (0-3in) SAND, and Gravel, well graded. S-26B (3-7in) Gravel, trace silt, lt brown.	GW/SW GW
	52.0	S-27	42 6 50 6 53 6 47 6	24	13	Interval= 5254'	S-27A (0-2in) Gravel, one 2in piece. S-27B (2-13in) SAND and Gravel, well graded, trace silt, red color patches.	SW
	54.0	S-28	25 6 67 6 44 6 35 6	24	15	Interval= 5456'	S-28A (0-5.5in) Gravel, poorly graded, little silt S-28B (5.5-15in) SAND and Gravel, well graded, trace silt.	GP SW
	56.0	S-29	40 6 57 6 32 6 26 6	24	13	Interval= 5658'	S-29 (0-13in) SAND and Gravel, well graded, trace silt.	GW
	58.0	S-30	50 6 40 6 47 6 28 6	24	11	Interval= 5860'	S-30 (0-11in) SAND and Gravel, well graded, 1/2in layer of highly plastic silt below sand.	SW/GW
	60.0	S-31	60 6 70 6 50 6 39 6	24	13	Interval= 6062'	S-31 (0-13in) SAND and Gravel, well graded, trace silt.	SW
	62.0	S-32	30 6 40 6 50 6 50 6	24	12	Interval= 6264'	S-32 (0-12in) SAND and Gravel, similar to S-31 w/ more gravel.	GW

LEGEND:

TYPE-NO. = Type of Sample
C = Rock core sample
SS = Split spoon sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a 2" split barrel sampler; or time per foot of rock coring
PEN. = Penetration length of sampler
REC. = Length of sample recovered
▽ = Measured groundwater table

NOTES:

Advanced soil boring with 10.25in ID HSA,0-9ft; 8in casing to 29ft; telescoped 6in casing and advanced from 29ft to EOB. Performed continuous sampling w/2in & 3in OD split-barrel samplers to top of rock at approx. 81ft. Possible natural material @ 8-10ft interval. Possible top of water @ 8.5ft. Screen samples. Well screen @ 79-69ft. NM/NR=Not meas./rec.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW104D_0.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890 | LOCATION: STRATFORD, CT | DRILLED BY: PENN DRILLING CO. | BORING NO: NF-HV104D

DATE START: 04/07/1994 | DEPTH TO WATER: 8.46 | LOGGED BY: JH | GROUND EL.: 8.80

DATE COMPLETED: 04/14/1994 | DATE & TIME: 05/16/1994/1525 | CHECKED BY: | TOTAL DEPTH: 80.90

ELEV. IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	BLOWS PER 6"	PEN. in.	REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	64.1	S-33	30 50 6 6	24	13	Interval= 6466'	S-33 (0-13in) SAND and Gravel, similar to S-32.	GW
	66.8	S-34	10 12 6 6	24	12	Interval= 6668' 2in barrel used	S-34 (0-12in) SAND and GRAVEL, well graded, little silt.	SW
	68.8	S-35	15 20 6 6	24	10	Interval= 6870' 2in barrel used	S-35 (0-10in) SAND and GRAVEL, similar to S-34.	SW
	71.1	S-36	35 90 6 6	24	11	Interval= 7072' 3in barrel used	S-36 (0-11in) GRAVEL, well graded, some sand, some silt (2in thick layer, non plastic), mottled color.	GW
	72.9	S-37	40 50 6 6	24	11	Interval= 7274' Water not flowing into fm.	S-37 (0-11in) SAND and GRAVEL, well graded, little silt, mottled. Note: Water not escaping from the bottom of the casing, non-permeable geology.	SW/GW
	74.3	S-38	32 50 6 6	24	6	Interval= 7476' Water is not escaping casing	S-38 (0-8.5in) SAND and GRAVEL, similar to S-37.	SW/GW
	76.1	S-39	12 15 6 6	24	10	Interval= 7678' Water escaping Rock in spoon.	S-39 (0-10.5in) SAND and GRAVEL, similar to S-38. Note: Water is not flowing out of the 6in casing into the formation at the noted depth.	SW/GW
	78.1	S-40	23 45 6 6	24	5	Interval= 7880' Rig chattering 2in barrel	S-40 (0-5in) SAND and Gravel, well graded gravel, poorly graded sand, some silt, grey.	GW

LEGEND

TYPE-NC = Type of Sample
C = Rock core sample
S = Split barrel sample
BLOWS PER 6" = 140 lb. hammer falling 30" to drive a 2" split barrel sampler; corrected blows per foot of rock core
PEN. = Penetration length of sampler
REC. = Length of sample recovered
▽ = Noted groundwater table

NOTES:

Advanced soil boring with 10.25in ID HSA 0-9ft; 8in casing to 29ft; telescoped 6in casing and advanced from 29ft to EOB. Performed continuous sampling w/2in & 3in OD split-barrel samplers to top of rock at approx. 81ft. Possible natural material @ 8-10ft interval. Possible top of water @ 8.5ft. Screen samples. Well screen @ 79-69ft. NM/NR=not meas./rec.

ACAD NAME: RAYMARK\BORINGS_ALTERED\HV104D_E.DWG (8/25/99)

BORING LOG

BROWN & ROOT ENVIRONMENTAL

PROJECT NO: 0890	LOCATION: STRATFORD, CT	DRILLED BY: PENN DRILLING CO.	BORING NO:	MF-MW104D	
DATE START: 04/07/1994	DEPTH TO WATER: 8.46	LOGGED BY: JH	GROUND EL.:	8.80	
DATE COMPLETED: 04/14/1994	DATE & TIME: 05/18/1994/1525	CHECKED BY:	TOTAL DEPTH:	80.90	

ELEV IN FEET	DEPTH IN FEET	SAMPLE TYPE-NO.	SAMPLE BLOWS PER 6"	SAMPLE PEN. in.	SAMPLE REC. in.	REMARKS ON ADVANCE OF BORING	SOIL & ROCK DESCRIPTION	U.S.C.S.
	80.0	S-41	65/ 6 100/ 5	11	6	Inter.=80-80.9'	S-41 (0-6in) SAND and Gravel, well graded gravel, little silt, trace flaky gravel w/metallic luster.	SW/GW
	80.5	S-42	100/ 5	5	3	Rig chatter. Top of rock.	S-42 (3in) BEDROCK, broken up schistose bedrock. EOB @ 80ft 11in. Set well, see well log.	

LEGEND

TYPE-NO. = Type of Sample
- RC = Rock core sample
- SC = Soil core sample

BLOWS PER 6" = 140 lb. hammer falling 30" to drive a split barrel sampler; coring time per foot of rock

PEN. = Penetration length of sampler

REC. = Length of sample recovered

▽ = Measured groundwater table

NOTES:

Advanced soil boring with 10.25in ID HSA,0-9ft; 8in casing to 29ft; telescoped 6in casing and advanced from 29ft to EOB. Performed continuous sampling w/2in & 3in OD split-barrel samplers to top of rock at approx. 81ft. Possible natural material @ 8-10ft interval. Possible top of water @ 8.5ft. Screen samples. Well screen @ 75-69ft. NM/NR=Not meas./rec.

ACAD NAME: RAYMARK\BORINGS_ALTERED\MW104D_F.DWG (8/25/99)

BORING LOG FOR:	RAYMARK OU2/OU4 RI/FS		BORING NO.: SB-104B
PROJECT NO.:			START DATE: 2/3/99
LOGGED BY:	A. Putnam / D. Whalen	TRANSCRIBED BY: LJD	COMPLETION: DATE: 2/11/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc. / K. Kutarnia		MON. WELL NO.: MW-104B
GRD. SURFACE ELEVATION:	8.6’	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6” RQD	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT’L CHG./ WELL PROF’L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
10							no soil samples taken – refer to boring log 104d details		piece of waste fill near surface – hard tile FID=2.2 to 16.3 in B.Z. while washing out to 22’ bgs	5” CASING TO 22’
20										4” CASING
30										
40										
50										
60										
70										
80							rollerbit into cobbles & weathered rock and then into gravel continue to draw 4” casing. Top of bedrock rollerbit 1” drive casing rollerbit to 87.5 and drive casing to 87’ refusal at 87.5’ * top of bedrock at 87.0’			
85										
85.5										
87.5				87.0’ Top of bedrock						
			4:31			Gray to Dark Green	chlorite/ mica schist some quartz and small garnets low angle foliation	BR		
90			4:37						small vugs at 90.1’ some rust staining at 90.2’	
			4:26							
92	84%	120” / 120”	C-1 87.51’ 97.5’ 3:40					BL		
			4:46					BR		

TYPE OF DRILLING RIG:	Mobile Drill B-59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4 in. ID Drive & Wash Casing & 5 in. ID drive & Wash Casing		
METHOD OF SOIL SAMPLING:	N/A		
METHOD OF ROCK CORING:	NQ Wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Strong rotten egg odor while washing out at 20’ bgs. FID fluctuated from 0 – 163 while washing out	BORING NO.: SB-104B	PAGE: 1 OF 3

BORING LOG FOR:	RAYMARK OU2/OU4 RI/FS		BORING NO.: SB-104B
PROJECT NO.:			START DATE: 2/3/99
LOGGED BY:	A. Putnam / D. Whalen	TRANSCRIBED BY: LJD	COMPLETION: DATE: 2/11/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc. / K. Kutarnia		MON. WELL NO.: MW-104B
GRD. SURFACE ELEVATION:	8.6'	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6" RQD	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
94			C1 (cont.) 4:19			Gray to Dk. green	Chlorite / mica schist some quartz and small garnets Low angle foliation	BR	No alteration on break surfaces	
			4:37							
96			4:28				45 ∀foliation			
			4:09							
98			3:51				Low angle foliation			
			4:38							
100			5:06							
			4:29						100.5' rust-staining, small vugs 101' rust-stained	
102	63%	121" / 120'	C – 2 3:28 97.5'-107.5'						102' rust stained 102.5' rust-stain 102.8' soft rock, rust	
			2:30							
104			2:51						No alteration on break surfaces	
			3:05							
106			4:13							
108			C-3 3:04 107.5'-117.5'					BL		
			5:16							

TYPE OF DRILLING RIG:	Mobile Drill B-59
METHOD OF ADVANCING BORING:	4 in. ID Drive & Wash Casing
METHOD OF SOIL SAMPLING:	N/A
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

BORING LOG FOR:	RAYMARK OU2/OU4 RI/FS		BORING NO.: SB-104B
PROJECT NO.:			START DATE: 2/3/99
LOGGED BY:	A. Putnam / D. Whalen	TRANSCRIBED BY: LJD	COMPLETION: DATE: 2/11/99
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing Inc. / K. Kutarnia		MON. WELL NO.: MW-104B
GRD. SURFACE ELEVATION:	8.6'	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
110			3:54			gray	Mica schist	br	No evidence of weathering / alteration on break surfaces	
			4:02				Some quartz and small garnets Low angle foliation	vbr br		
112		121"	C-3 3:54							
	85%	/ 120"	107.5'-117.5' 2:55							
114			3:03							
			3:15			Dk. Green	Gneiss White quartz veins throughout			
116			4:11							
			5:45							
118			C-4 4:38			gray		bl		
	92%	22" / 24"	117.5'-119.5' 4:47							
119.5			6:13					br		

TYPE OF DRILLING RIG:	Mobile drill B-59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4 in. ID Drive & Wash Casing.		
METHOD OF SOIL SAMPLING:	N/A		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: SB-104B	PAGE: 3 OF 3

BORING LOG FOR:	Raymark OU6	BORING NO.:	MF-101
PROJECT NO.:	N4106-0320	START DATE:	7/31/02 @ 1440
LOGGED BY:	C. Rousseau	COMPLETION: DATE:	7/31/02 @ 1630
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		CHECKED BY:	TD
TRANSCRIBED BY:	LJD	ELEVATION FROM:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							∂ 0.3' – Topsoil, grass, roots			
1	S-1	1.7 / 2.0	OU6-SO-MF-101-0002	Sand & Gravel (fill)	Loose	Brown	Poorly graded fine to medium sand w/silt, trace	SP	Dry, no man made materials noted in sample.	PID = 0.0 FID = 0.0
2	@ 1455		7/31/02 @ 1455 *confirmation* 7/31/02				fine to medium gravel.			
3	S-2	1.7 / 2.0	OU6-SO-MF-101-0204						Wet, PACM noted in sample and slag.	PID = 0.0 FID = 0.0
4	@ 1500		7/31/02 @ 1500							
5	S-3	2.0 / 2.0	OU6-SO-MF-101-0406				Poorly graded fine to medium sand, w/silt, trace		Wet, PACM noted in sample.	PID = 0.0 FID = 29.0
6	@ 1515		7/31/02 @ 1515				fine to medium gravel.			
7		2.0 / 2.0	OU6-SO-MF-101-0608		Medium Dense	Dark Brown			Saturated, large pieces of PACM noted in sample.	PID = 0.0 FID = 108
8			7/31/02 @ 1525							
9		1.7 / 2.0	OU6-SO-MF-101-0810						No man made material noted in sample.	PID = 0.0 FID = 0.0
10			7/31/02 @ 1540				Increased fine sand and silt, less gravel, roofing shingles @ 9.7'	SM		
11		1.6 / 2.0	OU6-SO-MF-101-1012				Poorly graded fine to medium sand, w/silt, fine gravel.			PID = 0.0 FID = 450
12			7/31/02 @ 1550 *confirmation* 7/31/02	Roofing Shingles			Roofing shingles @ 11.0 ft bgs approx. ∂ 1.0 ft. bgs.			
13		1.8 / 2.0	OU6-SO-MF-101-1214	Sand & Gravel			Poorly graded fine to medium sand, w/silt, fine	SP		PID = 0.0 FID = 55
14			7/31/02 @ 1600	Sand & Gravel			Roofing shingles @ 12.5 ft. to ∂ 13.5 ft. trace organics (wood) bottom 0.5 ft.			
15		1.9 / 2.0	OU6-SO-MF-101-1416				Poorly graded fine to coarse sand, w/fine gravel, trace silt.			PID = 0.0 FID = 147
16			7/31/02 @ 1620	Organic Silts			Well graded sand, mostly fine sand, and silt, trace fine gravel, organics.	OL		

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	FID (A) PID (A). 1 – Bottom of exploration @ 16.0 ft. bgs, organic silts encountered, possible native material, no PACM or man made material observed.

Tetra Tech NUS, Inc.

BORING NO.: MF-101

BORING LOG FOR:	Raymark OU6	BORING NO.:	MF-102
PROJECT NO.:	N4106-0320	START DATE:	8/1/02 @ 0830
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/1/02 @ 1630
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							∂ 0.3' – Topsoil, grass, roots			
1	S-1	1.3 / 2.0	OU6-SO-MF-102-0002	Sand	Loose	Brown	Poorly graded fine to medium sand, w/silt,	SP	Dry, rock frags, organics, roots, glass, no PACM or odor, possible coal.	PID = 0.0 FID = 0.0
2	@ 0905		8/1/02 @ 1905				trace fine to coarse gravel.			
3	S-2	1.5 / 2.0	OU6-SO-MF-102-0204 8/1/02 @ 0930	Silty	Medium	To	3.0 – 4.0 ft. Increased fine sand and silts, black		Dry, moist, no PACM or odor, trace slag, organic material.	PID = 0.0 FID = 0.0
4	@ 0930		Duplicate @ 0940 8/1/02	Sand (Fill)	Dense	Black	color, moist.	SM		
5	S-3	1.8 / 2.0	OU6-SO-MF-102-0406				Poorly graded fine to medium sand w/silt, trace		Moist, no PACM trace slag, cinders, yellow.	PID = 0.0 FID = 0.0
6	@ 1015		8/1/02 @ 1015 MS/MSD				fine gravel, trace slag, cinders.			
7	S-4	1.5 / 2.0	OU6-SO-MF-102-0608			To	Poorly graded fine to medium sand w/silt		Moist-wet, no PACM, trace organics (wood), rock frags, glass.	PID = 0.0 FID = 2.0
8	@ 1045		8/1/02 @ 1045			Brown	trace fine gravel, trace organics.			
9	S-5	1.2 / 2.0	OU6-SO-MF-102-0810	Silty		Dark	Poorly graded fine to medium sand, w/silt,		Moist, wet, PACM material, fiberous @ 9.8 ft. brake pads, brick frags, shingles	PID = 0.0 FID = 10.5
10	@ 1105		8/1/02 @ 1105	Sand (Fill)		Brown	trace fine gravel.			
11		0.2 / 2.0	OU6-SO-MF-102-1012	Minimal Recovery			Possible meadow material encountered	OL	Moist, organics	PID = NA FID = NA
12			8/1/02 Not enough mat. for sample			Brown	fine sand w/silt.			
13	S-6 @ 1225	0.9 / 2.0	OU6-SO-MF-102-1214 8/1/02 @ 1225	Organic Silts	Dense		Fine sand, organic silts, meadow	OL	Moist-wet, organics, meadow material, sulfur odor.	PID = 0.0 FID = 48
14						Brown	material encountered.			
				BOE						

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (A) PID (A). 1 – Bottom of exploration @ 14.0 ft. bgs, encountered meadow material, organic silts, possible native material.	BORING NO.: MF-102	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	MF-103
PROJECT NO.:	N4106-0320	START DATE:	8/1/02 @ 1420
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/1/02 @ 1625
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							∂ 0.3' – Sand & gravel			
1	S-1	1.2 / 2.0	OU6-SO-MF-103-0002	Sand & Gravel (Fill)	Loose	Brown	Poorly graded fine to coarse sand, w/fine to medium	SP	Dry, brick frags, rock frags, asphalt pieces, no odor or PACM.	PID = 0.0 FID = 0.0
2	@ 1425		8/1/02 @ 1430				gravel.			
3	S-2	1.7 / 2.0	OU6-SO-MF-103-0204		Medium				Dry-moist, brick frags, rock frags, asphalt pieces, no odor or PACM.	PID = 0.0 FID = 5.0
4	@ 1435		8/1/02 @ 1435		Dense		Increasing fine sand, less coarse material.			
5	S-3	1.9 / 2.0	OU6-SO-MF-103-0406			To	Poorly graded fine to medium sand, w/trace		Dry-moist, glass and slag pieces, possible asphalt, no odor or PACM.	PID = 11.3 FID =45
6	@ 1440		8/1/02 @ 1440			Black	silt and fine to medium gravel, trace slag.			
7	S-4	1.9 / 2.0	OU6-SO-MF-103-0608			To			Moist, brick frags, trace slag, no odor or PACM.	PID = 1.5 FID = 0.0
8	@ 1500		8/1/02 @ 1500			Brown	@ 7.0 ft. concrete, ∂ 0.3 ft. thick Fine to medium sand, w/silt, fine to medium gravel.			
9	S-5	1.9 / 2.0	OU6-SO-MF-103-0810			Black To	Poorly graded fine to medium sand, w/silt,		Moist-wet, trace slag, no odor or PACM.	PID = 0.0 FID = 1.3
10	@ 1510		8/1/02 @ 1510			Gray	trace fine gravel, trace sand.	SM		
11	S-6	1.3 / 2.0	OU6-SO-MF-103-1012			Black			Wet, trace slag, no odor or PACM.	PID = 0.0 FID = 0.0
12	@ 1530		8/1/02 @ 1530							
13	S-7	0.4 / 2.0	OU6-SO-MF-103-1214		Loose				Wet, slag, no odor or PACM.	PID = 0.0 FID = 1.2
14	@ 1550		8/1/02 @ 1550				Slag piece ∂0.3 ft. fine to medium sand, w/silt, trace fine gravel.			
15	S-8	1.4 / 2.0	OU6-SO-MF-103-1416	Organic Silt	Dense	Gray		OL	Moist-wet, no PACM, sulfur odor, organic material.	PID = 37.0 FID = 11.0
16	@ 1615		8/1/02 @ 1615			Brown	Well graded fine sand, w/silt and organic, meadow material.			

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	FID (B) PID (B). 1 – Bottom of exploration @ 16.0 ft. bgs, meadow material, organic silts encountered, possible native material.

Tetra Tech NUS, Inc.

BORING NO.: MF-103

BORING LOG FOR:	Raymark OU6			BORING NO.:	MF-104
PROJECT NO.:	N4106-0320			START DATE:	8/2/02 @ 0940
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/2/02 @ 1050
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1	S-1	1.6 / 2.0	OU6-SO-MF-104-0002	Topsoil	Loose	Brown	∂ 0.6' – Topsoil, fine sand & silt, trace gravel	SP	Dry, large rock frags ∂ 0.2',trace organics, no PACM or odor.	PID = 0.0
				Sand			0.6-2.0' Poorly graded fine to medium sand			FID = 0.0
2	@ 0945		8/2/02 @ 0945	& Gravel (Fill)			w/fine to medium gravel.			
3	S-2	1.8 / 2.0	OU6-SO-MF-104-0204		Medium		2.8-3.6' Fine to medium sand & silt, w/trace gravel	SM	Dry-moist, PACM 2.8-3.6', fiberous, no odor, nails.	PID = 0.0 FID = 0.0
4	@ 1000		8/2/02 @ 1000		Dense		PACM observed, trace slag.			
5	S-3	1.7 / 2.0	OU6-SO-MF-104-0406				Poorly graded medium to coarse sand, w/fine	SP	Moist, no PACM observed, slag frags., no odor.	PID = 0.0 FID = 43.0
6	@ 1005		8/2/02 @ 1010 (2)			Gray	gravel, trace silt, trace slag.			
7	S-4	1.1 / 2.0	OU6-SO-MF-104-0608				Poorly graded fine to medium sand, w/fine gravel		Moist-wet, slag frags., no odor.	PID = 0.0 FID = 3.5
8	@ 1010		8/2/02 @ 1030			Brown	increasing fine sands and silt @ 7.5-8.0 ft. bgs	SM		
9	S-5	0.3 / 2.0	OU6-SO-MF-104-0810				Poorly graded fine to medium sand, w/silt		Moist-wet, slag, no PACM observed.	PID = 0.0 FID = 0.0
10	@ 1030		8/2/02 @ 1040			Gray To	trace fine gravel, trace slag.			
11		0.5 / 2.0	OU6-SO-MF-104-1012			Black			Moist-wet, organics, meadow material, no PACM or man made materials.	PID = 0.0 FID = 182
12			8/1202	Organic Silt		Brown	Fine sand and silt, organic material, roots, meadow material.	OL		
				BOE						

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (B) PID (B). 1 – Bottom of exploration @ 12.0 ft. bgs, meadow material encountered, possible native material, no PACM or man made materials. 2- Confirmation sample collected.	BORING NO.: MF-104	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	MF-105
PROJECT NO.:	N4106-0320			START DATE:	8/2/02 @ 1100
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/2/02 @ 1210
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1	S-1	1.5 / 2.0	OU6-SO-MF-105-0002	Sand & Gravel (Fill)	Loose	Light Brown	Poorly graded fine to medium sand w/gravel.	SP	Dry, no PACM or man made materials, no odor.	PID = 0.0 FID = 0.0
2	@ 1125		8/2/02 @ 1125							
3	S-2	1.3 / 2.0	OU6-SO-MF-105-0204		Loose	Medium	Poorly graded fine to medium sand, w/gravel,		Dry-moist, glass, slag frags., PACM, no odor.	PID = 0.0 FID = 10.2
4	@ 1130		8/2/02 @ 1130			Brown	trace silt, trace slag.			
5	S-3	1.7 / 2.0	OU6-SO-MF-105-0406		Medium				Dry-moist, slag, asphalt, no PACM noted.	PID = 0.0 FID = 24.7
6	@ 1140		8/2/02 @ 1140		Dense					
7	S-4	1.3 / 2.0	OU6-SO-MF-105-0608			To	Poorly graded fine to medium sand, w/fine		Moist, slag pieces, asphalt pieces, brick pieces.	PID = 0.0 FID = 51.0
8	@ 1150		8/2/02 @ 1150			Black	gravel and trace silt.			
9	S-5	2.0 / 2.0	OU6-SO-MF-105-0810			Brown			Moist-wet, no PACM slight sulfur odor.	PID = 0.0 FID = 247
10	@ 1200		8/2/02 @ 1200	OL			Fine sand and silt, organic material, meadow material 9.0-10.0 ft.	OL		
				BOE						

TYPE OF DRILLING RIG:	Truck mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (B) PID (B). 1 – Bottom of exploration @ 10.0 ft. bgs, organic silt, meadow material, possible native material.	BORING NO.: MF-105	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	MF-106
PROJECT NO.:	N4106-0320	START DATE:	8/1/02 @ 1610
LOGGED BY:	A. Roy	COMPLETION: DATE:	8/1/02 @ 1640
TRANSCRIBED BY:	LJD	MON. WELL NO.:	NA
DRILLED BY (Company/Driller):	ADT/A. Hurst	CHECKED BY:	TD
GRD. SURFACE ELEVATION:		ELEVATION FROM:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		2.0 / 2.0	OU6-SO-MF-106-0002 8/1/02 @ 1645	Sand W/silt		Brown	Poorly graded sand w/silt mostly fine to medium sand w/some silt & coarse sand, trace gravel.	SP-SM	Dry, asphalt noted in bottom of sample.	PID = 0.0 FID = 0.0
2										
3		2.0 / 2.0	OU6-SO-MF-106-0204 8/1/02 @ 1620						Dry, no man made material noted in sample.	PID = 0.0 FID = 0.0
4										
5		0.8 / 2.0	OU6-SO-MF-106-0406 8/1/02 @ 1630						Dry-moist, possible man made material in bottom of sample.	PID = 0.0 FID = 0.0
6										
7		0.4 / 2.0	OU6-SO-MF-106-0608 8/1/02 @ 1635	Sandy Silt		Dark Gray	Sandy silt, mostly silt and fine sand w/trace coarse sand and gravel, trace organics.	ML	Moist, no man made material noted in sample.	PID = 0.0 FID = 0.0
8										
				BOE						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E 1 – BOE @ 8.0 ft. bgs, no man made material noted in bottom of sample.	BORING NO.: MF-106	PAGE: 1 OF 1

VACANT DOT LOT ABUTTING I-95

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A1-SB04
PROJECT NO.:	N7491-0320		START DATE: 7-22-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 7-22-97
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~8.0'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG. (ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L (ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
	4		OU3-A1-SB04-0002			BRN	S-1A=6" Loam, topsoil soil, silty, SAND, with			
0	5	1.0 / 2.0					organic debris		Dry and loose	0
	7									
	9		0950 S-1				S-1B=6" - gravelly, SAND, FILL, asphalt + brick.		Trace brick asphalt	
	3		-0204							
2	3	1.2 / 2.0				BRN	Gravelly, silty, SAND. Mostly F, poorly	SP	Trace, asphalt	0
	4					LT				
	5		1000 S-2			BRN	Graded Sand, some - little silt, little f-c gravel		Fragments dry	
	7		-0406				S-3A=3"- old topsoil brown loam w/roots.		Dry. Concrete + vit. pipe	
4	13	2.0 / 2.0					S-3B=21"- gravelly, SAND TR. few silt		Frag.	0
	19						FILL.		TR. Brick broken cobble +	
	25		1010 S-3				Gravel is mostly course and subangular		gravel wire	
	26		-0608							
6	26	1.8 / 2.0					SAND. Mostly f-c well graded SAND.		No man-made debris	8
	27									
	23		1020 S-4				Some little fine well rounded gravel	SW	Saturated @ 7'	
	7		-0810							
8	11	1.35 / 2.0								0
	18									
	19		1030 S-5							
	14		-1012							
10	18	1.6 / 2.0								0
	19									
	20		1040 S-6							
	12		-1214							
12	27	1.8 / 2.0								0
	21									
	23		1055 S-7							
	17		-1416							
14	17	1.3 / 2.0								0
	16									
16	16		1100 S-8							

EOB @ 16

TYPE OF DRILLING RIG:	CME-75 (truck)
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	7.5' MEASURED FROM INSIDE OF AUGERS. BOTTOM OF AUGER @ 14' BGS
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A1-SB05
PROJECT NO.:	N7491-0320		START DATE: 7-18-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 7-18-97
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~7.0'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0	9	1.0 / 1.5	OU3-A1-SB05-0002			Brown	4" – Asphalt Fill SAND mostly f-m poorly graded	SP	Dry	0
	16						SAND trace. Few fine gravel, TR silt debris inc. wire,		Wire, wood and glass	
	10		1035 S-1				Wire & grass			
	5	1.8 / 2.0	-0204				2-3.5 – silty, SAND few f-c rounded gravel trace	SM	No Man-made	0
2	4						Roots and twigs		debris noted	
	5			3.5			3.5-4 SILT – little fine sand. Little-some roots &			
	5		1044 S-2				Plant fibers	ML/SM	Dry-moist	
	3	1.6 / 2.0	-0406			Brown	SILT, few clay, trace F. sand slightly plastic	ML	Moist	4
4	4					Gray				
	3									
	3		1055 S-3							
	3	1.7 / 2.0	-0608			Brown				32
6	3						few – little organics (plant fibers & roots)			
	3									
	2		1105 S-4							
	WOH	2.0 / 2.0	-0810							76
8	WOH									
	1									
	2		1115 S-5							
	WOH	2.0 / 2.0	-1012				Trace sand lens or seams ½" thick			0
10	WOH									
	WOH									
	WOH		1130 S-6							
	WOH	2.0 / 2.0	-1214							71
12	WOH									
	2									
	1		1135 S-7							
	WOH	2.0 / 2.0	-1416				Trace – few sand (med sand) lens or seams ¼" thick			12
14	2									
	2									
16	1		1145 S-8							

EOB @ 16"

TYPE OF DRILLING RIG:	CME-75 (truck MT)
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	WATER MEAS. @ 12' INSIDE HSA W/AUGERS TO 14'
OTHER OBSERVATIONS:	H2S ODOR, POSSIBLE METHANE DETECTED 0.0 PPM DETECTED W/PPM

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		
PROJECT NO.:	N7491-0320		
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY:	FMD
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		
GRD. SURFACE ELEVATION:	~7.0'	ELEVATION FROM:	Estimated from topo.

BORING NO.:	A1-SB06
START DATE:	7-21-97
COMPLETION DATE:	7-21-97
MON. WELL NO.:	
CHECKED BY:	THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0		1.3 / 1.5	OU3-A1-SB06-0002		Med. Dense	Gray Brown	2" - Asphalt 2" – D Gravelly, SAND. mostly f. med. poorly graded	SP	DRY	6.6
	12									
	18						sand, f-c subang., subround. Gravel, TR silt			
	20		1330 S-1							
	16		-0204							12.0
2	12	1.6 / 2.0								
	11									
	5		1340 S-2							
	1		-0406	4.5	Very Loose		S-3A = Similar to above		Damp	100
4	3	2.0 / 2.0					S-3B = organic, SILT mostly silt, little organic matter	OL		
	2					Brown	& fibers). A ¼ - ½" thick black silt @ contact with SP			
	1		1355 S-3	Silt			unit above			
	2		-0608	Fill			S-4 = Similar to S-3A			38
6	2	1.5 / 2.0		Silt						
	1						Similiar to S-3B. SILT with plant fibers & roots	ML		0
	1		1400 S-4							
	WOH		-0810							48
8	WOH	2.0 / 2.0								
	1									
	1		1410 S-5							
	WOH		-1012							0
10	WOH	2.0 / 2.0								
	WOH									
	WOH		1420 S-6							
	WOH		-1214							12
12	1	2.0 / 2.0								
	1						Trace fine sand			
	1		1430 S-7							
	WOH		-1416	Sand			Silty SAND. Mostly F-M poorly graded sand some silt	SP	Saturated	8
14	WOH	0.75 / 2.0				Yellow Brown	grading coarser downward, TR F-C rounded gravel			
	6									
16	5		1440 S-8							

EOB @ 16"

TYPE OF DRILLING RIG:	CME-75 (truck MT)
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	NONE MEASURED FROM INSIDE AUGERS
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: A1-SB06

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A1-SB07
PROJECT NO.:	N7491-0320		START DATE: 7-21-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 7-22-97
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~8.0'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0	7 9 5 4	1.4 / 2.0	OU3-A1-SBO7-0002 1540 S-1			Light brown Dark gray	S-1A = Gravelly, SAND TR silt trace grass & weeds S-1B = sandy, SILT TR fine gravel		Dry Moist. compact	0
2	4 4 4 5	1.0 / 2.0	-0204 1550 S-2			Dark gray black	Silt TR fine sand trace shell fragments			0
4	2 3 2 2	2.0 / 2.0	-0406 1555 S-3				3" layer of gray fine sand w/poss. asbestos @ bottom of sample			0
6	2 3 3 3	2.0 / 2.0	-0608 1600 S-4				TR fine sand len's			11.6
8	4 5 5 4	1.1 / 2.0	-0810 1605 S-5			Gray Light Gray	SAND mostly f-c well graded sand TR few silt TR fine gravel	SW	Saturated	4.0
10	3 3 6 9	1.1 / 2.0	-1012 0830 S-6			Brown			start here on 7-22-97	25
12	8 10 11 13	2.0 / 2.0	-1214 0840 S-7			Yellow Brown				0
14	21 28	2.0 / 2.0	-1416						possible pet. odor very light odor	25
16	12 14		0850 S-8							

EOB @ 16'

TYPE OF DRILLING RIG:	CME-75 (truck)
METHOD OF ADVANCING BORING:	4.25' I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	WATER @ 2.5 BGS @ 0820 – 7/22/97 W/HSA @ 10. WATER @ 8' INSIDE AUGERS @
OTHER OBSERVATIONS:	EOB. ON 7/21/97. STOP BORING W/HSA @ 10' READY TO SAMPLE 1012

Tetra Tech NUS, Inc.

BORING NO.: A1-SB07

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: A1-SB10
PROJECT NO.:	N7491-0320		START DATE: 7-23-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: FMD	COMPLETION DATE: 7-23-97
DRILLED BY (Company/Driller):	ATL / Mike Hawkins		MON. WELL NO.:
GRD. SURFACE ELEVATION:	~12.0'	ELEVATION FROM: Estimated from topo.	CHECKED BY: THD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID	PID]
0	7	1.2	OU3-A1-SB10-0002			Brown	3" - Asphalt. S-1A = 3" gravelly, SAND, TR. silt.		Dry, clean, fill	0	0
	7	1.5				Yellowish	S-1B = SAND, mostly f-m poorly graded sand,				
	7		1150 S-1			brown	few fine gravel, TR. silt.	SP			
	4		-0204								
2	3	1.4								1.0	2.0
	3	2.0									
	3		1155 S-2								
	2		-0406								
4	2	1.2								0	0.4
	2	2.0									
	2		1200 S-3								
	3		-0608								
6	3	0.2								0	0
	3	2.0									
	3		1205 S-4								
	3		-0810								
8	3	1.2									
	5	2.0		9.5'						0	0
	9		1210 S-5			Brn - gray	FILL - sandy, gravel TR. silt. brick + ceramic				
	11		-1012	10.25'			S-6A v = .25' – similar to above		Moist wet	9.8	6.8
10	14	1.1				Lt. brown	S-6B = .85' - sand, some gravel. mostly f-c		Dry	0	0
	12	2.0									
	13		1220 S-6				Well graded SAND. Some f-c rounded gravel.	SW			
	16		-1214								
12	14	1.7							Dry	4	3.2
	14	2.0									
	18		1235 S-7								
	10		-1416								
14	11	1.15							Saturated	8	6
	11	2.0									
16	9		1240 S-8								

EOB @ 16'

TYPE OF DRILLING RIG:	CME-75
METHOD OF ADVANCING BORING:	4.25" I.D. HSA
METHOD OF SOIL SAMPLING:	3" O.D. SPUT BARREL DRIVEN WITH A 300 LB. HAMMER
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	14.2' MEAS. INSIDE AUGERS W/AUGERS TO 14'
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: A1-SB10

BORING LOG FOR:	Raymark OU2			BORING NO.:	SB-503B
PROJECT NO.:	N4236-0320			START DATE:	9/16/02 @ 1030
LOGGED BY:	Chuck Meyer	TRANSCRIBED BY:	LAH	COMPLETION DATE:	9/20/02 @ 1350
DRILLED BY (Company/Driller):	ADT/Les Darrow			MON. WELL NO.:	MW-503B
GRD. SURFACE ELEVATION:	6.7 Ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
	5	1.3' / 2.0'	*OU2-SO-503B-0002	Sand	Medium	Gray	Fine to medium grained SAND, trace silt and rock fragments	SP	No MMM or PACM present. The soil was very dry	FID=0.0
	11		FID=0.0		Dense					PID=0.0
	11		PID=0.0 headspace			Light brown	Fine to medium grained SAND, trace silt, rock fragments, & gravel			FID=0.0
2	28		8/16/02 1040							PID=0.0
	19	1.2' / 2.0'	OU2-SO-503B-0204**						No MMM or PACM present. Phragmites, roots, mica, schist in sample shoe, very dry	FID=78.2
	10		FID=5.4 8/16/03							PID=0.0
	12		PID=0.0 headspace	Organic Silt		Brown to Black	Organic SILT; roots, trace gravel and clay			FID=0.0
4	25		DUP-01 1140 1130					OL		PID=0.0
	6	0.6' / 2.0'	OU2-SO-503B-0406	Sand & Gravel	Loose		Coarse grained SAND and gravel	GM	No MMM or PACM present. Sand and gravel appears to be sluff, wet due to washing	FID=0.0
	9		FID=53.5							PID=0.0
	5		PID=0.0 headspace			Dark Gray to black	Fine sandy SILT, some organics			FID=0.0
6	3		8/19/02 1055					OL		PID=0.0
	1	0.6' / 2.0'	OU2-SO-503B-0608		Very loose		Coarse grained SAND to gravel, sluff	GM	No MMM or PACM present. 5" casing driven to 8'2". Casing driven to 10'.	FID=0.0
	1		FID=0.0							PID=0.0
	1		PID=0.0 headspace	Organic Silt			Organic SILT, some fine sand, some roots			FID=0.0
8	1		8/19/02 1115					OL		PID=0.0
	1	1.2' / 2.0'	OU2-SO-503B-0810						No MMM or PACM present. 4" casing driven to 10', sulfur odor present	FID=144
			FID=131							PID=0.0
	1/12"		PID=0.0 headspace							FID=144
10	1		8/19/02 1140							PID=0.0
	4	1.6' / 2.0'	OU2-SO-503B-1012				Organic SILT, trace fine sand, rocks, gravel and roots		No MMM or PACM present, sulfur odor observed	FID=130
	2		FID=297							PID=0.0
	2		PID=0.0 headspace							FID=182
12	2		8/19/02 1245							PID=0.0
							Began setting up for interval sampling. Material in wash water was gray with a few small rocks			
14										
	3	2.0' / 2.0'	OU2-SO-503B-1410				Organic SILT with peat, trace sand and trace gravel		No MMM or PACM present, sulfur odor very	FID=145
	2		FID=248							PID=0.0
	4		PID=1.5 headspace							FID=245
16	2		8/19/02 1310							PID=0.0

TYPE OF DRILLING RIG:	CME 75	PACM= Potentially Asbestos Containing Material MMM= Man Made Material * sample used for MS/MSD ** sample was used for Dup-01 assigned time 1140	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	2" split spoon 4" drive and wash 4" casing		
METHOD OF SOIL SAMPLING:	140 lb. hammer 30" drop		
METHOD OF ROCK CORING:	NX or NQ		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Instrument FID F PID A	BORING NO.: SB-503B	PAGE: 1 OF 7

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2			BORING NO.:	SB-503B
PROJECT NO.:	N4236-0320			START DATE:	9/16/02 @ 1030
LOGGED BY:	Chuck Meyer	TRANSCRIBED BY:	LAH	COMPLETION DATE:	9/20/02 @ 1350
DRILLED BY (Company/Driller):	ADT/Les Darrow			MON. WELL NO.:	MW-503B
GRD. SURFACE ELEVATION:	6.7 Ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
16										
				Organic silt		Gray to	Material from the discharge line to the mud pan was a gray			FID=0.0 PID=0.0
18						Black	to black. Some small rocks.			FID=0.0 PID=0.0
	7			Sand		Gray	Well graded SAND, trace gravel and rock fragments.		No PACM or MMM present. No sulfur odor was present. Wet.	FID=143
20	10	1.3'	OU2-SO-503B-1921 FID=233		Loose			SW		PID=0.0
	8	2.0'	PID=0.0 headspace		↓			↓		FID=87
	6		8/19/02							PID=0.0
22										
24										
	2		OU2-SO-503B-2426		Very Loose	Light Gray to brown	Well graded SAND, some gravel and rock fragments.		No PACM or MMM present. No odor was present, wet.	FID=0.0 PID=0.0
	3	1.0'	FID=145							
	4	2.0'	PID=0.0 headspace		↓					FID=0.0
26	4		8/19/02 1345							PID=0.0
28										
	8		OU2-SO-503B-2931		Medium Dense		Well graded SAND, some gravel. The gravel was rounded and trace rock fragments were observed.		No PACM or MMM present. No odors present, wet.	FID=0.0
30	10	0.8'	FID=76.2			Orange				PID=0.0
	14	2.0'	PID=0.0 headspace		↓	to light Brown		↓		FID=0.0
	12		8/19/02							PID=0.0
32										

TYPE OF DRILLING RIG:	CME 75		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	2" split spoon 4" drive and wash casing	PACM= Potentially Asbestos Containing Material	
METHOD OF SOIL SAMPLING:	140 lb. Hammer 30" drop	MMM= Man Made Material	
METHOD OF ROCK CORING:	NX or NQ		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Instrument FID F PID A	BORING NO.: SB-503B	PAGE: 2 OF 7

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2			BORING NO.:	SB-503B
PROJECT NO.:	N4236-0320			START DATE:	9/16/02 @ 1030
LOGGED BY:	Chuck Meyer	TRANSCRIBED BY:	LAH	COMPLETION DATE:	9/20/02 @ 1350
DRILLED BY (Company/Driller):	ADT/Les Darrow			MON. WELL NO.:	MW-503B
GRD. SURFACE ELEVATION:	6.7 Ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
32				Sand			Coarse grained sand and gravel. Discharge water was a light brown.			
34										
	3	0.5' / 2.0'	OU2-SO-503B-3436		Very loose loose	Brown to gray	Well graded SAND, some gravel, trace silt and angular rock fragments.	SW	No PACM or MMM present. No odor was noted, wet.	FID=0.0 PID=0.0
	7		FID=1.4							
	8		PID=0.0 headspace							FID=0.0
36	8		8/19/02 1430							PID=0.0
							Coarse grained sand and gravel from discharge line of the well. The water was a gray to light brown.			
38										
	2	0.4' / 2.0'	OU2-SO-503B-3941		Very Loose		Well graded SAND, some gravel and rock fragments, trace silt.		No PACM or MMM present. No odor was noted, wet.	FID=0.0 PID=0.0
40	2		FID=378							
	3		PID=0.5 headspace							FID=0.0
	4		8/19/02 1455							PID=0.0
42							The material was a brown coarse to medium grained sand with rounded gravel.			
44										
	7	0.0' / 2.0'	OU2-SO-503B-4446	Gravel	Loose		A quartz cobble was found in the drive shoe GRAVEL and SAND were observed.		No PACM or MMM present. No odor was noted, wet.	
	5		FID=N/A							
	4		PID=N/A headspace							
46	4		8/19/02							
	3	0.0' / 2.0'	OU2-SO-503B-4648				Rounded GRAVEL and some sands were noted in the shoe.		2" split spoon was driven by 300 lb. hammer.	
	4		FID=N/A							
	5		PID=N/A headspace							
48	6		8/19/02							

TYPE OF DRILLING RIG:	CME 75	PACM= Potentially Asbestos Containing Material	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	2" split spoon 4" drive and wash casing	MMM= Man Made Material	
METHOD OF SOIL SAMPLING:	140 lb. hammer 30" drop		
METHOD OF ROCK CORING:	NX or NQ		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Instrument FID=F PID=A	BORING NO.: SB-503B	PAGE: 3 OF 7

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2			BORING NO.:	SB-503B
PROJECT NO.:	N4236-0320			START DATE:	9/16/02 @ 1030
LOGGED BY:	Chuck Meyer	TRANSCRIBED BY:	LAH	COMPLETION DATE:	9/20/02 @ 1350
DRILLED BY (Company/Driller):	ADT/Les Darrow			MON. WELL NO.:	MW-503B
GRD. SURFACE ELEVATION:	6.7 Ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
48				gravel						
	3	0.8' / 2.0'	OU2-SO-503B-4951						3" spoon was used for recovery. NO PACM or MMM was noted, wet.	
50	5		FID=0.0		Loose		Medium to coarse grained sandy GRAVEL, poorly graded rounded gravel, some fine sand and trace silt.	GP		FID=0.0 PID=0.0
	5		PID=0.0 headspace		↓					FID=0.0
	6		8/19/02 1620							PID=0.0
52										
54										
	3	1.1' / 2.0'	OU2-SO-503B-5456		Very Loose	Light Gray	Medium to coarse grained SAND, some gravel, trace silt to 0.9'	SP	No PACM or MMM was observed in the split spoon.	FID=0.0 PID=0.0
	3		FID=19.4							
	4		PID=0.0 headspace			Light Brown	0.9 to 1.1' - fine grained silty SAND.			FID=0.0
56	6		8/20/02 0840	Silty Sand	↓			SM		PID=0.0
							Discharge water turned a gray, no fines were left in the strainer.			
58										
										FID=0.0 PID=0.0
	2	1.3' / 2.0'	OU2-SO-503B-5961		Very Loose	Gray	Fine SAND and SILT with no rocks or gravel fragments.	SM		FID=0.0 PID=0.0
60	4		FID=37.9							
	6		PID=0.0 headspace		Loose					FID=0.0
	8		8/20/02 0920							PID=0.0
62							Discharge water was a gray color, nothing was found in the strainer, drilling went very easy.			
									↓	
64										

TYPE OF DRILLING RIG:	CME 75		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	2" split spoon 4" drive and wash casing	PACM= Potentially Asbestos Containing Material	
METHOD OF SOIL SAMPLING:	140 lb. hammer 30" drop	MMM= Man Made Material	
METHOD OF ROCK CORING:	NX or NQ		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Instrument FID=F PID=A	BORING NO.: SB-503B	PAGE: 4 OF 7

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2			BORING NO.:	SB-503B
PROJECT NO.:	N4236-0320			START DATE:	9/16/02 @ 1030
LOGGED BY:	Chuck Meyer	TRANSCRIBED BY:	LAH	COMPLETION DATE:	9/20/02 @ 1350
DRILLED BY (Company/Driller):	ADT/Les Darrow			MON. WELL NO.:	MW-503B
GRD. SURFACE ELEVATION:	6.7 Ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
64										
	2		OU2-SO-503B-6466	Silty	Very		Clayey SILT, trace sand, no rocks or gravel 0.6'		No MMM or PACM was observed in the split spoon.	FID=0.0
	4	1.3' / 2.0'	FID=19.4	clay	Loose	Gray		SC		PID=0.0
	6		PID=12.8 headspace			Light	sandy, Clayey SILT, trace medium sand in bands and rock			FID=0.0
66	8		8/20/02 1000		Loose	Brown	fragments.	SM		PID=0.0
							The discharge water was a light brown in color with gravel and rock fragments from the water.			
68										
	3		OU2-SO-503B-6971	Sand	Very		Well graded SAND, some rounded gravel, trace silt.			FID=0.0
70	5	1.1' / 2.0'	FID=50.7		Loose			SW		PID=0.0
	6		PID=11.3 headspace							FID=0.0
	10		8/20/02 1045		Loose					PID=0.0
72										
74										
	3		OU2-SO-503B-7476	Sandy		Light	Sandy SILT, trace clay 0.5'			FID=0.0
	6	1.2' / 2.0'	FID=77.2	Silt	Loose	Brown		ML		PID=0.0
	7		PID=19.3 headspace			Light	Fine to medium grained SAND, no rock fragments or gravel.			FID=0.0
76	10		8/20/02 1130	Sand	Loose	Brown		SP		PID=0.0
78										
	2	1.3' / 2.0'	OU2-503B-7980		Very		Fine grained SAND, some silt, no gravel or rock			FID=0.0
80	2		FID=137		Loose		fragments. One clay lamination.	SM		PID=0.0

TYPE OF DRILLING RIG:	CME 75		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	2" split spoon 4" drive and wash casing	PACM= Potentially Asbestos Containing Material	
METHOD OF SOIL SAMPLING:	140 lb. hammer 30" drop	MMM= Man Made Material	
METHOD OF ROCK CORING:	NX or NQ		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Instrument FID=F PID=A	BORING NO.: SB-503B	PAGE: 5 OF 7

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2	BORING NO.:	SB-503B
PROJECT NO.:	N4236-0320	START DATE:	9/16/02 @ 1030
LOGGED BY:	Chuck Meyer	TRANSCRIBED BY: LAH	COMPLETION DATE: 9/20/02 @ 1350
DRILLED BY (Company/Driller):	ADT/Les Darrow	MON. WELL NO.:	MW-503B
GRD. SURFACE ELEVATION:	6.7 Ft.	ELEVATION FROM: NGVD 1929	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
80										
	4	1.3'	PID=31.7 headspace			Light	Was noted at 0.1 foot above the bottom of the shoe.		No PACM or MMM was observed in the split spoon.	FID=0.0
	7	2.0'	8/20/02 1245		Loose	Brown				PID=0.0
82										
84										
	21		OU2-SO-503B-8485.5				Sandy SILT, some rocks and gravel 0.5'.			FID=0.0
	35	1.3'	FID=51.7		Hard		Sandy SILT, no rocks or gravel 0.5'-0.9'.	ML		PID=0.0
	100 0.5	1.5'	PID=15.9 headspace				Potential saprolite mica schist with silty clay and gravel.			FID=0.0
86			8/20/02 1350							PID=0.0
88										
90										
		Core								
		Times	run 1							
			RQD=39"/60" = 65%		Medium		Highly weathered rock 0-0.5', high angle fractures in mica	Very	0840 coring run 1 was begun, the water was a gray color.	
92		6:18			Soft	Gray	schist pyrite on fracture plains slightly rounded fractures,	Broken		
		4:30			Medium Hard		Some, silt on bedding. Low to high angle fractures with rounded edges, some pyrite fractures are along the bedding	Broken		
94		4:00					plains. Low angle fractures along bedding plains. Weathered, rounded fracture with pyrite and silt mica schist.	Broken		
		3:50					Low angle fractures with quartz in fractures, some pyrite, some garnets present in mica schist.		0905 coring run 1 was sompleted to 96'.	
96		3:40					High angle fractures with quartz veins in fracture zone slightly weathered with pyrite and silt present in mica schist.	Blocky		

TYPE OF DRILLING RIG:	CME 75		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	2" split spoon 4" drive and wash casing	PACM= Potentially Asbestos Containing Material	
METHOD OF SOIL SAMPLING:	140 lb. hammer 30" drop	MMM= Man Made Material	
METHOD OF ROCK CORING:	NX or NQ		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Instrument FID=F PID=A	BORING NO.: SB-503B	PAGE: 6 OF 7

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2			BORING NO.:	SB-503B
PROJECT NO.:	N4236-0320			START DATE:	9/16/02 @ 1030
LOGGED BY:	Chuck Meyer	TRANSCRIBED BY:	LAH	COMPLETION DATE:	9/20/02 @ 1350
DRILLED BY (Company/Driller):	ADT/Les Darrow			MON. WELL NO.:	MW-503B
GRD. SURFACE ELEVATION:	6.7 Ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
96										
		3:30	run 2 RQD=39"/60" =65%	Schist	Medium Hard	Gray	Low angle fractures, weathered fractures with silt and some rounding.	Blocky	Coring run started 0915	
98		3:30					Fractures with quartz intrusions, highly fractured weathered zone 0.6-0.8' rounding had occurred.			
		3:20					High angle fracture with fractures having silt deposits, some rounding.			
100		3:15					0.3-0.7' was highly fractured. High angle fractures and rounding and silt present.	Broken		
		3:50	run 3 RQD=33"/36" = 92%				High angled fractures with silt and slightly rounded edges.		Coring run completed 0935	
102		5:00		Quartz		White	Quartz layer begins at 102.5' and went to 103.8' with parallel fractures in the quartz.		Coring run started 0950	
		5:35				White				
104		4:00		Schist		Gray	Low angle fracture in the schist. The quartz to schist zone was highly fractured and rounded.		Coring run completed 1005	
				EOB @ 104' bgs						

TYPE OF DRILLING RIG:	CME 75		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	2" split spoon 4" drive and wash casing	PACM= Potentially Asbestos Containing Material	
METHOD OF SOIL SAMPLING:	140 lb. hammer 30" drop	MMM= Man Made Material	
METHOD OF ROCK CORING:	NX or NQ		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Instrument FID=F PID=A	BORING NO.: SB-503B	PAGE: 7 OF 7

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2		BORING NO.: SB-528S
PROJECT NO.:	N4236-0320		START DATE: 10/28/02 @ 1130
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: LAH	COMPLETION DATE: 10/28/03 @ 1600
DRILLED BY (Company/Driller):	ADT/ Les Darrow		MON. WELL NO.: MW-528S
GRD. SURFACE ELEVATION:	9.2 Ft.	ELEVATION FROM: NGVD 1929	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
	1		OU2-SO-528S-0002	Organic		Brown to			Dry-moist, 2" spoon	
	4	1.4' / 2.0'		Silty	Loose	dark brown	0.3' organics, grass, roots, leaf litter material.	SM	4" casing – 140lb hammer	FID=0.7
	5			sand			0.3-1.4' poorly graded fine-medium SAND, some silt, trace		PACM – tile fragments	
2	3		10/28/02 1155			Black	coarse-gravel (sub-rounded to rounded)			PID=0.0
	3		OU2-SO-528S-0204						Dry-moist, 2" spoon	
	4	1.3' / 2.0'				Dark	Poorly graded fine-medium SAND, some silt		No PACM, MMM or odor	FID=5.9
	4					Brown	Trace coarse gravel (sub-rounded to rounded)		4" casing	
4	5		10/28/02 1200							PID=0.0
	4		OU2-SO-528S-0406	Sand					Moist, 2" spoon	
	5	0.5' / 2.0'				Brown	Well graded fine-coarse SAND, some fine & coarse gravel	SW	PACM – tile fragments	FID=4.5
	5						(rounded) Trace silt		4" casing - 140lb hammer	
6	2		10/28/02 1210							PID=0.0
	2		OU2-SO-528S-0608						Moist-wet 2" spoon	
	2	1.3' / 2.0'				Light	Poorly graded fine-medium SAND, trace silt, trace fine	SP-	No PACM, MMM or odor	FID=26.1
	7					Brown	gravel (rounded)		4" casing – 140lb hammer	
8	8		10/28/02 1215					SM		PID=0.0
	11		OU2-SO-528S-0810		Medium				Moist-wet, 2" spoon	
	12	0.65' / 2.0'		Sand &	Dense	Brown	Well graded fine-coarse SAND, some fine-gravel (sub-	SW	No PACM, MMM or odor	FID=0.0
	15			Gravel			angular-rounded) trace silt, slightly oxidized soil		4" casing – 140lb hammer	
10	14		10/28/02 1235							PID=0.0
	12		OU2-SO-528S-1012						Wet-saturated, 2" spoon	
	10	0.7' / 2.0'					Well graded fine-coarse SAND, some fine-gravel, trace silt		No PACM, MMM or odor	FID=0.0
	10								4" casing – 140lb hammer	
12	8		10/28/02 1250							PID=0.0
	8		OU2-SO-528S-1214							
	9	1.1' / 2.0'					Well graded fine-coarse SAND, some fine-gravel, trace silt,			FID=0.0
	9						quartz fragment in shoe (±2.0")			
14	10		10/28/02 1255							PID=0.0
	3		OU2-SO-528S-1416							
	6	0.5' / 2.0'					Well graded fine-coarse SAND, some fine-coarse gravel			FID=0.2
	8						(sub-angular-rounded) trace silt			
16	8		10/28/02 1420				±14.05' flakes of rust material >0.5" thick			PID=0.0
				EOB @ 16'						

TYPE OF DRILLING RIG:	CME75
METHOD OF ADVANCING BORING:	4" or 5" casing drive and wash
METHOD OF SOIL SAMPLING:	2" or 3" split spoon
METHOD OF ROCK CORING:	NX or NQ
GROUNDWATER LEVELS:	6.2' bgs in open boring
OTHER OBSERVATIONS:	FID (C) PID (A); PACM = potentially asbestos containing material; MMM = man made material.

Tetra Tech NUS, Inc.

BORING NO.: SB-528S

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2			BORING NO.:	SB-528SG
PROJECT NO.:	N4236-0320			START DATE:	11/4/02
LOGGED BY:	J. Lambert	TRANSCRIBED BY:	LJD	COMPLETION DATE:	11/4/02
DRILLED BY (Company/Driller):	ADT/ Les Darrow			MON. WELL NO.:	MW-528SG
GRD. SURFACE ELEVATION:	9.0 Ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION See boring log for MW-528S for soil profile details	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
						Brown	Fine-coarse SAND, trace organics.	SW		
2										
										PID = 0.0 FID = 0.0
4										
				EOB @ 5' bgs						
6										

TYPE OF DRILLING RIG:	CME75		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Push casing down, then knock soil out, push casing down again, make sure boring is at 5'		
METHOD OF SOIL SAMPLING:	NA		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	WL = 6.4' bgs (8.8 from to PVC), will set well at 5ft		
OTHER OBSERVATIONS:	No readings in the breathing zone	BORING NO.: SB-528SG	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU2	BORING NO.:	SB-520S
PROJECT NO.:	N4236-0320	START DATE:	9/27/02
LOGGED BY:	J. Lambert	TRANSCRIBED BY: LAH	COMPLETION DATE: 9/27/02
DRILLED BY (Company/Driller):	ADT/Jim Philbin	MON. WELL NO.:	MW-520S
GRD. SURFACE ELEVATION:	13.3 Ft.	ELEVATION FROM: NGVD 1929	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
	2	1.5' / 2.0'	OU2-SO-520S-0002		Medium	Dark Brown	Fine-medium SAND, some silt, some organics	SP	2" spoon 0.4' grade between layers	PID=0.2
	6									
	8				Dense	Light Brown	Fine-medium SAND, some coarse sand	SW		FID=0.0
2	9		0850							
	2	1.0' / 2.0'	OU2-SO-520S-0204			Medium	Fine-medium SAND, trace coarse sand, trace gravel	SW	2" spoon	PID=0.0
	3									
	17					Brown				
4	10		0900							FID=0.0
	5	0' / 2.0'	OU2-SO-520S-0406				**- NO RECOVERY -**		2" spoon	
	2									
	2		**NO RECOVERY**							
6	2		0910				Cement piece in top of next spoon – blocked 2" spoon			
	3	0.8' / 2.0'	OU2-SO-520S-0608			Light	Fine-coarse SAND, some gravel; piece of concrete at 6'	SW	3" spoon	PID=0.6
	7									
	9					Brown				
8	12		0915							FID=0.0
	5	0.4' / 2.0'	OU2-SO-520S-0810		Loose	Red	Fine-medium SAND, trace coarse sand, cobble at 8'	SW	2" spoon	PID=0.8
	7									
	4					Brown				
10	4		0925							FID=0.0
	2	0.5' / 2.0'	OU2-SO-520S-1012		Very	Dark	Silty SAND – fine sand, some silt, trace gravel	SM	2" spoon	PID=1.3
	3									
	1				Loose	Brown				
12	1		0935							FID=96.7
	5	1.0' / 2.0'	OU2-SO-520S-1214		Loose	Light	Fine-medium SAND, some silt, trace gravel, trace organics	SW	3" spoon	PID=3.8
	3									
	3					Brown			slight organic odor	
14	7		0945				(roots)			FID=168.6
	5	0.6' / 2.0'	OU2-SO-520S-1416		Medium	Light	Fine-coarse SAND, some gravel, trace silt	SW	2" spoon	PID=24.1
	7									
	7				Dense	brown				
16	9		0955							FID=9.9

TYPE OF DRILLING RIG:	2" well rig (rig 2) CME 45
METHOD OF ADVANCING BORING:	Drive & wash
METHOD OF SOIL SAMPLING:	Split spoons
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	*fill to 12'

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU2	BORING NO.:	SB-520S
PROJECT NO.:	N4236-0320	START DATE:	9/27/02
LOGGED BY:	J. Lambert	TRANSCRIBED BY: LAH	COMPLETION DATE: 9/27/02
DRILLED BY (Company/Driller):	ADT/Jim Philbin	MON. WELL NO.:	MW-520S
GRD. SURFACE ELEVATION:	13.3 Ft.	ELEVATION FROM: NGVD 1929	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
16										
	6	1.0' / 2.0'	OU2-SO-520S-1618		Medium	Light	Fine-coarse SAND, trace gravel	SW	2" spoon	PID=2.5
	8				Dense	Brown				
	11									
18	11		1005							FID=5.4
	6	0.8' / 2.0'	OU2-SO-520S-1820				Fine-medium SAND	SP	2" spoon	PID=34.7
	7									
	11									
20	6		1015							FID=20.7
	3	0.7' / 2.0'	OU2-SO-520S-2022				Fine-medium SAND	SP	2" spoon	PID=6.0
	7									
	8									
22	12		1025							FID=2.4
				EOB @ 22.5' bgs						

TYPE OF DRILLING RIG:	2" wellrig (rig 2) CME 45
METHOD OF ADVANCING BORING:	Drive & wash
METHOD OF SOIL SAMPLING:	Split spoons
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: SB-520S

TtNUS Form 0018

BORING LOG FOR:	Raymark/OU2/Phase I Groundwater		
PROJECT NO.:			
LOGGED BY:	Jeff MacManus	TRANSCRIBED BY:	MES
DRILLED BY (Company/Driller):	Alliance/ Ron Ball		
GRD. SURFACE ELEVATION:	12.04	ELEVATION FROM:	NGVD 1929

BORING NO.:	SB-212
START DATE:	09/25/97
COMPLETION: DATE:	09/26/97
MON. WELL NO.:	MW-212 B+S
CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6" (ppm) Screen	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1	6.1 5.8	3'.6"/ 3'.6"	S-1 1148	6'		Dark Brown	Organics, SAND, dry	SW	Dry	
2	5.5 6.8			3.0'		Brown	GRAVEL, poorly graded, dry	GP	Dry	
3	3.4 9.2						↓			
4	14.6 7.2		S-2				↓			
5		1'8"/ 3'.0"	1159			Brown	Gravelly, SAND	SW	Moist	
6	18.1									
7	8.6 4.3	4.6/10	S-3 1320			Brown	Med. SAND, with stones	SW	Brown, moist / wet	
8	22.7						↓			
9	4.6						↓			
10	68.2					Red Brown	Coarse SAND with Gravel	SW	Moist / wet Reddish Brown	
11	70.7						↓			
12	48						↓			
13	87						↓			
14	48					Red Brown	Medium SAND	SP	Moist / wet Rdddish Brown	
15	33									
16	132									

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" and 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate and spin
METHOD OF ROCK CORING:	4" vibrate and spin and wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark/OU2/Phase I Groundwater		BORING NO.: SB-212
PROJECT NO.:			START DATE: 09/25/97
LOGGED BY:	Jeff MacManus	TRANSCRIBED BY: MES	COMPLETION: DATE: 09/26/97
DRILLED BY (Company/Driller):	Alliance/ Ron Ball		MON. WELL NO.: MW-212 B+S
GRD. SURFACE ELEVATION:	12.04	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
16										
	12		S-4			Red				(JHS/PID)
17	11.4		1345	17'		Brown	Med SAND	SP	Wet	
	11.8									
18						Brown	Coarse sandy, GRAVEL	GW	Wet	
	5.6									
19	22.9									
	20.9									
20		8'/10'								
	23.9									
21	28.6									
	8.8									
22	17.0									
	17.0									
23	28.0									
24	25.9									
	40.2									
25	6.5									
	8.5									
26	26.5									
	1.9		S-5							
27	2.2		1420				Coarse SAND	SW		
	5.0									
28	9.0									
	9.1									
29	10.8									
	6.8									
30	11.0						Coarse sandy, GRAVEL	GW		0.8 (30' to 31.5)
	12.6									
31	12.9									
	10.1									
32	13.5					Tan	SILT, medium plastic	ML		

Lt. brown

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate + spin
METHOD OF ROCK CORING:	4" vibrate + spin + wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark/OU2/Phase I Groundwater		
PROJECT NO.:		BORING NO.:	SB-212
LOGGED BY:	Jeff MacManus	START DATE:	09/25/97
DRILLED BY (Company/Driller):	Alliance/ Ron Ball	TRANSCRIBED BY: MES	COMPLETION: DATE: 09/26/97
GRD. SURFACE ELEVATION:	12.04	ELEVATION FROM: NGVD 1929	MON. WELL NO.: MW-212 B+S
			CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
32										
	11.6		S5 (cont.)			Light				
SILT,	14.0					Brown	SILT, medium plasticity	ML	Wet	10.7(31.5to34)
	12.7									
34	21.0									
	31.3									
35	38.7			34'6"			Fine-medium SAND			
	25.0									
36	38.5					Brown		SW	Wet	
			S6							4.8(34.5'to36')
										9.7(36-38.5)
	20.2									
37	12.8					Brown	Medium SAND			
	34.9									
38	81.0							SP		
	48.0									
39	63.8									
	81.6									
40	70.8			40.5						12.7(38.5-41)
	82.3									
41	70.7					Brown	Coarse SAND	SP		
	83.5									
42	56.8									10.4(41-43.5)
	43.0			42.5						
43	54.7									
	132									
44	104					Brown	Fine SAND	SP		
	94.6			46						
45	28.0									43.7(43.5-46)
	26.0									
46	90.9									

TYPE OF DRILLING RIG:	Sonic		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash		
METHOD OF SOIL SAMPLING:	4" vibrate + spin		
METHOD OF ROCK CORING:	4" vibrate + spin + wash		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: SB-212	PAGE: 3 OF 6

BORING LOG FOR:	Raymark/OU2/Phase I Groundwater		
PROJECT NO.:		BORING NO.:	SB-212
LOGGED BY:	Jeff MacManus	START DATE:	09/25/97
DRILLED BY (Company/Driller):	Alliance/ Ron Ball	TRANSCRIBED BY: MES	COMPLETION: DATE: 09/26/97
GRD. SURFACE ELEVATION:	12.04	ELEVATION FROM: NGVD 1929	MON. WELL NO.: MW-212 B+S
			CHECKED BY:

DEPTH (FEET) 46	BLOWS PER 6" (ppm)	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
	7.8		S-7							
47	22.2	9.5/10				Brown	Fine SAND	SP		38.4(46'-48.5')
	36.3									
48	118/									
	111									27.8 (48.5'-51')
49	74.8									
	151									
50	80.8									
	111									17.1(51'-53.5'-56')
51	66.6			50.5'		Brown	Fine SAND, trace gravel	SP		
52	32.8			51.5'		Brown	Fine SAND	SP		
	58.7									
53	41.2									
	84.8									
54	23.0			53.5		Brown	Fine SAND	SP		
	77.2								Brown with iron stain (red)	28.3 (53.5'-56')
55	123									
	146									
56	77									
	21.9	5'/5'	S-8			Red/				11.1 (56'-59')
57	36					brown	Fine SAND			
	28.4									
58	51.3									
	62.7									
59	24.0									
	19.7			Top of		Red/	Fine sand and calcite (mottled). Friable compressed			
60	24.6			Bedrock		gray	Calcite with crystals of calcite consolidated rock frag.		Possibly calcite	
	4.1			60.0'						3.5 (60'-61')
61	2.0									

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate + spin
METHOD OF ROCK CORING:	4" vibrate + spin + wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark/OU2/Phase I Groundwater		BORING NO.: SB-212
PROJECT NO.:			START DATE: 09/25/97
LOGGED BY:	Jeff MacManus	TRANSCRIBED BY: MES	COMPLETION: DATE: 09/26/97
DRILLED BY (Company/Driller):	Alliance/ Ron Ball		MON. WELL NO.: MW-212 B+S
GRD. SURFACE ELEVATION:	12.04	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6" (ppm)	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
61										
62			S-9			Grey	SCHIST gray	Broken Rock		
63		1.5'/5'								
64										
65										
66										
67		3'/10'	S-10				Lost 1' of recovery weathered			
68										
69							SCHIST w/quartite intrusions-conglomerate with quartz, Quartz, pyrite			
70										
71										
72										
73										
74										
75										
76										

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate + spin
METHOD OF ROCK CORING:	4" vibrate + spin + wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark/OU2/Phase I Groundwater		BORING NO.: SB-212
PROJECT NO.:			START DATE: 09/25/97
LOGGED BY:	Jeff MacManus	TRANSCRIBED BY: MES	COMPLETION: DATE: 09/26/97
DRILLED BY (Company/Driller):	Alliance/ Ron Ball		MON. WELL NO.: MW-212 B+S
GRD. SURFACE ELEVATION:	12.04	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET) 76	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
77							Greenish broken schist, w/ quartzite intrusions	Broken Rock		
78										
79										
80										
81										
82										
83										
84										
85										
86										
									Water @ 33.1' 1828 hrs Depth to bottom of hole 85.5' 525 gallons of water used	

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate + spin
METHOD OF ROCK CORING:	4" vibrate + spin + wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SLE-101
PROJECT NO.:	N4106-0320	START DATE:	7/8/02 @ 1350
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/8/02 @ 1530
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION ± 2" Asphalt	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
1		1.6 / 2.0	OU6-SO-SLE-101-0002	Sand, some gravel		Light brown	Sand – Some Gravel (Poorly graded, mostly medium to coarse sand, fine and coarse gravel).	SP	Dry-moist, no PACM noted, asphalt noted		
2			7/8/02 @ 1550							0.0	0.0
3		1.8 / 2.0	OU6-SO-SLE-101-0204						Dry-moist, no PACM noted		
4			7/8/02 @ 1610							0.0	0.0
5		2.0 / 2.0	OU6-SO-SLE-101-0406	Sand			Sand – Trace Gravel – Trace Silt (Poorly graded, mostly fine to medium sand, fine and coarse gravel)		Dry-moist, no PACM noted, no man-made material noted		
6 (1)			7/8/02 @ 1630							0.0	0.0
				B.O.E.							

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring equipment – Group B	BORING NO.: SLE-101	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 6 ft bgs, sand with trace gravel, no man-made material noted

BORING LOG FOR:	Raymark OU6	BORING NO.:	SLE-102
PROJECT NO.:	N4106-0320	START DATE:	7/10/02 @ 1125
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/10/02 @ 1220
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							0.3' Stone and gravel (surface)			
1	NA	1.7 / 2.0	OU6-SO-SLE-102-0002	Sand		Light medium brown	Sand – Some Silt – Trace Gravel (Poorly graded, mostly f/m sand, fine and coarse gravel)	SP/SM	Dry-moist, no PACM noted, no man-made material noted	FID PID
2			7/10/02 @ 1145							0.2 0.0
3		1.6 / 2.0	OU6-SO-SLE-102-0204			Light medium brown speckled	Sand – Trace Silt – Trace Gravel (Poorly graded, mostly f/m sand, fine gravel)	SP	Moist-wet, no PACM noted, no man-made material noted, Shell fragments (marine)	
4 (1)			7/10/02 @ 1200							0.0 0.0
				B.O.E.						

TYPE OF DRILLING RIG:		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:		
METHOD OF SOIL SAMPLING:		
METHOD OF ROCK CORING:		
GROUNDWATER LEVELS:		
OTHER OBSERVATIONS:	BORING NO.: SLE-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4 ft bgs, clean sand, marine shell fragments noted, no man-made material noted, saturated.

BORING LOG FOR:	Raymark OU6	BORING NO.:	SLE-103
PROJECT NO.:	N4106-0320	START DATE:	7/8/02 @ 1350
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/8/02 @ 1530
DRILLED BY (Company/Driller):	ADT/Mike	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							6" Asphalt			
1		1.4 / 2.0	OU6-SO-SLE-103-0002 Duplicate @ 1440 Confirmation @ 1430 on 7/8/02	Fill Sand		Medium brown	Sand – Some Gravel (Well graded, mostly fine to coarse sand, fine and coarse gravel	SW	Dry-moist, no PACM noted, brick fragments ~2-3". Piece of metal	FID PID
2										0.0 0.0
3		1.6 / 2.0	OU6-SO-SLE-103-0204 7/8/02 @ 1450				Sand – Some Silt – Trace Gravel (Poorly graded, mostly fine to medium sand, trace coarse gravel)	SP/SM	Moist-wet, no PACM noted *FID background 3.5 ppm	212.3* 0.0
4										
5		1.9 / 2.0	OU6-SO-SLE-103-0406 7/8/02 @ 1510	~4.5' Sand			Sand – Some Silt – Trace Gravel (1.4' fine sand with silt, trace fine and coarse gravel)		Saturated, no PACM noted. Organic material, no man-made material	255 0.0
6 [2]						Medium dark brown	Sand – Some Gravel – Trace Organics (0.5' poorly graded, mostly coarse sand with coarse gravel	SP		
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Monitoring equipment – Group B	BORING NO.: SLE-103	PAGE: 1 OF 1

1. Field duplicate collected from 0-2 ft @ 1440. Confirmation sample collected from 0-2 ft @ 1430
2. Bottom of Exploration (B.O.E.) @ 6.0 ft, GW encountered, natural marsh material noted, no man-made material noted

BORING LOG FOR:	Raymark OU6		BORING NO.: VPA95-101
PROJECT NO.:	N4106-0320		START DATE: 7/25/02 @ 0918
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/25/02 @ 1040
DRILLED BY (Company/Driller):	ADT/A. Hurst		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass and Topsoil			
1		1.5 / 2.0	OU6-SO-VPA95-101-0002	Sand	Medium	Brown	Sand – Trace silt (poorly graded, mostly fine sand, trace medium and coarse sand)	SP	Dry, fill material noted – pieces of glass.	
2			7/25/02 @ 0930	Silt			Silty sand – Trace gravel (mostly silt and fine sand, trace coarse sand)	SM		PID = 0.0 FID = 0.0
3		1.8 / 2.0	OU6-SO-VPA95-101-0204	F. Sand			Sand – Trace gravel (poorly graded, mostly fine/medium sand, trace coarse sand)	SP		
4			7/25/02 @ 0950							PID = 0.0 FID = 0.0
5		2.0 / 2.0	OU6-SO-VPA95-101-0406	Organic silt	Loose	Gray	0.6 ft. similar to previous. 0.85 ft. Organic silt – Mostly silt and organics, trace f. sand.	OL/OH	Moist, pieces of glass noted.	
6			7/25/02 @ 0955	F. Sand			0.55' – Sand – Poorly graded mostly fine sand.	SP		PID = 0.0 FID = 206
7		1.5 / 2.0	OU6-SO-VPA95-101-0608				Sand – Trace gravel – Trace silt (poorly graded, mostly fine to medium sand, trace coarse sand)		Moist, strong petroleum odor noted. Decreased w/depth.	PID = 236
8			7/25/02 @ 1010							PID = 12.6 FID = 135
9		1.4 / 2.0	OU6-SO-VPA95-101-0810	Organic			0.7 – Organic silt mostly silt and organics.	OL/OH	No man made materials present in sample, strong petroleum odor.	PID = 23.2 FID = 650
10 (1)			7/25/02 @ 1025	F. Sand			Sand. Mostly fine sand, w/trace m. to f. sand.	SP		PID = 898 FID = 1,200
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: E

Tetra Tech NUS, Inc.

BORING NO.: VPA95-101

1. Bottom of Exploration (B.O.E.) @ 10.0 ft. bgs, no man made material noted in last 4.0 ft. of exploration. There was a strong petroleum odor present.

BORING LOG FOR:	Raymark OU6			BORING NO.:	VPA95-102
PROJECT NO.:	N4106-0320			START DATE:	7/25/02 @ 1050
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/25/02 @ 1115
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Topsoil and Grass			
1		1.55 / 2.0	OU6-SO-VPA95-102-0002	Topsoil		Brown	0.5' – roots and topsoil.		Dry, no man material noted in sample	
2			7/25/02 @ 1100	Sand			SAND-TR GRAVEL (poorly graded sand, mostly m/ f sand, tr coarse sand)	SP		PID = 0.0 FID = 0.0
3		1.45 / 2.0	OU6-SO-VPA95-102-0204	Sand			Sand – some gravel – Trace silt (poorly graded, coarse/medium sand, trace fine sand)			
4 (1)			7/25/02 @ 1105	Some Gravel						PID = 0.0 FID = 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: VPA95-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft. bgs, no man made material noted in samples.

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	VPA95-103
LOGGED BY:	A. Roy	START DATE:	7/25/02 @ 1130
TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/25/02 @ 1145
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		CHECKED BY:	KJ 10/14/02
ELEVATION FROM:			

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass and Topsoil			
1		1.5 / 2.0	OU6-SO-VPA95-103-0002	Sand		Brown	Sand – Trace gravel – Trace silt (poorly graded, mostly F/M and, trace coarse sand)	SP	Dry, no man material noted in sample.	
2			7/25/02 @ 1130							PID = 0.0 FID = 0.0
3		1.4 / 2.0	OU6-SO-VPA95-103-0204				Sand – Trace gravel (poorly graded, mostly F/M sand, little coarse sand)			
4 (1)			7/25/02 @ 1140							PID = 0.0 FID = 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: E

Tetra Tech NUS, Inc.

BORING NO.: VPA95-103

1. Bottom of Exploration (B.O.E.) @ 4.0 ft. bgs, no man made material noted in samples.

BORING LOG FOR:	Raymark OU6		BORING NO.: VPA95-104
PROJECT NO.:	N4106-0320		START DATE: 8/14/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/14/02
DRILLED BY (Company/Driller):	ADT/A. Hurst		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Frgamites and Soil	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		No Recovery		?						
2										
3		No Recovery								
4										
5		1.0 / 2.0	OU6-SO-VPA95-104-0406 8/14/02 @ 1030	Silt		Dark Brown	Silt – mostly silt, trace f. sand and organics.	ML	Moist, no man made materials noted.	
6										PID = 0.0 FID = 530
7		1.9 / 2.0	OU6-SO-VPA95-104-0608 8/14/02 @	Sand some/ silt			Sand – some silt – trace gravel (poorly graded, mostly F/M sand, little coarse sand, organics)	SP/SM	Wet, no man made materials noted in sample, slight sulfide odor noted.	
8 (1)										PID = 18.4 FID = 28.6
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: A. FID: B

Tetra Tech NUS, Inc.

BORING NO.: VPA95-104

1. Bottom of Exploration (B.O.E.) @ 8.0 ft. bgs, no man made material noted in samples, soils appear to be natural.

BORING LOG FOR:	Raymark OU6			BORING NO.:	VPA95-105
PROJECT NO.:	N4106-0320			START DATE:	8/14/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/14/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Phrgamites and soil	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		No Recovery	No Sample		Very Loose					
2										PID = 0.0 FID = 0.0
3		0.65 / 2.0	OU6-SO-VPA95-104-0204 8/14/02 @ 1320	Sand some /silt	Very loose	Dark brown	Sand – Some silt (poorly graded, mostly F/M sand)	SP-SM	Moist, no man made materials noted in sample.	
4						↓		↓		PID = 0.0 FID = 0.0
5		1.8 / 2.0	OU6-SO-VPA95-104-0406 8/14/02 @ 1330	Organic Soil		↓	Organic silt (poorly graded, mostly F/M sand)	OL/OH	Moist, no man made materials noted.	
6						↓		↓		PID = 0.0 FID = 135
7		1.95 / 2.0	OU6-SO-VPA95-104-0608 8/14/02 @ 1340	Silt		↓	Silt – mostly silt, trace f. sand and organics.	ML	Wet, no man made materials noted.	
8 (2)						↓		↓		PID = 0.0 FID = 176
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A FID – B	BORING NO.: VPA95-105	PAGE: 1 OF 1

1. Co-located dup. collected at 1325, PCBs, Pb/Cu – DP13, Asbestos– DP14.
2. Bottom of Exploration (B.O.E.) @ 8.0 ft. bgs, no man made materials noted in sample soils appear natural.

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	VPA95-106
LOGGED BY:	A. Roy	START DATE:	8/14/02
TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/14/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = □□□ü□□□□
1		0.6 / 2.0	OU6-SO-VPA95-106-0002 8/14/02 @ 1500	Silty Sand		Dark brown	Silty sand, mostly f. sand and silt, trace organics & gravel.	SM	Dry, PACM material noted, possible tile.	□□□□□□□
2										PID = 0.0 FID = 0.0
3		1.7 / 2.0	OU6-SO-VPA95-106-0204 8/14/02 @ 1520	Silt			Silt – mostly silt – trace f. sand and organics.	ML	Dry, PACM noted in sample.	
4										PID = 0.0 FID = 38.3
5		1.25 / 2.0	OU6-SO-VPA95-106-0406 8/14/02						Moist, soils appear to be natural.	
6 (1)				Organic Silt			Organic silt – mostly silt & organics	OL/OH		PID = 232 FID = 29.5
				B.O.E.						

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: A FID: B

Tetra Tech NUS, Inc.

BORING NO.: VPA95-106

1. Bottom of Exploration (B.O.E.) @ 6.0 ft. bgs, soils appear to be natural. No man made material noted.

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	VPA95-107
LOGGED BY:	A. Roy	START DATE:	8/14/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/14/02
GRD. SURFACE ELEVATION:		MON. WELL NO.:	NA
ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Soil and Phragmites			
1		1.1 / 2.0	OU6-SO-VPA95-107-0002	Organic silt			Organic silt- Mostly silt and organics, trace m. to f. sand	OL/OH	Moist, no man made material noted in sample.	
2			8/14/02 @ 1615							PID = 0.0 FID = 0.0
3			OU6-SO-VPA95-107-0204							
4 (1)			8/14/02 @ 1620							PID = 0.0 FID = Not
				B.O.E.						functioning

TYPE OF DRILLING RIG:	Truck Mount Geo-Probe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group:

Tetra Tech NUS, Inc.

BORING NO.: VPA95-107

PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft. bgs, No man made material noted, soils appear to be natural.

BORING LOG FOR:	Raymark OU6			BORING NO.:	VPA95-201
PROJECT NO.:	N4106-0320			START DATE:	5/29/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/29/03
DRILLED BY (Company/Driller):	J. Lambert, P. Chavva			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET) 0	BLOWS PER 6" N/A	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		N/A	OU6-SO-VPA95-201-0002 1220			Light Brown	Fine-medium SAND, trace silt, some organics (roots)	SW		PID = 0.0
1										
2										FID = 0.0
			OU6-SO-VPA95-201-0204 1235			Light Brown	Fine-medium SAND, trace silt, trace fine gravel	SW	Root at 2.5'	
3										
						Light	Fine-medium SAND	SW	Piece of plastic at 3'	
4				Refusal @ 3.6'		Brown				

TYPE OF DRILLING RIG:	(hand auger)			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	"			
METHOD OF SOIL SAMPLING:	"			
METHOD OF ROCK CORING:	N/A			
GROUNDWATER LEVELS:	N/A			
OTHER OBSERVATIONS:		BORING NO.:	VPA95-201	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6			BORING NO.:	VPA95-202
PROJECT NO.:	N4106-0320			START DATE:	5/29/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/29/03
DRILLED BY (Company/Driller):	J. Lambert, P. Chavva			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET) 0	BLOWS PER 6" N/A	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		N/A	OU6-SO-VPA95-202-0002 1300			Light Brown	Fine-medium SAND, some silt, trace fine gravel	SP	Slightly moist	PID = 0.0
1										FID = 0.0
									Coarse gravel at 1'	
2										
			OU6-SO-VPA95-202-0203 1310			Light Brown	Fine-medium SAND, trace silt	SP		
3										
				EOB @ 3' Refusal						
							(1^{st} attempt – refusal at 1')			

TYPE OF DRILLING RIG:	(hand auger)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	"		
METHOD OF SOIL SAMPLING:	"		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:		BORING NO.: VPA95-202	PAGE: 1 OF 1

TtNUS Form 0018

CT RIGHT OF WAY

BORING LOG FOR:	Raymark OU6	BORING NO.:	FB189-201
PROJECT NO.:	N4106-0320	START DATE:	5/13/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL

TRANSCRIBED BY: LJD

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.7 / 2.0	OU6-SO-FB189-201-0002 0820			Gray	0 – 0.5 - Asphalt and road base 0.5 – 1.0 - Road base medium-coarse SAND, some gravel		Moist	0.0 ppm FID
2						Tan	1.0 – 1.7 - Well graded medium SAND, some gravel	SW		
		1.6 / 2.0	OU6-SO-FB189-201-0204 0825				Well graded medium SAND, some gravel		Moist	0.0 ppm PID
4										
		1.7 / 2.0	OU6-SO-FB189-201-0406 0830				Medium well graded SAND with some gravel (1")		Moist	0.0 ppm PID
6										
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: FB189-201	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6	BORING NO.:	FB189-202
PROJECT NO.:	N4106-0320	START DATE:	5/13/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL

TRANSCRIBED BY: LJD

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.4 / 2.0	OU6-SO-FB189-202-0002 0905			Gray	0 – 0.5 - Asphalt and base gravel 0.5 – 1.0 - Well graded medium SAND	SW	Slightly Moist	0.0 PID
2						Tan	1.0 – 1.4 – GRAVEL, some sand	GP		
		1.4 / 2.0	OU6-SO-FB189-202-0204 0910				Well graded SAND, some gravel	GW		
4										
		1.5 / 2.0	OU6-SO-FB189-202-0406 0915				Well graded SAND, with 1-1.5" gravel, quartz	GM		0.0 PID
6						Brown				
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.:	FB189-202	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6			BORING NO.:	FB189-203
PROJECT NO.:	N4106-0320			START DATE:	5/13/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-FB189-203-0002 0935			Gray-Black	0 – 0.5 - Asphalt and base material removed		Slightly moist	0.0 PID
2						Tan	0.5 – 1.5 - Poorly graded medium SAND, some gravel	SP		
		1.1 / 2.0	OU6-SO-FB189-203-0204 0940			↓	Poorly graded medium SAND, 3/8" gravel	↓		0.0 PID
4						↓		↓		
				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: FB189-203	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6	BORING NO.:	FB189-204
PROJECT NO.:	N4106-0320	START DATE:	5/13/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.4 / 2.0	OU6-SO-FB189-204-0002 1000	Fill			0 – 0.4 - Asphalt and base removed 0.4 – 0.6 - Poorly graded medium SAND 0.6 – 0.9 - Schist and GRAVEL 0.9 – 1.4 - Medium poorly graded SAND	SP	Slightly moist	0.0 PID
2										
		1.6 / 2.0	OU6-SO-FB189-204-0204 1010				0 – 1.4 - Medium poorly graded SAND 1.4 – 1.6 - Asphalt ~2" piece in nose			
4										
		1.5 / 2.0	OU6-SO-FB189-204-0406 1015				Poorly graded medium SAND with some gravel		Moist	0.0 PID
6										
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A, location in front of building	BORING NO.: FB189-204	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6			BORING NO.:	FB189-205
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-FB189-205-0002 1524	Fill	Loose	Dark Brown	Removed 5" Asphalt 5-24"-Poorly graded SAND, some silt, coarse gravel, trace glass	SP	Moist	
2										
			OU6-SO-FB189-205-0204 1535				Poorly graded SAND, silty sand with trace clay and coarse gravel	SP-SM	Reworked? Native? Moist	
4										
			OU6-SO-FB189-205-0406 1550	Native Material			Poorly graded SAND with some gravel and silt	SP	Native material Moist	
6										
			OU6-SO-FB189-205-0608 1605		Medium	Light Brown	Silty SAND, with some rounded gravel	SM	Saturated	
8										
				EOB @ 8' bgs						
							NATIVE MATERIAL @ 4' – 8'			

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: D, Took full suite samples	BORING NO.:	FB189-205	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6			BORING NO.:	FB189-206
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-FB189-206-0002		Loose	Dark brown	Removed 6" of asphalt		Fill	
						Black	6-12" - medium SANDY fill			0.0
				Fill	↓	↓	12-18" - GRAVEL		Native	
2			1655				18-24" - Silty CLAY some organics	ML		0.0
			OU6-SO-FB189-206-0204	Native	Medium	Black	Silty CLAY, moist, some silty sand, organic odor	ML-SM	Native Moist	0.0
4			1705		↓	↓		↓		0.0
				EOB @ 4' bgs			NATIVE MATERIAL FROM 1.5 – 4'			

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	D.P.T.
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	

BORING NO.: FB189-206

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FB191-201
PROJECT NO.:	N4106-0320	START DATE:	6/4/03
LOGGED BY:	M. Handwork/D. Hartigan	TRANSCRIBED BY: LAH	COMPLETION DATE: 6/5/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt driveway			
		1.1 / 2.0	OU6-SO-FB191-201-0002 0915	Fill		Light Brown	Fine to medium SAND, GRAVEL, well-graded with fill-red brick	GW	moist	0.0 PID
2										0.0 FID
		1.0 / 2.0	OU6-SO-FB191-201-0204 0925				Fine to medium SAND, trace silt, brick Possible asbestos fibers, gasket material	SP		
4										
		0.3 / 2.0	OU6-SO-FB191-201-0406 0935							
6										
		0.8 / 2.0	OU6-SO-FB191-201-0608 0945				Medium to coarse SAND, some silt, fill material		Water table at 6-8'	
8						Light gray			Saturated	
		0.6 / 2.0	OU6-SO-FB191-201-0810 1000				Well graded SAND, black fill material	SW	Water in sample	
10										
			OU6-SO-FB191-201-1012 **No Recovery**				Start 6/5/03 at 1012 interval No recovery, push to 1214 interval – discrete interval sampler			
12										
		0.5 / 2.0	OU6-SO-FB191-201-1214 1715			Brown	Well graded coarse SAND, trace fine gravel	SP		
14										
				EOB @ 14' bgs			no odor, appears natural			
							MS/MSD taken from 0204 Dup. taken @ 0920 from 0002			

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	D.P.T.
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: FB191-201

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB191-202
PROJECT NO.:	N4106-0320			START DATE:	6/5/03
LOGGED BY:	M. Handwork, D. Hardigan	TRANSCRIBED BY:	LJD	COMPLETION DATE:	6/5/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt surface, drive way			
		1.0 / 2.0	OU6-SO-FB191-202-0002 1610			Light Brown	Fine-medium SAND with gravel up to 1"	SW	Dry	0.0 PID
2										0.0 FID
		1.4 / 2.0	OU6-SO-FB191-202-0204 1620			Light brown Dark gray	Silty fine SAND, trace coarse gravel (angular), trace organics	SM		
4										
		1.6 / 2.0	OU6-SO-FB191-202-0406 1630			Brown	Silty SAND, organics		Moist	
6						Dark Brown	SILT and organics	OL		
				EOB @ 6' bgs						
							No odor, appears natural, no man made material			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: FB191-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBEL-102
PROJECT NO.:	4106-0320			START DATE:	8/13/02 @ 1000
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	8/13/02 @ 1020
DRILLED BY (Company/Driller):	A.D.T./Artie			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		2.0 / 2.0	OU6-SO-FBEL-102-0002 8/13/02 1005	Silty Sand	Loose	Brown	∂ 0.5' Grass, roots, topsoil Poorly graded fine – medium sand with silt, trace fine gravel	SM	Dry, moist trace organics. No PACM, MMM or odor	PID = 0.0 FID = 0.0
2										
		2.0 / 2.0	OU6-SO-FBEL-102-0204 8/13/02 1015							
4										PID = 0.0 FID = 0.0
				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe Rig	Notes:	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.	PACM = Potential Asbestos containing material	
METHOD OF SOIL SAMPLING:	Grab using Macro-Core	MMM = Man-made material	
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (B) PID (A). No PACM, MMM visible, silty sand, possible native material.	BORING NO.: FBEL-102	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FBEL-105
PROJECT NO.:	4106-0320	START DATE:	8/13/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/13/02
DRILLED BY (Company/Driller):	A.D.T./S. Przybylski	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.7 / 2.0	OU6-SO-FBEL-105-0002 8/13/02 1320	Silty Sand		Light Brown	Grass and Topsoil Silty sand – mostly fine sand and silt, trace medium to coarse sand and gravel	SM	Dry, No man-made material. Soil does not appear natural	PID = 0.0 FID = 0.0
2						Olive Green				
		1.55 / 2.0	OU6-SO-FBEL-105-0204 8/13/02 1330							PID = 0.0 FID = 0.0
4										
		1.5 / 2.0	OU6-SO-FBEL-105-0406 8/13/02 1340	Sand with Silt			Poorly graded sand with silt – mostly fine to medium sand with some coarse sand and silt, trace gravel	SP/SM	Moist, no man-made material noted	PID = 0.0 FID = 0.0
6										
		0.8 / 2.0	OU6-SO-FBEL-105-0608 8/13/02 1355	⊆						PID = 0.0 FID = 0.0
8										
		1.0 / 2.0	OU6-SO-FBEL-105-0810 8/13/02 1405	Silty Sand					Wet, no man-made material noted, soils appear to be natural	
10							Silty sand – mostly fine sand and silt, trace medium to coarse sand and gravel			PID = 0.0 FID = 0.0
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D; No man-made material noted, soils appear to be of natural origin.	BORING NO.: FBEL-105	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FBEL-107
PROJECT NO.:	4106-0320	START DATE:	8/13/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/13/02
DRILLED BY (Company/Driller):	A.D.T.	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-FBEL-107-0002 8/13/02 1615	Silty Sand		Light Brown	Silty Sand – Mostly fine sand and silt with some medium to coarse sand, trace gravel	SM	Dry, No man-made material noted in sample	PID = 0.0 FID = 0.0
2										
		1.65 / 2.0	OU6-SO-FBEL-107-0204 8/13/02 1630						Dry, no man-made material noted in sample	PID = 0.0 FID = 17.1
4				Silt		Dark Brown	Silt – mostly silt, trace organics	ML		
		1.8 / 2.0	OU6-SO-FBEL-107-0406 8/13/02 1640						Dry, no man-made material noted	PID = 0.0 FID = 0.0
6				Sand		Brown	Poorly graded sand – mostly medium to fine sand with some coarse sand	SP		
		1.0 / 2.0	OU6-SO-FBEL-107-0608 8/13/02 1615						Moist, no man-made material noted in sample	PID = 0.0 FID = 0.0
8										
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D; no man-made material in samples, soils appear to be natural.	BORING NO.: FBEL-107	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBROW-101
PROJECT NO.:	N4106-0320			START DATE:	7/30/02 @ 1510
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/30/02 @
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							0.3' Topsoil Grass (surface)			
1	S-1	1.7 / 2.0	OU6-SO-FBROW-101-0002	Silty Sand	Loose	Brown	Sand – some silt – trace gravel (poorly graded, mostly fine to medium sand, trace organics)	SM	Dry, organics, roots, no PACM, rock fragments, brick fragments	FID PID
2	@ 1520		DP08 @ 1530 7/30/02 @ 1520							0.0 0.0
3	S-2	1.5 / 2.0	OU6-SO-FBROW-101-0204	Fill		Light Brown			Dry-moist, rock fragments, brick fragments	
4	@ 1540		7/30/02 @ 1540							0.0 0.0
5	S-3	1.1 / 2.0	OU6-SO-FBROW-101-0406		Medium Dense	Brown	Sand – some silt – trace gravel , (poorly graded fine to medium sand, fine gravel)		Moist, tile or pipe fragments, no PACM	
6	@ 1545		7/30/02 @ 1545							0.0 0.0
7	S-4	1.2 / 2.0	OU6-SO-FBROW-101-0608	Gravelly sand			Sand – little gravel – trace silt (poorly graded, medium sand, fine and coarse gravel)	SP	Moist-wet, organic roots, no PACM	
8	@ 1555		7/30/02 @ 1555							0.0 0.0
9	S-5	0.2 / 2.0	OU6-SO-FBROW-101-0810		Loose	Dark Brown	Sand – little gravel – trace silt (poorly graded, medium sand, fine and coarse gravel)		Moist-wet, no PACM, trace organics	
10 (1)	@ 1610		7/30/02 @ 1610							0.0 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.:	FBROW-101	PAGE: 1 OF 1

1. Bottom of Exploration @ 10.0 ft bgs, clean gravelly sand, possible native material

BORING LOG FOR:	Raymark OU6		BORING NO.: FBROW-102
PROJECT NO.:	N4106-0320		START DATE: 7/31/02 @ 0840
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/31/02 @ 0940
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							0.4' Topsoil Grass, roots (surface)			
	S-1	1.8 / 2.0	OU6-SO-FBROW-102-0002	Gravelly sand (fill)	Loose	Brown	Sand – little gravel – trace silt (well graded fine to coarse sand, fine and coarse gravel)	SW	Dry-moist, no PACM, no odor, trace organics	FID PID
2	@ 0900		7/31/02 @ 0900							0.0 0.0
	S-2	1.2 / 2.0	OU6-SO-FBROW-102-0204							
4	@ 0905		7/31/02 @ 0905							0.0 0.0
	S-3	1.2 / 2.0	OU6-SO-FBROW-102-0406			Medium Brown	Well graded, fine to coarse sand, with fine and coarse gravel		Dry-moist, no PACM, no odor	
6	@ 0910		7/31/02 @ 0910							0.0 0.0
	S-4	1.1 / 2.0	OU6-SO-FBROW-102-0608						Dry-moist, no PACM, no odor	
8	@ 0915		7/31/02 @ 0915							0.0 0.0
	S-5	1.5 / 2.0	OU6-SO-FBROW-102-0810	Concrete 0.2'					Moist-wet, no PACM, slight odor, concrete fragments, and rock fragments	
10	@ 0920		7/31/02 @ 0920		Medium Dense		9.0' concrete fragments, ± 0.2' thick. Poorly graded fine to coarse sand, fine and coarse gravel			0.0 0.0
	S-6	1.8 / 2.0	OU6-SO-FBROW-102-1012	Sand			Sand – little silt – trace gravel (poorly graded, fine to medium sand, fine gravel	SP	Moist-wet, no PACM, rock fragments	15.0
12 (1)	@ 0930		7/31/02 @ 0930							240 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	FID (A) PID (A)

Tetra Tech NUS, Inc.

BORING NO.: FBROW-102

1. Bottom of Exploration @ 12.0 ft bgs, clean sand, wet, possible native material

BORING LOG FOR:	Raymark OU6		BORING NO.: FBROW-103
PROJECT NO.:	N4106-0320		START DATE: 7/31/02 @ 1015
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/31/02 @ 1115
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
	S-1	1.5 / 2.0	OU6-SO-FBROW-103-0002	Sand	Loose	Brown	Sand – trace silt – trace gravel (poorly graded F/M sand, F & C gravel)	SP	Dry, no PACM, no odor	FID PID
2	@ 1030		DP10 @ 1035 7/31/02 @ 1035							0.0 0.0
	S-2	1.8 / 2.0	OU6-SO-FBROW-103-0204 (2)		Medium Dense				Dry-moist, slag pieces @ 3.6', asphalt pieces, no PACM, no odor	
4	@ 1040		7/31/02 @ 1040							0.0 0.0
	S-3	1.6 / 2.0	OU6-SO-FBROW-103-0406						Dry-moist, no PACM, no man-made material, slight odor	
6	@ 1050		7/31/02 @ 1050	Silty Sand			Increasing fine sand and silts, trace organics	SM		11.0 0.0
	S-4	1.7 / 2.0	OU6-SO-FBROW-103-0608				Sand – some silt – trace gravel (poorly graded, F/M sand, fine gravel)		Moist, no PACM, no odor	
8	@ 1055		7/31/02 @ 1055							15.0 0.0
	S-5	0.9 / 2.0	OU6-SO-FBROW-103-0810						Moist-wet, no odor, no PACM	
10 (1)	@ 1100		7/31/02 @ 1100							0.0 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	FID (A) PID (A)

BORING NO.: FBROW-103

Tetra Tech NUS, Inc.

1. Bottom of Exploration @ 10.0 ft bgs, silty fine sand, trace gravel encountered, possible native material
2. Confirmation sample collected from 2 to 4 ft bgs

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBROW-104
PROJECT NO.:	N4106-0320			START DATE:	7/31/02 @ 1130
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/31/02 @ 1230
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							0.4' Topsoil, grass, roots (surface)			
	S-1	1.7 / 2.0	OU6-SO-FBROW-104-0002	Gravelly Sand	Loose	Brown	Sand – little silt – trace gravel (poorly graded F/M sand, fine and coarse gravel)	SP	Dry-moist, no PACM, no odor	FID PID
2	@ 1200		7/31/02 @ 1200		↓	↓		↓		0.0 0.0
	S-2	1.6 / 2.0	OU6-SO-FBROW-104-0204	Silty Sand (organics)	Medium Dense	Medium Brown	Sand – some silt – trace gravel (poorly graded F/M sand, fine gravel, trace organics	SM	Moist, trace organics, no PACM	
4	@ 1210		7/31/02 @ 1210	↓				↓		0.0 0.0
	S-3	1.9 / 2.0	OU6-SO-FBROW-104-0406	Organic silt			Organic silt – Mostly silt, poorly graded fine sand, organic material	OL	Moist, organic, meadow bottom, no PACM, sulfur odor	
6 (1)	@ 1215		7/31/02 @ 1215		↓	↓		↓		12.0 0.0

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.:	FBROW-104	PAGE: 1 OF 1

1. Bottom of Exploration @ 6.0 ft bgs, meadow/wetland bottom encountered, organics, fine sand and silt, possible native material

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBROW-105
PROJECT NO.:	N4106-0320			START DATE:	7/31/02 @ 1245
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/31/02 @ 1340
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0							0.4' Topsoil, grass, roots (surface)				
	S-1	1.7/2.0	OU6-SO-FBROW-105-0002	Gravelly Sand	Loose	Brown	Sand – little silt – trace gravel (poorly graded F/M sand, fine gravel)	SP	Dry-moist, no PACM, no odor		
2	@ 1255		7/31/02 @ 1255							0.0	0.0
	S-2	1.6/2.0	OU6-SO-FBROW-105-0204		Medium Dense				Dry-moist, no PACM, no odor		
4	@ 1300		7/31/02 @ 1300	Sand some silt			Sand – some silt – trace gravel (poorly graded fine sand, medium to coarse gravel	SM		0.0	0.0
	S-3	1.0/2.0	OU6-SO-FBROW-105-0406						Moist, no PACM, no odor		
6	@ 1310		7/31/02 @ 1310							0.0	0.0
	S-4	0.5/2.0	OU6-SO-FBROW-105-0608			Dark brown			Moist-wet, no PACM, no odor		
8	@ 1315		7/31/02 @ 1315		Loose					0.0	0.0
	S-5	0.4/2.0	OU6-SO-FBROW-105-0810			Gray	Sand – some silt – trace organics (poorly graded fine to medium sand)		Wet, no PACM, sulfur odor		
10 (1)	@ 1330		7/31/02 @ 1330	Silty Sand						15.0	0.0
				B.O.E.							

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.: FBROW-105	PAGE: 1 OF 1

1. Bottom of exploration @ 10.0 ft bgs, possible native material encountered, wet, sulfur odor, silty sand.

TtNUS Form 0018

CT RIGHT OF WAY

BORING LOG FOR:	Raymark OU6	BORING NO.:	FB189-201
PROJECT NO.:	N4106-0320	START DATE:	5/13/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL

TRANSCRIBED BY: LJD

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.7 / 2.0	OU6-SO-FB189-201-0002 0820			Gray	0 – 0.5 - Asphalt and road base 0.5 – 1.0 - Road base medium-coarse SAND, some gravel		Moist	0.0 ppm FID
2						Tan	1.0 – 1.7 - Well graded medium SAND, some gravel	SW		
		1.6 / 2.0	OU6-SO-FB189-201-0204 0825				Well graded medium SAND, some gravel		Moist	0.0 ppm PID
4										
		1.7 / 2.0	OU6-SO-FB189-201-0406 0830				Medium well graded SAND with some gravel (1")		Moist	0.0 ppm PID
6										
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: FB189-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FB189-202
PROJECT NO.:	N4106-0320	START DATE:	5/13/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL

TRANSCRIBED BY: LJD

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.4 / 2.0	OU6-SO-FB189-202-0002 0905			Gray	0 – 0.5 - Asphalt and base gravel 0.5 – 1.0 - Well graded medium SAND	SW	Slightly Moist	0.0 PID
2						Tan	1.0 – 1.4 – GRAVEL, some sand	GP		
		1.4 / 2.0	OU6-SO-FB189-202-0204 0910				Well graded SAND, some gravel	GW		
4										
		1.5 / 2.0	OU6-SO-FB189-202-0406 0915				Well graded SAND, with 1-1.5" gravel, quartz	GM		0.0 PID
6						Brown				
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.:	FB189-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB189-203
PROJECT NO.:	N4106-0320			START DATE:	5/13/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-FB189-203-0002 0935			Gray-Black	0 – 0.5 - Asphalt and base material removed		Slightly moist	0.0 PID
2						Tan	0.5 – 1.5 - Poorly graded medium SAND, some gravel	SP		
		1.1 / 2.0	OU6-SO-FB189-203-0204 0940			↓	Poorly graded medium SAND, 3/8" gravel	↓		0.0 PID
4						↓		↓		
				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: FB189-203	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FB189-204
PROJECT NO.:	N4106-0320	START DATE:	5/13/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.4 / 2.0	OU6-SO-FB189-204-0002 1000	Fill			0 – 0.4 - Asphalt and base removed 0.4 – 0.6 - Poorly graded medium SAND 0.6 – 0.9 - Schist and GRAVEL 0.9 – 1.4 - Medium poorly graded SAND	SP	Slightly moist	0.0 PID
2										
		1.6 / 2.0	OU6-SO-FB189-204-0204 1010				0 – 1.4 - Medium poorly graded SAND 1.4 – 1.6 - Asphalt ~2" piece in nose			
4										
		1.5 / 2.0	OU6-SO-FB189-204-0406 1015				Poorly graded medium SAND with some gravel		Moist	0.0 PID
6										
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A, location in front of building	BORING NO.: FB189-204	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB189-205
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-FB189-205-0002 1524	Fill	Loose	Dark Brown	Removed 5" Asphalt 5-24"-Poorly graded SAND, some silt, coarse gravel, trace glass	SP	Moist	
2										
			OU6-SO-FB189-205-0204 1535				Poorly graded SAND, silty sand with trace clay and coarse gravel	SP-SM	Reworked? Native? Moist	
4										
			OU6-SO-FB189-205-0406 1550	Native Material			Poorly graded SAND with some gravel and silt	SP	Native material Moist	
6										
			OU6-SO-FB189-205-0608 1605		Medium	Light Brown	Silty SAND, with some rounded gravel	SM	Saturated	
8										
				EOB @ 8' bgs						
							NATIVE MATERIAL @ 4' – 8'			

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: D, Took full suite samples	BORING NO.:	FB189-205	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB189-206
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-FB189-206-0002		Loose	Dark brown	Removed 6" of asphalt		Fill	
						Black	6-12" - medium SANDY fill			0.0
				Fill	↓	↓	12-18" - GRAVEL		Native	
2			1655				18-24" - Silty CLAY some organics	ML		0.0
			OU6-SO-FB189-206-0204	Native	Medium	Black	Silty CLAY, moist, some silty sand, organic odor	ML-SM	Native Moist	0.0
4			1705		↓	↓		↓		0.0
				EOB @ 4' bgs			NATIVE MATERIAL FROM 1.5 – 4'			

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	D.P.T.
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	

BORING NO.: FB189-206

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FB191-201
PROJECT NO.:	N4106-0320	START DATE:	6/4/03
LOGGED BY:	M. Handwork/D. Hartigan	TRANSCRIBED BY: LAH	COMPLETION DATE: 6/5/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt driveway			
		1.1 / 2.0	OU6-SO-FB191-201-0002 0915	Fill		Light Brown	Fine to medium SAND, GRAVEL, well-graded with fill-red brick	GW	moist	0.0 PID
2										0.0 FID
		1.0 / 2.0	OU6-SO-FB191-201-0204 0925				Fine to medium SAND, trace silt, brick Possible asbestos fibers, gasket material	SP		
4										
		0.3 / 2.0	OU6-SO-FB191-201-0406 0935							
6										
		0.8 / 2.0	OU6-SO-FB191-201-0608 0945				Medium to coarse SAND, some silt, fill material		Water table at 6-8'	
8						Light gray			Saturated	
		0.6 / 2.0	OU6-SO-FB191-201-0810 1000				Well graded SAND, black fill material	SW	Water in sample	
10										
			OU6-SO-FB191-201-1012 **No Recovery**				Start 6/5/03 at 1012 interval No recovery, push to 1214 interval – discrete interval sampler			
12										
		0.5 / 2.0	OU6-SO-FB191-201-1214 1715			Brown	Well graded coarse SAND, trace fine gravel	SP		
14										
				EOB @ 14' bgs			no odor, appears natural			
							MS/MSD taken from 0204 Dup. taken @ 0920 from 0002			

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	D.P.T.
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: FB191-201

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FB191-202
PROJECT NO.:	N4106-0320			START DATE:	6/5/03
LOGGED BY:	M. Handwork, D. Hardigan	TRANSCRIBED BY:	LJD	COMPLETION DATE:	6/5/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt surface, drive way			
		1.0 / 2.0	OU6-SO-FB191-202-0002 1610			Light Brown	Fine-medium SAND with gravel up to 1"	SW	Dry	0.0 PID
2										0.0 FID
		1.4 / 2.0	OU6-SO-FB191-202-0204 1620			Light brown Dark gray	Silty fine SAND, trace coarse gravel (angular), trace organics	SM		
4										
		1.6 / 2.0	OU6-SO-FB191-202-0406 1630			Brown	Silty SAND, organics		Moist	
6						Dark Brown	SILT and organics	OL		
				EOB @ 6' bgs						
							No odor, appears natural, no man made material			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: FB191-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBEL-102
PROJECT NO.:	4106-0320			START DATE:	8/13/02 @ 1000
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	8/13/02 @ 1020
DRILLED BY (Company/Driller):	A.D.T./Artie			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		2.0 / 2.0	OU6-SO-FBEL-102-0002 8/13/02 1005	Silty Sand	Loose	Brown	∂ 0.5' Grass, roots, topsoil Poorly graded fine – medium sand with silt, trace fine gravel	SM	Dry, moist trace organics. No PACM, MMM or odor	PID = 0.0 FID = 0.0
2										
		2.0 / 2.0	OU6-SO-FBEL-102-0204 8/13/02 1015							
4										PID = 0.0 FID = 0.0
				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe Rig	Notes:	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.	PACM = Potential Asbestos containing material	
METHOD OF SOIL SAMPLING:	Grab using Macro-Core	MMM = Man-made material	
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (B) PID (A). No PACM, MMM visible, silty sand, possible native material.	BORING NO.: FBEL-102	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FBEL-105
PROJECT NO.:	4106-0320	START DATE:	8/13/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/13/02
DRILLED BY (Company/Driller):	A.D.T./S. Przybylski	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.7 / 2.0	OU6-SO-FBEL-105-0002 8/13/02 1320	Silty Sand		Light Brown	Grass and Topsoil Silty sand – mostly fine sand and silt, trace medium to coarse sand and gravel	SM	Dry, No man-made material. Soil does not appear natural	PID = 0.0 FID = 0.0
2						Olive Green				
		1.55 / 2.0	OU6-SO-FBEL-105-0204 8/13/02 1330							PID = 0.0 FID = 0.0
4										
		1.5 / 2.0	OU6-SO-FBEL-105-0406 8/13/02 1340	Sand with Silt			Poorly graded sand with silt – mostly fine to medium sand with some coarse sand and silt, trace gravel	SP/SM	Moist, no man-made material noted	PID = 0.0 FID = 0.0
6										
		0.8 / 2.0	OU6-SO-FBEL-105-0608 8/13/02 1355	⊆						PID = 0.0 FID = 0.0
8										
		1.0 / 2.0	OU6-SO-FBEL-105-0810 8/13/02 1405	Silty Sand					Wet, no man-made material noted, soils appear to be natural	
10							Silty sand – mostly fine sand and silt, trace medium to coarse sand and gravel			PID = 0.0 FID = 0.0
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D; No man-made material noted, soils appear to be of natural origin.	BORING NO.: FBEL-105	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	FBEL-107
PROJECT NO.:	4106-0320	START DATE:	8/13/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/13/02
DRILLED BY (Company/Driller):	A.D.T.	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-FBEL-107-0002 8/13/02 1615	Silty Sand		Light Brown	Silty Sand – Mostly fine sand and silt with some medium to coarse sand, trace gravel	SM	Dry, No man-made material noted in sample	PID = 0.0 FID = 0.0
2										
		1.65 / 2.0	OU6-SO-FBEL-107-0204 8/13/02 1630						Dry, no man-made material noted in sample	PID = 0.0 FID = 17.1
4				Silt		Dark Brown	Silt – mostly silt, trace organics	ML		
		1.8 / 2.0	OU6-SO-FBEL-107-0406 8/13/02 1640						Dry, no man-made material noted	PID = 0.0 FID = 0.0
6				Sand		Brown	Poorly graded sand – mostly medium to fine sand with some coarse sand	SP		
		1.0 / 2.0	OU6-SO-FBEL-107-0608 8/13/02 1615						Moist, no man-made material noted in sample	PID = 0.0 FID = 0.0
8										
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D; no man-made material in samples, soils appear to be natural.	BORING NO.: FBEL-107	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBROW-101
PROJECT NO.:	N4106-0320			START DATE:	7/30/02 @ 1510
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/30/02 @
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							0.3' Topsoil Grass (surface)			
1	S-1	1.7 / 2.0	OU6-SO-FBROW-101-0002	Silty Sand	Loose	Brown	Sand – some silt – trace gravel (poorly graded, mostly fine to medium sand, trace organics)	SM	Dry, organics, roots, no PACM, rock fragments, brick fragments	FID PID
2	@ 1520		DP08 @ 1530 7/30/02 @ 1520							0.0 0.0
3	S-2	1.5 / 2.0	OU6-SO-FBROW-101-0204	Fill		Light Brown			Dry-moist, rock fragments, brick fragments	
4	@ 1540		7/30/02 @ 1540							0.0 0.0
5	S-3	1.1 / 2.0	OU6-SO-FBROW-101-0406		Medium Dense	Brown	Sand – some silt – trace gravel , (poorly graded fine to medium sand, fine gravel)		Moist, tile or pipe fragments, no PACM	
6	@ 1545		7/30/02 @ 1545							0.0 0.0
7	S-4	1.2 / 2.0	OU6-SO-FBROW-101-0608	Gravelly sand			Sand – little gravel – trace silt (poorly graded, medium sand, fine and coarse gravel)	SP	Moist-wet, organic roots, no PACM	
8	@ 1555		7/30/02 @ 1555							0.0 0.0
9	S-5	0.2 / 2.0	OU6-SO-FBROW-101-0810		Loose	Dark Brown	Sand – little gravel – trace silt (poorly graded, medium sand, fine and coarse gravel)		Moist-wet, no PACM, trace organics	
10 (1)	@ 1610		7/30/02 @ 1610							0.0 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.:	FBROW-101	PAGE: 1 OF 1

1. Bottom of Exploration @ 10.0 ft bgs, clean gravelly sand, possible native material

BORING LOG FOR:	Raymark OU6		BORING NO.: FBROW-102
PROJECT NO.:	N4106-0320		START DATE: 7/31/02 @ 0840
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/31/02 @ 0940
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							0.4' Topsoil Grass, roots (surface)			
	S-1	1.8 / 2.0	OU6-SO-FBROW-102-0002	Gravelly sand (fill)	Loose	Brown	Sand – little gravel – trace silt (well graded fine to coarse sand, fine and coarse gravel)	SW	Dry-moist, no PACM, no odor, trace organics	FID PID
2	@ 0900		7/31/02 @ 0900							0.0 0.0
	S-2	1.2 / 2.0	OU6-SO-FBROW-102-0204							
4	@ 0905		7/31/02 @ 0905							0.0 0.0
	S-3	1.2 / 2.0	OU6-SO-FBROW-102-0406			Medium Brown	Well graded, fine to coarse sand, with fine and coarse gravel		Dry-moist, no PACM, no odor	
6	@ 0910		7/31/02 @ 0910							0.0 0.0
	S-4	1.1 / 2.0	OU6-SO-FBROW-102-0608						Dry-moist, no PACM, no odor	
8	@ 0915		7/31/02 @ 0915							0.0 0.0
	S-5	1.5 / 2.0	OU6-SO-FBROW-102-0810	Concrete 0.2'					Moist-wet, no PACM, slight odor, concrete fragments, and rock fragments	
10	@ 0920		7/31/02 @ 0920		Medium Dense		9.0' concrete fragments, ± 0.2' thick. Poorly graded fine to coarse sand, fine and coarse gravel			0.0 0.0
	S-6	1.8 / 2.0	OU6-SO-FBROW-102-1012	Sand			Sand – little silt – trace gravel (poorly graded, fine to medium sand, fine gravel	SP	Moist-wet, no PACM, rock fragments	15.0
12 (1)	@ 0930		7/31/02 @ 0930							240 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	FID (A) PID (A)

Tetra Tech NUS, Inc.

BORING NO.: FBROW-102

1. Bottom of Exploration @ 12.0 ft bgs, clean sand, wet, possible native material

BORING LOG FOR:	Raymark OU6		BORING NO.: FBROW-103
PROJECT NO.:	N4106-0320		START DATE: 7/31/02 @ 1015
LOGGED BY:	C. Rousseau	TRANSCRIBED BY: RAC	COMPLETION: DATE: 7/31/02 @ 1115
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
	S-1	1.5 / 2.0	OU6-SO-FBROW-103-0002	Sand	Loose	Brown	Sand – trace silt – trace gravel (poorly graded F/M sand, F & C gravel)	SP	Dry, no PACM, no odor	FID PID
2	@ 1030		DP10 @ 1035 7/31/02 @ 1035							0.0 0.0
	S-2	1.8 / 2.0	OU6-SO-FBROW-103-0204 (2)		Medium Dense				Dry-moist, slag pieces @ 3.6', asphalt pieces, no PACM, no odor	
4	@ 1040		7/31/02 @ 1040							0.0 0.0
	S-3	1.6 / 2.0	OU6-SO-FBROW-103-0406						Dry-moist, no PACM, no man-made material, slight odor	
6	@ 1050		7/31/02 @ 1050	Silty Sand			Increasing fine sand and silts, trace organics	SM		11.0 0.0
	S-4	1.7 / 2.0	OU6-SO-FBROW-103-0608				Sand – some silt – trace gravel (poorly graded, F/M sand, fine gravel)		Moist, no PACM, no odor	
8	@ 1055		7/31/02 @ 1055							15.0 0.0
	S-5	0.9 / 2.0	OU6-SO-FBROW-103-0810						Moist-wet, no odor, no PACM	
10 (1)	@ 1100		7/31/02 @ 1100							0.0 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	FID (A) PID (A)

BORING NO.: FBROW-103

Tetra Tech NUS, Inc.

1. Bottom of Exploration @ 10.0 ft bgs, silty fine sand, trace gravel encountered, possible native material
2. Confirmation sample collected from 2 to 4 ft bgs

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBROW-104
PROJECT NO.:	N4106-0320			START DATE:	7/31/02 @ 1130
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/31/02 @ 1230
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							0.4' Topsoil, grass, roots (surface)			
	S-1	1.7 / 2.0	OU6-SO-FBROW-104-0002	Gravelly Sand	Loose	Brown	Sand – little silt – trace gravel (poorly graded F/M sand, fine and coarse gravel)	SP	Dry-moist, no PACM, no odor	FID PID
2	@ 1200		7/31/02 @ 1200		↓	↓		↓		0.0 0.0
	S-2	1.6 / 2.0	OU6-SO-FBROW-104-0204	Silty Sand (organics)	Medium Dense	Medium Brown	Sand – some silt – trace gravel (poorly graded F/M sand, fine gravel, trace organics	SM	Moist, trace organics, no PACM	
4	@ 1210		7/31/02 @ 1210	↓				↓		0.0 0.0
	S-3	1.9 / 2.0	OU6-SO-FBROW-104-0406	Organic silt			Organic silt – Mostly silt, poorly graded fine sand, organic material	OL	Moist, organic, meadow bottom, no PACM, sulfur odor	
6 (1)	@ 1215		7/31/02 @ 1215		↓	↓		↓		12.0 0.0

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.:	FBROW-104	PAGE: 1 OF 1

1. Bottom of Exploration @ 6.0 ft bgs, meadow/wetland bottom encountered, organics, fine sand and silt, possible native material

BORING LOG FOR:	Raymark OU6			BORING NO.:	FBROW-105
PROJECT NO.:	N4106-0320			START DATE:	7/31/02 @ 1245
LOGGED BY:	C. Rousseau	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	7/31/02 @ 1340
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:	NA	ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0							0.4' Topsoil, grass, roots (surface)				
	S-1	1.7/2.0	OU6-SO-FBROW-105-0002	Gravelly Sand	Loose	Brown	Sand – little silt – trace gravel (poorly graded F/M sand, fine gravel)	SP	Dry-moist, no PACM, no odor		
2	@ 1255		7/31/02 @ 1255							0.0	0.0
	S-2	1.6/2.0	OU6-SO-FBROW-105-0204		Medium Dense				Dry-moist, no PACM, no odor		
4	@ 1300		7/31/02 @ 1300	Sand some silt			Sand – some silt – trace gravel (poorly graded fine sand, medium to coarse gravel	SM		0.0	0.0
	S-3	1.0/2.0	OU6-SO-FBROW-105-0406						Moist, no PACM, no odor		
6	@ 1310		7/31/02 @ 1310							0.0	0.0
	S-4	0.5/2.0	OU6-SO-FBROW-105-0608			Dark brown			Moist-wet, no PACM, no odor		
8	@ 1315		7/31/02 @ 1315		Loose					0.0	0.0
	S-5	0.4/2.0	OU6-SO-FBROW-105-0810			Gray	Sand – some silt – trace organics (poorly graded fine to medium sand)		Wet, no PACM, sulfur odor		
10 (1)	@ 1330		7/31/02 @ 1330	Silty Sand						15.0	0.0
				B.O.E.							

TYPE OF DRILLING RIG:	Truck mounted geoprobe rig		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.: FBROW-105	PAGE: 1 OF 1

1. Bottom of exploration @ 10.0 ft bgs, possible native material encountered, wet, sulfur odor, silty sand.

TtNUS Form 0018

304 EAST MAIN STREET

BORING LOG FOR:	Raymark OU6		BORING NO.: ES304-101
PROJECT NO.:	N4106-0320		START DATE: 7/29/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/29/02
DRILLED BY (Company/Driller):	ADT/A. Hurst		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt surface			
1		1.6 / 2.0	OU6-SO-ES304-101-0002 7/30/02 @ 1000	Asphalt / Sand w/silt		Brown	Well graded sand, mostly fine to med. sand w/some coarse sand, trace gravel & silt.	SW	Dry, pieces of slag and glass noted in sample.	PID = 0.0 FID = 1.3
2							Well graded sand w/silt, similar to 0-1 ft. but w/some silt.	SW/SM		
3		1.0 / 2.0	OU6-SO-ES304-101-0204 7/30/02 @ 1005	Sand			Poorly graded sand, mostly med. to fine sand w/less coarse sand, trace gravel and silt	SP	Moist, slag noted in bottom of sample.	PID = 0.0 FID = 0.0
4										
5		0.95 / 2.0	OU6-SO-ES304-101-0406 7/30/02 @ 1015						Moist, slag and glass noted in sample.	PID = 0.0 FID = 0.0
6										
7		1.7 / 2.0	OU6-SO-ES304-101-0608 7/30/02 @ 1025						Slag and glass noted in top of sample.	PID = 0.0 FID = 0.0
8				Silt		Black	Silt, mostly silt w/trace fine sand and organic material.	ML		
9		0.75 / 2.0	OU6-SO-ES304-101-0810 7/30/02 @ 1040	Sand w/silt		Brown	Poorly graded sand and silt.	SP/SM	Wet, trace man made materials in top of sample.	PID = 0.0 FID = 116
10 (1)							Mostly fine to med. sand w/some silt, trace coarse sand and gravel.	SP/SM		
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B FID: D	BORING NO.: ES304-101	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 10.0 ft, no man-made material in bottom of the last sample.

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES304-102
PROJECT NO.:	N4106-0320			START DATE:	7/30/02 (1050)
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/30/02 (1105)
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt surface			
1		1.25 / 2.0	OU6-SO-ES304-102-0002 7/30/02 @ 1055	Sand w/silt		Brown	Poorly graded sand, w/silt mostly fine to med. sand w/some silt, trace coarse sand and gravel.	SP/SM	Dry, no man made material noted in sample.	PID = 0.0 FID = 1.3
2						↓				
3		No recovery								
4										
5		1.5 / 2.0	OU6-SO-ES304-102-0406 7/30/02 @ 1100	Sand		Brown ↓	Poorly graded sand, mostly coarse to med. sand w/less fine sand trace gravel and silt.	SP	Dry, no man made material in sample.	PID = 0.0 FID = 0.0
6 (1)										
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.:	ES304-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 6.0 ft, no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	ES304-103
LOGGED BY:	A. Roy	START DATE:	7/31/02 (1010)
TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/31/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		CHECKED BY:	KJ 10/14/02
ELEVATION FROM:			

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass and topsoil			
1		1.1 / 2.0	OU6-SO-ES304-103-0002 7/31/02 @ 1015	Silty Sand		Brown	Silty sand, mostly fine sand & silt, trace med. to coarse sand and gravel.	SM	Dry, large pieces of brick noted in sample.	PID = 0.0 FID = 0.0
2										
3		1.2 / 2.0	OU6-SO-ES304-103-0204 7/31/02 @ 1020				Similar to previous w/fractured shells and rock.		Dry, pieces of glass, brick and slag noted.	PID = 0.0 FID = 0.0
4										
5		0.5 / 2.0	OU6-SO-ES304-103- 7/31/02 @ 1030	Sand w/silt			0.2' – poorly graded sand w/silt mostly fine to med. Sand, w/less coarse sand, silt, trace gravel.	SP-SM	Moist, pieces of brick, glass, and slag noted in sample.	PID = 0.0 FID = 0.0
6				Silt		Black	0.3' – silt, mostly silt and slag.	ML		
7		1.05 / 2.0	OU6-SO-ES304-103-0608 7/31/02 @ 1040				Sandy silt, mostly silt w/some med. to fine sand, trace coarse sand and gravel, trace organics.		Wet, pieces of glass and brick noted.	PID = 0.0 FID = 955
8										
9		0.7 / 2.0	OU6-SO-ES304-103-0810 7/31/02 @ 1050	Sand w/silt		Gray	Poorly graded sand w/silt, mostly med. to coarse sand w/some silt, few fine sand, trace gravel.	SP-SM	Wet, trace pieces of brick noted.	PID = 0.0 FID = 0.0
10										
11		1.25 / 2.0	OU6-SO-ES304-103-1012 7/31/02 @ 1145	Sand			Poorly graded sand, 0.5' – mostly coarse sand w/few med. to fine sand.	SP	Wet, no man made material noted.	PID = 0.0 FID = 0.0
12							0.55' – mostly fine sand w/trace med. sand.			
13		1.5 / 2.0	OU6-SO-ES304-103-1214 7/31/02 @ 1210				Poorly graded sand mostly med. sand w/few coarse sand, and fine sand, trace gravel and silt.		Wet, no man made material noted.	PID = 0.0 FID = 0.0
14 (1)										
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: E

Tetra Tech NUS, Inc.

BORING NO.: ES304-103

1. Bottom of Exploration (B.O.E.) at 14.0 ft, no man made material noted in sample.

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES304-104
PROJECT NO.:	N4106-0320	START DATE:	7/30/02 (1500)
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/30/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.35 / 2.0	OU6-SO-ES304-104-0002	Sand		Light Brown	Poorly graded sand, mostly fine to med. sand w/little coarse sand, trace silt and gravel.	SP	Dry, no man made materials noted in sample.	PID = 0.0 FID = 7.3
2			7/30/02 @ 1505							
3		1.65 / 2.0	OU6-SO-ES304-104-0204				Poorly graded sand, mostly fine sand, trace med. sand, and silt.		Wet, PACM and slag noted in sample.	PID = 0.0 FID = 2120
4			7/30/02 @ 1525			Gray				
5		1.25 / 2.0	OU6-SO-ES304-104-0406						Wet, PACM noted in sample.	PID = 0.0 FID = 962
6			7/30/02 @ 1550				Solid PACM material.	Fill		
7		0.2 / 2.0	OU6-SO-ES304-104-0608	PACM material (fill)					Saturated, large pieces of PACM noted in sample.	PID = 0.0 FID = 4.2
8			7/30/02 @ 1630				w/trace silt			
9		2.0 / 2.0	OU6-SO-ES304-104-0810	Organic silt			Organic silt. Mostly silt and organics	OL/OH	No man made material noted in sample.	PID = 0.0 FID = 722
10 (1)			7/30/02 @ 1645							
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT			
METHOD OF SOIL SAMPLING:	Grab Using Macro-Core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: ?	BORING NO.:	ES304-104	PAGE: 1 OF 1

1. Full suite samples collected, except where noted
2. Bottom of Exploration (B.O.E.) @ 10.0 ft.

BORING LOG FOR:	Raymark OU6		BORING NO.: ES304-201
PROJECT NO.:	N4106-0320		START DATE: 5/8/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/8/03
DRILLED BY (Company/Driller):	ADT/Scott P.		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.7 / 2.0	OU6-SO-ES304-201-0002 1000	Fill		Brown	0 – 0.2 - Turf grass			
2						Brown/ Gray	0.3 – 1.0 - Poorly graded fine SAND 1.0 – 2.0 – poorly graded SAND with gravel	SP		
		1.2 / 2.0	OU6-SO-ES304-201-0204 1005			Gray	2.0 – 3.0 - Poorly graded SAND with black streaks	SP	Saturated ~ 2.5' bgs	0.0
4						Dark gray/ Black	3.0 – 4.0 - Fine SAND, some fibers and flakes of solid material			FID
		1.0 / 2.0	OU6-SO-ES304-201-0406 1010			Dark gray	Poorly graded SAND, some fines and fill (wood, unknown solid waste)	SP		0.0
6										FID
		1.0 / 2.0	OU6-SO-ES304-201-0608 1015				SAND and GRAVEL mixed with Fill	SW	2' water in core	
8										
		0.9 / 2.0	OU6-SO-ES304-201-0810 1020				8 – 8.6 - poorly graded SAND with trace gravel	SP	2' water in core	0.0
10							8.6 – 10 - PEAT (muck – sapric)	PT		FID
		1.0 / 2.0	OU6-SO-ES304-201-1012 1025				PEAT sapric / few fibers	PT		0.0 ppm Breathing zone
12										6 ppm in hole
				EOB @ 12' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab with Macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:		BORING NO.: ES304-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES304-202
PROJECT NO.:	N4106-0320	START DATE:	5/8/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/8/03
DRILLED BY (Company/Driller):	ADT/Scott P.		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.3 / 2.0	OU6-SO-ES304-202-0002 1105	Fill			0 – 0.2 - Top soil			
2						Brown	0.2 – 1.3 - Well graded SAND, some silt	SM		
		1.2 / 2.0	OU6-SO-ES304-202-0204 1110				2.0 – 3.0 - Well graded SAND	SW		
4						Brown	3.0 – 4.0 - Poorly graded SAND, trace gravel	SP		
		1.3 / 2.0	OU6-SO-ES304-202-0406 1115				4.0 – 5.9 - Medium SAND, some brick, silt, peat	↓	Saturated ~ 5' bgs	
6							5.9 – 6.0 - PEAT	PT		
		0.8 / 2.0	OU6-SO-ES304-202-0608 1120			Dark Brown	PEAT (hemic)	↓		
8										
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Macrocore		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:		BORING NO.: ES304-202	PAGE: 1 OF 1

TtNUS Form 0018

340 EAST MAIN STREET

BORING LOG FOR:	Raymark OU6		BORING NO.: ES340-101
PROJECT NO.:	N4106-0320		START DATE: 7/17/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/17/02
DRILLED BY (Company/Driller):	ADT/ A. Hurst		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
				Asphalt			Asphalt			
1		1.2 / 2.0	OU6-SO-ES340-101-0002 7/17/02 @ 1215	Sand With Gravel		BROWN	Asphalt 0.2 ft. Poorly graded SAND with gravel	SP	Fill material, Dry, no man made material noted	PID = 0.0 FID = 0.0
2							Mostly coarse SAND to med. SAND w/some gravel & fine sand, trace silt			
3		1.2 / 2.0	OU6-SO-ES340-101-0204 7/17/02 @ 1225							PID = 0.0 FID = 0.0
4										
5		2.0 / 2.0	OU6-SO-ES340-101-0406 7/17/02 @ 1230							PID = 0.0 FID = 3.0
6										
7		1.0 / 2.0	OU6-SO-ES340-101-0608 7/17/02 @ 1256						Still no man made material observed	PID = 0.0 FID = 0.3
8										
				BOE						

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S instrument Group E. BOE @ 8.0 ft, no man made material observed in samples	BORING NO.: ES340-101	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6		BORING NO.: ES340-102
PROJECT NO.:	N4106-0320		START DATE: 7/17/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/17/02
DRILLED BY (Company/Driller):	ADT/ A. Hurst		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
				Asphalt			Asphalt			
1		1.0 / 2.0	OU6-SO-ES340-102-0002 7/17/02 @ 1305	Sand		BROWN	Top 0.8 ft. poorly graded SAND, mostly f. sand w/some med. Sand, trace coarse sand & gravel	SP	Dry, no man made material noted in sample	PID = 0.0 FID = 0.0
2				Silty SAND			Bottom 0.2 ft., silty SAND, mostly silt & fine sand	SM		
3		1.2 / 2.0	OU6-SO-ES340-102-0204 7/17/02 @ 1315	Sand W/silt			Poorly graded SAND w/silt. Mostly fine to med. SAND w/some silt, trace coarse sand.	SP-SM		PID = 0.0 FID = 0.0
4				sand			Bottom 0.5 ft. poorly graded SAND, mostly coarse to med. sand w/some fine sand, trace gravel.			
				BOE						

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S instrument Group E. Confirmation dup. Collected from 0-2ft interval.	BORING NO.: ES340-102	PAGE: 1 OF 1

BOE @ 8.0 ft, no man made material encountered.

BORING LOG FOR:	Raymark OU6		BORING NO.: ES340-103
PROJECT NO.:	N4106-0320		START DATE: 7/17/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/17/02
DRILLED BY (Company/Driller):	ADT/ A. Hurst		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
							Grass & Dirt			
1		1.2 / 2.0	OU6-SO-ES340-103-0002 7/17/02 @ 1345	Sand & Fill		BROWN	Poorly graded SAND, mostly fine to med. sand w/some coarse sand, trace silt and	SP	PACM identified in sample. Blue green color, small pieces.	PID = 0.0 FID = 0.0
2							Gravel frac. rock noted			
3		0.6 / 2.0	OU6-SO-ES340-103-0204 7/17/02 @ 1350						PACM identified larger pieces, possible tile & shingle.	PID = 0.0 FID = 0.0
4						BLACK	Bottom 0.3', mostly fine sand & fill			
5		Poor rec. 0.2 / 2.0	OU6-SO-ES340-103-0406 7/17/02 @ 1400						PACM noted in sample.	PID = 0.0 FID = 0.0
6										
7		0.6 / 2.0	OU6-SO-ES340-103-0608 7/17/02 @ 1410						PACM wood noted in sample, moist	PID = 0.0 FID = 5.2
8							Poorly graded SAND, mostly fine sand & fill			
9		1.8 / 2.0	OU6-SO-ES340-103-0608 7/17/02 @ 1420	Organic Soil			Organic soil, top 1.5 ft. mostly SILT	OL/OH	1 small piece of PACM noted in top 0.2 ft of sample, remaining soil appeared to be natural.	PID = 0.0 FID = 226.0
10							& organics. Bottom 0.2 ft mostly organic and coarse to med.			
				BOE			SAND			

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S instrument Group E. PACM = Potential Asbestos Containing Material.	BORING NO.: ES340-103	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES340-104
PROJECT NO.:	N4106-0320			START DATE:	7/17/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/17/02
DRILLED BY (Company/Driller):	ADT/ A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass & Top soil surface			
1		1.6 / 2.0	OU6-SO-ES340-104-0002 7/17/02 @ 1440	Fill		BROWN	Poorly graded SAND, mostly med. To fine sand	SP	PACM noted in lower portions of sample.	PID = 0.0 FID =16.4
2							w/some coarse sand, trace gravel and silt.			
3		1.5 / 2.0	OU6-SO-ES340-104-0204 7/17/02 @ 1450				Poorly graded SAND, mostly fine		Trace PACM noted in sample. Traces of red, orange, and gray sand.	PID = 0.0 FID = 56.5
4							sand and some fill material.			
5		Poor rec. 0.2 / 2.0	OU6-SO-ES340-104-0406 7/17/02 @ 1500			Dark	Mostly fine SAND and FILL material.		Fill possible PACM w/metal wire.	PID = 0.0 FID = 0.0
6						Gray				
7		Poor rec. 0.1 / 2.0	OU6-SO-ES340-104-0608 7/17/02 @ 1510				FILL material and trace		PACM noted, sample is saturated w/water	PID = 0.0 FID = 20.8
8							sand.			
9		0.7 / 2.0	OU6-SO-ES340-104-0810 7/17/02 @ 1515	Organic Soil		Brown	Organic soil, mostly ORGANIC	OL/OH	Decomposing organic matter.	PID = 0.0 FID = 16.0
10							w/some silt.			
				BOE						

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S instrument Group A.	BORING NO.: ES340-104	PAGE 1 OF 1

BOE @ 10 ft, natural organic soils encountered, no man made material noted in last sample.
PACM = Potential Asbestos Containing Material.

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES340-105
PROJECT NO.:	N4106-0320			START DATE:	7/17/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/17/02
DRILLED BY (Company/Driller):	ADT/ A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Dirt & Grass			
1		1.5 / 2.0	OU6-SO-ES340-105-0002 7/17/02 @ 1610	Fill			Poorly graded SAND, mostly fine to med.	SP	Fill dry, no PACM noted	PID = 0.0 FID =30.2
2							sand, trace coarse sand and gravel and frac. rock.			
3		1.5 / 2.0	OU6-SO-ES340-105-0204 7/17/02 @ 1630				Mostly fine SAND and FILL		PACM noted in sample, moist. Metal wire in PACM pieces.	PID = 0.0 FID = 238.2
4							material, trace coarse sand and silt			
5		1.2 / 2.0	OU6-SO-ES340-105-0406 7/17/02 @ 1645						PACM noted in sample, saturated.	PID = 0.0 FID = 893
6							Mostly fill			
7		0.2 / 2.0	OU6-SO-ES340-105-0608 7/17/02 @ 1715						Fill material only a few fragments in sample.	PID = 0.0 FID = 720.0
8										
9		2.0 / 2.0	OU6-SO-ES340-105-0810 7/17/02 @ 1735	Organic Soil			Organic soil, mostly silt and	OL/OH	No man made material noted in sample.	PID = 0.0 FID = not
10							organics.			Functioning

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe		*Tetra Tech NUS,*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Full analytical was collected for this location. Very poor recovery there was only a few pieces of fill in 2 sample sleeves collected an asbestos sample for this interval. PACM = Potential Asbestos Containing Material.	BORING NO.: ES340-105	PAGE 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES340-106
PROJECT NO.:	N4106-0320			START DATE:	7/26/02 (1107)
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/26/02 (1140)
DRILLED BY (Company/Driller):	ADT/ A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass & Top soil			
1		1.6 / 2.0	OU6-SO-ES340-106-0002 7/26/02 @ 1115	Sand	Medium		Poorly graded SAND, mostly	SP	Fill material, dry, pieces of metal noted in sample.	PID = 0.0 FID =0.0
2							fine to med. sand w/some coarse sand trace gravel and fill.			
3		1.5 / 2.0	OU6-SO-ES340-106-0204 7/26/02 @ 1125	Sand w/silt & fill		Light	SAND with silt, mostly fine sand w/some silt.	SP-SM	Fill, dry, pieces of brick, glass noted in sample.	PID = 0.0 FID = 0.0
4					Loose	Brown	Trace med. to coarse sand and gravel.			
5		1.8 / 2.0	OU6-SO-ES340-106-0406 7/26/02 @ 1130				Top 1.3' mostly coarse sand to med. sand w/some silt & fill material.		PACM note. Fill PACM noted, possible tile.	PID = 0.0 FID = 911
6					Loose		Bottom 0.5' organic soil, mostly SILT and ORGANICS.			
7		1.0 / 2.0	OU6-SO-ES340-106-0608 7/26/02 @ 1135	Organic			Organic soil mostly SILT and ORGANICS. Some coarse sand in bottom 0.3' of sample.	OL/OH	Some fill in top 0.1 ft of sample. Rest is natural in appearance.	PID = 0.0 FID = 1,020
8					Loose					
				BOE						

TYPE OF DRILLING RIG:	Track Mounted Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group E

Tetra Tech NUS, Inc.

BORING NO.: ES340-106

BOE @ 8 ft. no man made material noted in bottom 0.9 ft of sample. Soils appeared to be of natural origin.
PACM = Potential Asbestos Containing Material.

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	ES340-107
LOGGED BY:	A. Roy	START DATE:	7/31/02 (0910)
TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/31/02 (1000)
DRILLED BY (Company/Driller):	ADT/ A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		CHECKED BY:	TD
ELEVATION FROM:			

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Top soil & organic matter			
1		1.5 / 2.0	OU6-SO-ES340-107-0002 7/31/02 @ 0920	Silty Sand	Medium	Light Brown	Top 0.5' silty, SAND mostly Silt and fine sand, trace organics.	SM	Moist, trace shingle material.	PID = 0.0 FID =0.0
2				Sand w/silt		Gray	Bottom 1.0 ft. poorly graded SAND w/silt, mostly fine sand w/some silt	SP-SM		
3		1.65 / 2.0	OU6-SO-ES340-107-0204 7/31/02 @ 0930				trace coarse sand and gravel.	↓	Sample is very wet, pieces of glass noted.	PID = 0.0 FID = 470
4				Silt / Sand	Loose	Black	Bottom 1.0 ft. SILT and frac. rock, mostly silt w/some sand	SM		
5		1.6 / 2.0	OU6-SO-ES340-107-0406 7/31/02 @ 0940	Sand w/silt	Very Loose		0.6 ft. poorly graded SAND w/silt, mostly coarse to med. sand w/some silt & fine SAND.	SP-SM	Wet, PACM material noted. Just before organic layer.	PID = 0.0 FID = 3,170
6				Organic soil	↓	brown	1.0 ft. organic soil, mostly SILT and ORGANIC matter.	OL/OH		
7		1.6 / 2.0	OU6-SO-ES340-107-0608 7/31/02 @ 0955	↓	↓	↓	↓	↓	Moist, no man made material noted in sample.	PID = 0.0 FID = 402
8										
				BOE						

TYPE OF DRILLING RIG:	Truck Mounted Geo-Probe		*Tetra Tech NUS,*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group E	BORING NO.: ES340-107	PAGE: 1 OF 1

BOE @ 8 ft. No man made material noted in sample. Confirmation sample collected from 0-2 ft. interval.

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES340-201
PROJECT NO.:	N4106-0320	START DATE:	5/7/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/70/3
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.5 / 2.0	OU6-SO-ES340-201-0002 1445	Fill		Brown	Well graded SAND, trace gravel	SW		0.0 PID
2										
		1.6 / 2.0	OU6-SO-ES340-201-0406 1452			Tan	2 – 3.2 - Well graded SAND, some organics		Saturated @ 2'	
4						Dark brown	3 – 4 - Fine SAND with red mottles, asbestos fibers?	SP		
		0.9 / 2.0	OU6-SO-ES340-201-0406 1500			Gray	4 – 5.5 - Same as above	SW	1.5' water in sleeve	0.0 PID
6							5.5 – 6 - Well graded sand w/ gravel Contains organics, asbestos, pine needles			
		2' water 1.7 / 2.0	OU6-SO-ES340-201-0608 1510			Gray	6 – 6.8 - Poorly graded coarse SAND, glass, gravel, wood	SP		
8						Brown	6.8 – 8 - PEAT			0.0 PID
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: ES340-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES340-202
PROJECT NO.:	N4106-0320	START DATE:	5/7/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/7/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.9 / 2.0	OU6-SO-ES340-202-0002 1530	Fill		Brown Gray	0 – 0.5 - Poorly graded fine SAND, trace gravel, with black streaking	SP	moist	0.0 PID
2							0.5 – 1.9 – Fine-medium SAND w/ possible asbestos "burlap" sheet material, resin? fragments	SP		
		1.5 / 2.0	OU6-SO-ES340-202-0204 1535			Brown/ Gray	SAND unidentified materials, Resin fragments?, ceramic tiles	SW		
4										
		1.0 / 2.0	OU6-SO-ES340-202-0406 1540				SAND, organic material, tile fragments		Saturated @ ~4'	0.0 PID
6										
		0.6 / 2.0	OU6-SO-ES340-202-0608 1600				Apparent tiles (ceramic) and sand		3' water in sleeve	0.0 PID
8										
		1.7 / 2.0	OU6-SO-ES340-202-0810 1605				8 – 8.3 – Well graded sand, some gravel, tiles			0.0 PID
10							8.3 – 10 - PEAT			
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:		BORING NO.: ES340-202	PAGE: 1 OF 1

TtNUS Form 0018

380 EAST MAIN STREET

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES380-201
PROJECT NO.:	N4106-0320	START DATE:	5/16/03
LOGGED BY:	L. Seydewitz, D. MacDougall	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/16/03
DRILLED BY (Company/Driller):	ADT/ Scott P.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.3 / 2.0	OU6-SO-ES380-201-0002 1325	Fill		Brown	SAND, mostly fine to medium sand, some coarse sand	SP	Dry	PID 0.0
2							Trace silt, trace roots, trace fill (slag)			
		1.1 / 2.0	OU6-SO-ES380-201-0204 1330			Brown	SAND, mostly fine to medium sand, some silt, Fill material (iron, clay)	SP	Damp	PID 0.0
4										
		1.5 / 2.0	OU6-SO-ES380-201-0406 1340			Orange	Silty SAND, mostly fine to medium sand, some silt, Trace organics (roots), trace fill (slag)	SM	Damp	PID 0.0
6						Brown				
		1.5 / 2.0	OU6-SO-ES380-201-0608 1350			Orange	Silty SAND, mostly fine to medium sand, some silt, some small roots	SM	Damp	PID 0.0
8						Brown				
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group : B	BORING NO.: ES380-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES380-202
PROJECT NO.:	N4106-0320			START DATE:	5/16/03
LOGGED BY:	L. Seydewitz, D. MacDougall, K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/16/03
DRILLED BY (Company/Driller):				MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-ES380-202-0001	Fill ↓		Brown	SAND, mostly fine to medium sand, some coarse sand, trace roots, trace fine gravel, fill material (slag)	SP	Dry	
1			1405							
				EOB @ 1' bgs			3 attempts, 2 refusals @ 0.5 ft.			

TYPE OF DRILLING RIG:			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Hand auger		
METHOD OF SOIL SAMPLING:	Grab using hand auger		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group : B	BORING NO.: ES380-202	PAGE: 1 OF 1

TtNUS Form 0018

250 EAST MAIN STREET

BORING LOG FOR:	RAYMARK			BORING NO.:	SB-309S
PROJECT NO.:				START DATE:	02/25/99 @1610
LOGGED BY:	T. DORGAN	TRANSCRIBED BY:	MES	COMPLETION: DATE:	02/26/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington			MON. WELL NO.:	MW-309S
GRD. SURFACE ELEVATION:	11.7 ft.	ELEVATION FROM:	NGVD 1929	CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass Surface			
2							No samples taken.			
4							Refer to SB-309B log for details			
6							D & W to 20'			
8										
10										
12										
14										
16										
18										
20										
							EOB @ 20'			
							Construct well with screen from 5-20' bgs.			

TYPE OF DRILLING RIG:	Mobile Drill – B59			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing			
METHOD OF SOIL SAMPLING:				
METHOD OF ROCK CORING:				
GROUNDWATER LEVELS:				
OTHER OBSERVATIONS:	Water level in MW-309D ~ 6' away = 7.5' bgs	BORING NO.:	SB-309S	PAGE: 1 OF 1

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309D
PROJECT NO.:		START DATE:	02/24/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/25/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	MON. WELL NO.:	MW-309D
GRD. SURFACE ELEVATION:	11.6 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION Grass surface	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
10							No samples collected.		Advanced 4" casing to 94 ft. bgs.	
20							Refer to log for 309B for details.			
30										
40										
50										
60										
70										
80										
90										
100										
							EOB @ 94. Ft. bgs. Construct well from			
							84 to 94 ft. BGS.			

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing.
METHOD OF SOIL SAMPLING:	
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK		BORING NO.: SB-309B
PROJECT NO.:			START DATE: 02/16/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington		MON. WELL NO.: MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
2										
	5	0.6' / 2.0'	OU2-S0-309-0204			Dark Brown	SAND. Mostly f-c sand, little rounded gravel	SW	**Strong natural-gas odor**	FID=4,292
	9									
	5									PID=0.5
4	2		1245 S-1							
	2	1.4' / 2.0'	OU2-S0-309-0406			Light Olive – br.			Saturated	FID=4,290
	2									
	3									PID=0.4
6	5		1255 S-2							
	5	1.0' / 2.0'	OU2-S0-309-0608				SAND. Mostly f-med. Sand, fining into a poorly graded Fine sand.	SP		FID=4,200
	5									
	7									PID=0.4
8	9		1308 S-3							
	11	1.2' / 2.0'	OU2-S0-309-0810				Fine poorly graded SAND. Trace silt.	SP		FID=35
	13								Fine bedding layers & oxidation	
	10					Oxidation Orange	Inc. ½" thick fine sandy SILT. With minor bedding Noted.			PID=0.3
10	14		1320 S-4							
	8	1.8' / 2.0'	OU2-S0-309-1012			Lt. Olive Brown	SAND, mostly fine poorly graded sand, trace silt, trace med. Sand.	SP		FID=100
	9									
	11									PID=0.5
12	13		1335 S-5							
	22	1.1' / 2.0'	OU2-S0-309-1214			Brown w/ Minor	S-6A=0.4' similar to above	SW / GW		FID=23
	23								Minor oxidation in S-6B	
	25					Red-Orange (inc. blk)	S-6B=0.7' gravely, f-coarse SAND			PID=0.2
14	23		1410 S-6							
	21	1.3' / 2.0'	OU2-S0-309-1416				Gravelly, med.-coarse SAND	GW		FID=15.4
	12									
	14									PID=0.2
16	18		1425 S-7					SP		

TYPE OF DRILLING RIG:	Mobile Drill – B 59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	Water Level measure @ 10' bgs on 02/17/99 in A.M. W.L. meas. 6.5' BGS on 02/18/99
OTHER OBSERVATIONS:	

1315 radio K.O. to notify gas co. of poss. Leak & request PID. 1400 scg onsite to check for gas leaks FID=4,000 ppm., SCG meter=0.5%, title-probe holes nearby=6%-50% beside frog pond bar.

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	MON. WELL NO.:	MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
16										
	16	1.4' / 2.0'	OU2-SO-309-1618			Brown -	GRAVEL and SAND, sand is med-coarse gravel is	GW	Saturated	Lost ~ 30-
	16					Black w/	f-c subrounded.			50 gal. H_2O
	16					Minor				@ 16'
18	16		1440 S-8			Oxidation		SP		FID=12
	8	1.0' / 2.0'	OU2-SO-309-1820							PID=0.2
	12					Brown	Similar to above			
	14									FID=6.3
20	16		1450 S-9							PID=0.2
									Begin standard int. Sampling D&W to 24'	
22										
24										
	21	0.8' / 2.0'	OU2-SO-309-2426							
	14					Brown	Similar to S-9 above	GW	Saturated	FID=9.8
	15									PID=0.1
26	14		1515 S-10					SP		
28										
30	18	0.7' / 2.0'	OU2-SO-309-2931			Brown -	Gravelly, f-c well graded SAND, some f-c rounded gravel	SW	Saturated – no odor	FID=72
	9					Light				
	10					Gray				PID-0.4
	12		1535 S-11							
32										

TYPE OF DRILLING RIG:	Mobile Drill – B 59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	MON. WELL NO.:	MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
32										
34										
	8	0.9' / 2.0'	Ou2-so-309-3436			Brown -	Gravelly, med-coarse SAND	SW	Losing water 32-36' ~ 30 gallons	FID=32
36	5 9		1555 S-12			Light Gray	Gravel are f-c well rounded			PID=0.2
38										
40	8 10	0.6' / 2.0'	OU2-SO-309-3941			Brown	Similar to S-12 above	SW	Saturated	FID=28
	11 12		1615 S-13							PID=0.2
42										
44										
	13	0.4' / 2.0'	OU2-SO-309-4446			Brown-	Gravelly, f-c SAND	SW		FID=8.0
46	15 16 16		1640 S-14			Light Gray				PID=1.2
48										

TYPE OF DRILLING RIG:	Mobile Drill – B 59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing		
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Stop 2/16 w/ casing @ 44 and last sample = 4446	BORING NO.: SB-309B	PAGE: 3 OF 9

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	MON. WELL NO.:	MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET) 48	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
	16	0.7' / 2.0'	OU2-S0-309-4951			Light				
50	16					Brown	SAND and GRAVEL—well graded f-c sand and well	SW / GW		FID=9.5
	15		0820 S-15				Graded f-c gravel rounded			
	14									PID=0.0
52										
54										
	7	1.2' / 2.0'	OU2-SO-309-5456							
	9					Light	SAND, mostly fine poorly graded sand, trace silt	SP	Bedding layers noted	FID=18.1
	13					Brown				
56	21		0844 S-16							PID=1.6
58										
	9	1.0' / 2.0'	OU2-SO-309-5961							
60	12					Light	Similar to S-16 above. Sands are mica rich	SP	Fine bedding noted (x-bedding?)	FID=24.1
	15		0920 S-17			Brown				
	18									PID=4.0
62										
64										

TYPE OF DRILLING RIG:	Mobile Drill – B 59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing		
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: SB-309B	PAGE: 4 OF 9

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	MON. WELL NO.:	MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
64										
	4	1.0' / 2.0'	OU2-SO-309-6466			Light Brown	SAND, mostly f-c well graded sand, trace fine gravel	SW	No structure	FID=10.0 PID=4.8
	10									
	15									
66	14		1045 S-18							
68										
									Harder driving @ 68.5	
	34	0.8' / 2.0'	OU2-SO-309-6971			Light Brown to	Gravelly, SAND = S-19A – 0.4' f-c well graded			FID=4.0
70	50						SAND w/little fine subang. Gravel	SW		PID=2.5
	29		1105 S-19			Light	S-19B=SAND and GRAVEL, trace silt, comact grvl. ls	GW / SW	S-19B=till?	
	30					gray	Angular phyllite		Wash H_2O color change from brown to olive-green	
72										
74										
	16	0.1' / 2.0'	OU2-SO-309-7476				Poor recovery only f-c gravel fragments		Poss. coarse gravel or cobbles?	FID & PID =
	18									
	30									Not done
76	24		1150 S-20							Poor
										recovery
78										
	15	0.7' /	OU2-SO-309-7981			Olive	Gravelly f-c SAND, gravel is f-c subrounded			FID=14.8
80	17		S-21			Brown		SW		PID=5.0

TYPE OF DRILLING RIG:	Mobile Drill – B 59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T.DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	MON. WELL NO.:	MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
80										
	28	2.0'	OU2-SO-309-7981			Olive				FID=14.8
	21		1320 S-21			Brown	Gravelly f-c SAND, gravel is f-c subrounded	SW	Mixed gravel rock types	PID=5.0
82										
84										
	100/.1	0.0' / 0.1'	OU2-SO-309-8486	Boulder	No Recovery Spoon Refusal		No Recovery		Spoon refusal drill (roller bit & D&W) through boulder 83.5-86'	
86			1340 S-22							
88									D&W to 89'	
90	23	1.0' / 2.0'	OU2-SO-309-8991			Gray	SAND and GRAVEL, mixture of f-c sand, and f-c subang - angular gravel	GW/SW		FID=6.0
	12		1435 S-23							
	18									PID=2.4
92	22									
94										
	23	1.0' / 2.0'	OU2-SO-309-9496				Sandy, GRAVEL. Mostly f-c subang.	GW		FID=10.8
	18		Grain-size collected							
96	17		1540 S-24				Subrounded gravel. little f-c sand, trace silt			PID=2.5
	72									

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T.DORGAN	TRANSCRIBED BY:	MES
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	COMPLETION: DATE:	02/18/99
GRD. SURFACE ELEVATION:	11.2 ft.	MON. WELL NO.:	MW-309B
ELEVATION FROM:	NGVD 1929	CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
96									Roller bit to 99', fresh uniform rock cuttings from 97-99' Seat casing @ 96' in top 0.2-0.5' of bedrock = casing refusal	
98										
100			C-1=99'-99.5' PEN=0.5' REL=0.3' Water loss= ~ 50 gal. RQD = 0%			Dark Gray & white	Quartz, biotite, SCHIST& GNEISS with variable quantities of chlorite, minor garnet and Pyrite. High angle to vert. Foliation and folded, minor calcite veining. Abundant quartz veins.		C-1 water loss ~50 gallons slight bend or angle change in boring @ 101FT	
					4:15					
102			C-2=99.5-109' PEN=9.5' REC=9.5' RQD length=88" RQD=77% Water loss 500 gallons		3:50					
					3:05				C-2 water loss = ~500 gallons	
104					3:20		- High angle fracture's @ 103-104'			
					2:00		- Multiple high and low angle frac. 104-105.5'			
106					2:30					
					3:05		- high angle fractures along foliation 106-107'			
108					3:40					
					3:00		- high angle frac. @ 109'			
110			C-3=109'-119'		2:40				C-3 water loss	
			PEN=10.0 REC=9.5 RQD=88% Water loss=300		2:00		- numerous low angle horiz. Frac. From 110.2-112.2'		= 300 gallons	
112					2:20					

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T.DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington	MON. WELL NO.:	MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET) 112	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
					2:20	Dk. Gry & white	Similar rock type as above			
114					2:35		- High angle fracture @ 113.2'			
					2:20		- horiz. Jagged frac. @ 114.25'			
116					2:40					
					2:30		- High angle frac. @ 116.1' and 117'			
118					2:35					
					2:25		- High fractured high angle and low angle			
120			C-4=119'-124' PEN=6.0 REC=6.2 RQD length=28.5" RQD=47%		2:45		From 118.25 – 121.5'		C-4 water loss ~ 300-400 gal.	
					3:30					
122					3:45		- Mult. Low angle to 45° frac. 121'			
					3:45					
124					3:40		- Mult. High angle frac. 123'-124.5'			
			C-5=124-130 PEN=6.0 REC=6.0' RQD length=53" RQD=85%		3:35		- Numerous horiz. Jagged frac's 125-126.7'		C-5 water loss = 250 gal	
126					4:00					
					4:15	Lt. Gry w/ Pnk&white	- Quartz vein with potassium feldspar, pink And white 126.2'-127.			
128					4:05	Dk. Gray & white	High angle frac. @ 127'			

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	4 in. ID drive and wash casing
METHOD OF SOIL SAMPLING:	2 in. split-barrel sampler driven with a 140 lb. Hammer with a 30 in. drop
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK	BORING NO.:	SB-309B
PROJECT NO.:		START DATE:	02/16/99
LOGGED BY:	T.DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/18/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M. Harrington		MON. WELL NO.: MW-309B
GRD. SURFACE ELEVATION:	11.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
128										
					3:50	Dark gray & white	Similar rock type as above.			
130					4:00				Total water loss = approx. 1,500 gal.	
							End of Boring at 130 ft.			
							Construct bedrock well screened from 99'-129'			

TYPE OF DRILLING RIG:	
METHOD OF ADVANCING BORING:	
METHOD OF SOIL SAMPLING:	Refer to page 1 of 9
METHOD OF ROCK CORING:	
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6			BORING NO.:	DI-201
PROJECT NO.:	N4106-0320			START DATE:	5/6/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/6/03
DRILLED BY (Company/Driller):	ADT/Scott Przybylski			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.8 / 2.0	OU6-SO-DI-201-0002				0.0-0.5' - Asphalt road base removed	GP		0.0 FID
2			1048				0.5–1.8 – Medium-fine SAND with black streaks, organics	SP		
		2.0 / 2.0	OU6-SO-DI-201-0204				Fine-medium SAND	SP		0.0 FID
4			1050				Moist, black streaking top 1'			
		1.8 / 2.0	OU6-SO-DI-201-0406				Fine-medium SAND	SP		0.0 FID
6			1100				Fine SAND well graded	SP		
		1.6 / 2.0	OU6-SO-DI-201-0608		Stratified					0.0 FID
8			1112		~6' start				Saturated ~6'	
				EOB @ 8' bgs						
							Appears to be native soil so stopped DPT			
							4 screening samples collected			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Acetate liner		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	South side of Dresser Ind. Building	BORING NO.: DI-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	DI-202
PROJECT NO.:	N4106-0320			START DATE:	5/6/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/6/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.4 / 2.0	OU6-SO-DI-202-0002 1155				0-0.6 - Asphalt road base gravel removed			0.0 FID
2							0.6-1.4 - Well graded medium SAND, Moist	SP		
		1.2 / 2.0	OU6-SO-DI-202-0204 1200				Same as above	SP		0.0 FID
4									Saturated @ ~4' bgs	
		1.9 / 2.0	OU6-SO-DI-202-0406 1205				Well graded SAND	SW		0.0 FID
6										
		1.9 / 2.0	OU6-SO-DI-202-0608 1210				Fine poorly graded fine SAND	SP		0.0 FID
8										
		1.7 / 2.0	OU6-SO-DI-202-0810 1215				Poorly graded fine SAND some possible shell fragments Intermixed with sand	SP		0.0 FID
10										
				EOB @ 10' bgs						
							5 samples collected, completed 1220 hrs			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	D.P.T.		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:		BORING NO.: DI-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	DI-203
PROJECT NO.:	N4106-0320	START DATE:	5/6/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/6/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-DI-203-0002				0-0.2 - Fill – dump pile? 0.2-0.6 – PEAT and medium SAND, dredged		Wood debris	0.0 FID
2			1320				0.6-1.6 - Mix PEAT with black SILT		Dry	
		1.7 / 2.0	OU6-SO-DI-203-0204				2-2.7 - PEAT (dry)			0.0 FID
4			1325			Gray	0.7-1.2 -SILT 1.2 – 1.7 - Poorly graded SAND with some gravel	ML SW	Moist	
		1.2 / 2.0	OU6-SO-DI-203-0406							0.0 FID
6			1335				Well graded GRAVEL with sand	GW		
		1.0 / 2.0	OU6-SO-DI-203-0608				Well graded GRAVEL with small chunk of peat @ 10'	GW	Saturated @ ~ 8'	0.0 FID
8			1345							
		0.8 / 2.0	OU6-SO-DI-203-0810							0.0 FID
10			1355							
		2.0 / 2.0	OU6-SO-DI-203-1012				10-11 - PEAT with gravel in top 1'	PT	Saturated	
12			1405				11-12 - Hemic PEAT	PT		
				EOB @ 12' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	D.P.T.		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Phragmites/small soil piles	BORING NO.: DI-203	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	DI-204
PROJECT NO.:	N4106-0320			START DATE:	5/6/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/6/03
DRILLED BY (Company/Driller):	ADT			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.5 / 2.0	OU6-SO-DI-204-0002	Fill			0 – 0.1 - Grass removed		Dry fill area	0.0 FID
2			1450				0.1 – 1.1 - Fine SAND, trace gravel	SP		
		1.7 / 2.0	OU6-SO-DI-204-0204				1.1 – 1.5 - Asphalt and gravel	FILL	Grassy, PID not working	330 ppm FID In hole
4			1500				Fine SAND, some top soil	SP		0.0 ppm FID in Breathing zone
		1.2 / 2.0	OU6-SO-DI-204-0406				4 – 4.2' - GRAVEL, some sand	GP	Appears to be native wetland	0.0 FID in Breathing zone
6			1507				4.2 – 6' - PEAT (hemic)	PT		300 ppm In hole
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:		BORING NO.: DI-204	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	DI-205
PROJECT NO.:	N4106-0320	START DATE:	5/6/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/6/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-DI-205-0002				0 – 0.6 - Asphalt surface, cleared		Dry	0.0 FID
2			1555		Fill?		0.6 –1.15 - Well sorted GRAVEL, some sand	GW		
		1.55 / 2.0	OU6-SO-DI-205-0204				Well sorted GRAVEL, some sand	GW	2.7' bgs saturated	0.0 FID
4			1605							
		1.2 / 2.0	OU6-SO-DI-205-0406		Fill?		Well sorted GRAVEL with some medium sand and fines	GW	saturated	0.0 FID
6			1610							
		1.6 / 2.0	OU6-SO-DI-205-0608				6 – 7.1 - Well sorted GRAVEL with some medium sand	GW		
8			1615				7.1 – 8.0 - Medium-coarse SAND	SP		
		1.4 / 2.0	OU6-SO-DI-205-0810				Medium-coarse SAND	SP		
10			1620							
				EOB @ 10 bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:		BORING NO.: DI-205	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6			BORING NO.:	DI-206
PROJECT NO.:	N4106-0320			START DATE:	5/6/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/6/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.3 / 2.0	OU6-SO-DI-206-0002				0 – 0.6 - Asphalt/ road base gravel		Moist	0.0 ppm PID
2			1655				0.6 –1.3 - Well graded SAND, trace gravel	SW		
		1.7 / 2.0	OU6-SO-DI-206-0204			Dark Brown	2.0 – 2.2 – Poorly graded SAND	SP	Saturated ~ 4'	
4			1700				2.2 – 4.0 - Well graded SAND	SW		
		1.4 / 2.0	OU6-SO-DI-206-0406				Poorly graded medium SAND, trace gravel	SP		0.0 ppm PID
6			1705				Probable native – requested additional to confirm			
		1.7 / 2.0	OU6-SO-DI-206-0608				Poorly graded medium SAND	SP		0.0 ppm PID
8			1715							
				EOB @ 8.0'						

TYPE OF DRILLING RIG:	Geo-probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	N/A			
GROUNDWATER LEVELS:	N/A			
OTHER OBSERVATIONS:		BORING NO.:	DI-206	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6	BORING NO.:	DI-207
PROJECT NO.:	N4106-0320	START DATE:	5/7/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/7/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.5 / 2.0	OU6-SO-DI-207-0002				0 – 0.2-Grass, topsoil			0.0 ppm FID
2			0835				0.2 –1.5-Well graded SAND, some gravel	SW		
		1.65 / 2.0	OU6-SO-DI-207-0204				Well graded SAND, some gravel	SW		0.0 ppm FID
4			0840			Gray	3.0'-Poorly graded fine SAND	SP		
		1.6 / 2.0	OU6-SO-DI-207-0406						Saturated at 4.1' bgs	0.0 ppm FID
6			0850			Gray	Poorly graded medium SAND, trace gravel	SP		
				EOB @ 6.0'						
							Native material @ 3.0' bgs			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:		BORING NO.: DI-207	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6		BORING NO.: DI-208
PROJECT NO.:	N4106-0320		START DATE: 5/7/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/7/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.8 / 2.0	OU6-SO-DI-208-0002			Black/ Brown	0-0.5 - Asphalt/base removed		Slightly moist	0.0 FID
2			0940			Brown	0.5–1.8 - Poorly graded SAND with gravel	SP		
		1.6 / 2.0	OU6-SO-DI-208-0204				Well graded SAND with trace gravel	SW	Dry	
4			0945							
		1.6 / 2.0	OU6-SO-DI-208-0406			Brown	4-4.3 - Poorly graded SAND	SP	Saturated Water ~5' bgs	0.0 FID
6			1002			Dark Brown	4.6-6 - Poor graded SAND with gravel and organics (PEAT)	SP		
		1.5 / 2.0	OU6-SO-DI-208-0608			Brown	6-6.9 - Poorly graded SAND	SP	Saturated	0.0 FID
8			0955			Dark Brown	6.9-8.0 - PEAT	PT		
				EOB @ 8' bgs			Native material @ 6.9 bgs			
							14' of drilling			
							No recovery for 4-6 interval 1st time; advanced new Borehole and skipped 0-4' sample classification			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: DI-208	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6			BORING NO.:	DI-209
PROJECT NO.:	N4106-0320			START DATE:	5/13/03
LOGGED BY:	K. Jalkut	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	N/A			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1st Borehole										
0										
		N/A	OU6-SO-DI-209-0002		Loose	Brown	Fill on surface – slag visible SAND and GRAVEL, fine-coarse sand, well graded fine-coarse	SW/ GW	Brake pad @ 6-8 in. bgs Obvious mounding and visible fill, reinforced concrete pipe	
2			1630				Subrounded gravel, ½ - 1.5 in, organic roots Wet @ 20 in. bgs			
							EOB @ 2'			
2nd Borehole										
0		N/A	OU6-SO-DI-209-000.5		Loose	Brown	Note: collected separate sample 0 –0.5' bgs SAND, some gravel	SP/ GP	Dry 0 –0.5' Organic material (twigs, roots) Visible wafer shaped piece of brake pad	
			1635				Fine-medium SAND, poorly graded, fine gravel up to ½ - ¾ in. trace coarse gravel up to 1", subrounded			
0.5							Organic roots EOB @ 0.5'		2nd borehole with 1' of 0-2' borehole	

TYPE OF DRILLING RIG:	Hand-auger		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Manual		
METHOD OF SOIL SAMPLING:	Grab using hand auger		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:		BORING NO.: DI-209	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	DI-210
PROJECT NO.:	N4106-0320	START DATE:	5/21/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/21/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-DI-210-0002	Reworked Native Material	Loose	Lt-dark Brown	0-6" topsoil – reworked native material, dry	SP	Reworked native material	0.0
2			1220				Poorly graded SAND with silt, trace of asphalt, roots and gravel			
			OU6-SO-DI-210-0204	Manmade Fill		Brown Blue	2-2.5' - Poorly graded SAND 2.5-3' - Asbestos material sludge	SP	Manmade fill	0.0
4			1240			Red	3-3.5' - Asbestos material, coarse GRAVEL and silt		Native material	
			OU6-SO-DI-210-0406	Blue/ Gray		Black	Crushed GRAVEL, black, saturated @ 4'	GP	Native material (reworked fill)	0.0
6			1320							
			OU6-SO-DI-210-0608			Black	6-6.5' similar to above 6.5-7' poorly graded fine SAND	GP SP	Native material	0.0
8			1350		Med		7-8' organic PEAT, saturated	PT	Native, some asbestos like material likely sloff from above 2' of water in sleeve	
			OU6-SO-DI-210-0810		Med	Black/	Organic PEAT, wet	PT	Native material	0.0
10			1430			Brown				0.0
				EOB @ 10' bgs			Native material from 6.5-10'			
							Collected "full suite" for each interval plus one 8 oz jar for screening			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: DI-210	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES304-203
PROJECT NO.:	N4106-0320	START DATE:	5/15/03
LOGGED BY:	D. MacDougall	COMPLETION DATE:	5/15/03
DRILLED BY (Company/Driller):	ADT/Scott P.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	JL

TRANSCRIBED BY: LJD

ELEVATION FROM:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.5 / 2.0	OU6-SO-ES304-203-0002 1455	Fill		Brown	SAND, mostly fine to medium sand Trace silt, trace roots, fill material (possible asbestos tile)	SP	Damp	F 1.4
2										P 0.0
		1.2 / 2.0	OU6-SO-ES304-203-0204 1505			Dark	SAND, fine to medium sand, fill (asbestos tiles)		Damp	F 40.1
4						Brown				P 0.0
		1.1 / 2.0	OU6-SO-ES304-203-0406 1510			Dark	GRAVEL, fine angular gravel, trace silt, trace fine-coarse	GP	Wet	F 10.6
6						Gray	sand, fill material (angular rock)		1.5 ft water in tube	P 0.0
		1.0 / 2.0	OU6-SO-ES304-203-0608 1530			Dark	GRAVEL, mostly angular gravel, schist, trace silt,		Wet	F 87.9
8						Gray	Trace sand		3 ft. water in tube	P 0.0
		1.6 / 2.0	OU6-SO-ES304-203-0810 1545			Orange	PEAT, fiberous material	PT	Moist	
10						Brown				
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: ES304-203	PAGE: 1 OF 1

TtNUS Form 0018

DPW LOT

BORING LOG FOR:	Raymark OU6	BORING NO.:	DPW-101
PROJECT NO.:	N4106-0320	START DATE:	7/22/02 @ 1345
LOGGED BY:	SJC	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/22/02 @ 1630
DRILLED BY (Company/Driller):	ADT/Terry	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1	S-1	2.0 / 2.0	OU6-SO-DPW-101-0002	3"	Loose	Brown	3" Asphalt	SM/	Dry – Damp	PID = 0.0
							Silty fine to medium sand, trace gravel	SW	½ to ¾" gravel	FID = 0.0
2	@ 1350		7/22/02 @ 1350				Sub round Subase Fill	SW		
3	S-2	1.5 / 2.0	OU6-SO-DPW-101-0204	3'			Fill Silty sand – some ash frags.		Moist	PID = 0.0 FID = 0.0
4	@ 1400		7/22/02 @ 1400		Loose	Brown Gray	Fill			
5	S-3	1.9 / 2.0	OU6-SO-DPW-101-0406		Medium Dense		Silty sand – some gravel &	SP	Moist	PID = 0.0 FID = 0.0
6	@ 1415		7/22/02 @ 1415	5.5		Gray	rock frags. Silty sand – trace gravel (Fill)		More uniform	
7	S-4	2.0 / 2.0	OU6-SO-DPW-101-0608		Medium Dense	Gray	Silty fine to medium sand, trace some	SW	Material – but still Fill	PID = 4.1 FID = 4.2
8	@ 1430		7/22/02 @ 1430			Brown	gravel – slight odor. Fill		Moist w/odor	
9	S-5	0.6 / 2.0	OU6-SO-DPW-101-0810		Medium	Brown	Silty sand – trace gravel & Rock frags.		Moist	PID = 0.0 FID = 0.0
10	@ 1440		7/22/02 @ 1440		Dense	Gray	Fill	SW	1 ½ rock frag. bottom	
11	S-6	0.9 / 2.0	OU6-SO-DPW-101-1012				Silty sand – rock frags – piece of Glass @ 11.5'∂		Moist – wet @ 11.5 ∂	PID = 0.0 FID = 0.0
12	@ 1450		7/22/02 @ 1450	Hit Water	Medium Dense		To 12' Fill			
13	S-7	0 / 2.0	OU6-SO-DPW-101-1214	11.5 ∂13			Natural = 12 ft. No recovery Sand = 13'		Water in liner	
14	@ 1500		NO RECOVERY	14						
15	S-8	3.1 / 4.0	OU6-SO-DPW-101-1416	Peat	Soft	brown	Silty (peat), meadow material	PT	Used piston sampler 14-18	PID = 0.0 FID = 0.0
16	@ 1630		7/22/02 @ 1630	↓ 18			Organic material			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab/Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	FID (A) PID (A)	BORING NO.: DPW-101	PAGE: 1 OF 2

BORING LOG FOR:	Raymark OU6			BORING NO.:	DPW-101
PROJECT NO.:	N4106-0320			START DATE:	7/22/02 @ 1345
LOGGED BY:	SJC	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/22/02 @ 1630
DRILLED BY (Company/Driller):	ADT/Terry			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			No Sample		Soft	Brown	Meadow material, trace sand lens. 17∂ 17', ½ " Thick.	PT	Moist	PID = 0.0 FID = 0.0
18				18'						
				TD @ 18'			Bottom @ 18' Backfilled on 7-2202			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab/Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	See page 1	BORING NO.: DPW-101	PAGE: 2 OF 2

BORING LOG FOR:	Raymark OU6	BORING NO.:	DPW-102
PROJECT NO.:	N4106-0320	START DATE:	7/22/02 @ 1433
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/22/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass and topsoil			
1		1.6 / 2.0	OU6-SO-DPW-102-0002 7/22/02 @ 1440	Silty Sand		Brown	Silty sand, mostly fine sand and silt w/some medium sand, trace coarse sand and gravel	SM	No man made material noted in sample, very dry.	PID = 0.0 FID = 0.0
2										
3		0.9 / 2.0	OU6-SO-DPW-102-0204 7/22/02 @ 1450			Gray			Fill material, dry, glass, slag, and other materials noted in sample.	PID = 0.0 FID = not functioning
4										
5		1.0 / 2.0	OU6-SO-DPW-102-0406 7/22/02 @ 1500			Gray	Mostly silt & fine sand and fill material.		Dry, PACM noted in sample, slag, and glass.	PID = 0.0 FID = not functioning
6						Black				
7		0.2 / 2.0	OU6-SO-DPW-102-0608 7/22/02 @ 1505			Brown			Moist, poor recovery, piece of concrete noted in sample.	PID = 0.0 FID = not functioning
8										
9		1.3 / 2.0	OU6-SO-DPW-102-0810 7/22/02 @ 1510						Moist, no man made material in lower portion of sample.	PID = 0.0 FID = not functioning
10				Fine Sand		Light Gray	Bottom – 0.6 –Poorly graded sand Mostly fine sand w/trace silt & medium sand.	SP		
11		1.4 / 2.0	OU6-SO-DPW-102-1012 7/22/02 @ 1520						No man made material noted in sample. Appears to be natural, wet.	PID = 0.0 FID = not functioning
12										
				BOE						

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab/Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	H&S Instrument Group: B, 1-1 BOE at 12.0 ft. bgs, man made material noted in sample, soils appear to be of natural origin.

Tetra Tech NUS, Inc.

BORING NO.: DPW-102

BORING LOG FOR:	Raymark OU6			BORING NO.:	DPW-103
PROJECT NO.:	N4106-0320			START DATE:	7/22/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/22/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass and topsoil			
1		1.2 / 2.0	OU6-SO-DPW-103-0002 7/22/02 @ 1545	Silty Sand		Brown	Silty sand, mostly fine sand and silt w/some medium sand, trace coarse sand and gravel.	SM	Dry, no man made material noted in sample.	PID = 0.0 FID = 0.0
2						↓		↓		
3		0.8 / 2.0	OU6-SO-DPW-103-0204 7/22/02 @ 1555	Sand		↓	Poorly graded sand, mostly fine sand trace medium to fine sand & gravel frac. rock noted in sample.	SP ↓		PID = 0.0 FID = 0.0
4						↓		↓		
				BOE						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab/Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S Instrument Group: B, 1-1 BOE at 4.0 ft. bgs, man made material observed in fill.	BORING NO.: DPW-103	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	DPW-104
PROJECT NO.:	N4106-0320	START DATE:	7/23/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/23/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.8 / 2.0	OU6-SO-DPW-104-0002 7/23/02 @ 0845	Silty sand	Medium	Brown	Silty sand, mostly silt and fine sand, trace medium and coarse sand and gravel.	SM	Dry, piece of tile noted.	PID = 0.0 FID = 0.0
2										
3		1.2 / 2.0	OU6-SO-DPW-104-0204 7/23/02 @ 0855	Fill W/sand					Dry-moist fill, pieces of slag and asphalt noted in sample.	PID = 0.0 FID = 0.0
4						Reddish Brown				
5		0.3 / 2.0	OU6-SO-DPW-104-0406 7/23/02 @ 0905		Loose	Brown			No man made material noted in sample.	PID = 0.0 FID = not functioning
6										
7		0.4 / 2.0	OU6-SO-DPW-104-0608 7/23/02 @ 0910				Poorly graded sand, mostly medium to fine sand w/some coarse sand, trace gravel and silt.	SP	Man made material observed (glass, possible slag & tile) moist.	PID = 0.0 FID = not functioning
8										
9		0.8 / 2.0	OU6-SO-DPW-104-0810 7/23/02 @ 0915						Trace slag noted in top of sample, moist.	PID = 0.0 FID = not functioning
10				Sand						
11		1.8 / 2.0	OU6-SO-DPW-104-1012 7/23/02						Moist, no man made material noted in sample.	PID = 0.0 FID = 0.0
12										
				BOE						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab/Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S Instrument Group: B, 1-1 BOE at 12.0 ft. bgs, man made material noted, soils appear to be of natural origin.	BORING NO.: DPW-104	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6	BORING NO.:	DPW-105
PROJECT NO.:	N4106-0320	START DATE:	7/23/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/23/02
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
							Grass and Topsoil			
1		1.5 / 2.0	OU6-SO-DPW-105-0002 7/23/02 @ 0945	Sand		Brown	Poorly graded sand, mostly fine sand w/some medium sand, trace silt.	SP	Dry, no man made material noted in sample.	PID = 0.0 FID = 0.0
2										
3		0.9 / 2.0	OU6-SO-DPW-105-0204 7/23/02 @ 0955	Silty Sand			Silty sand, mostly fine sand and silt, trace coarse sand and gravel.	SM	Dry, no man made material noted in sample.	PID = 0.0 FID = 0.0
4										
5		0.7 / 2.0	OU6-SO-DPW-105-0406 7/23/02 @ 1000						Red plastic noted in sample, as well as possible slag or asphalt.	PID = 0.0 FID = 0.0
6										
7		0.9 / 2.0	OU6-SO-DPW-105-0608 7/23/02 @ 1010						No man made material noted in sample, dry.	PID = 0.0 FID = 0.0
8										
				BOE						

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	H&S Instrument Group: B, 1-1 BOE at 8.0 ft. bgs, no man made materials noted in sample.

BORING NO.: DPW-105

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6			BORING NO.:	DPW-106
PROJECT NO.:	N4106-0320			START DATE:	7/23/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/23/02
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt			
1		0.8 / 2.0	OU6-SO-DPW-106-0002 7/23/02 @ 1025	Sand And Fill		Dark Brown	Poorly graded sand, mostly medium to fine sand, w/some coarse sand, trace gravel and silt.	SP	Fill material, dry, some asphalt noted in sample.	PID = 0.0 FID = 0.0
2										
3		0.9 / 2.0	OU6-SO-DPW-106-0204 7/23/02 @ 1030						Fill, dry – moist, pieces of glass noted in sample.	PID = 0.0 FID = 0.0
4										
5		1.0 / 2.0	OU6-SO-DPW-106-0406 7/23/02 @ 1035				Silty sand, mostly silt, fine sand	SM	Fill, moist, glass, slag, and possible tile fragments and seashell noted in sample.	PID = 0.0 FID = 0.0
6							and fill material, trace coarse sand and gravel.	SM		
7		Poor rec. 0.2 / 2.0	OU6-SO-DPW-106-0608 7/23/02 @ 1040						Fill, moist, slag, & glass noted in sample.	PID = 0.0 FID = 2.5
8										
9		0.9 / 2.0	OU6-SO-DPW-106-0810 7/23/02 @ 1050				Bottom 0.7', mostly silty sand.		No man made material noted in top portion of sample.	PID = 0.0 FID = 0.0
10						Grayish Brown				
11		0.7 / 2.0	OU6-SO-DPW-106-1012 7/23/02 @ 1100				Bottom 0.4' of sample, poorly graded sand, mostly fine sand.	SP	Pieces of glass, wet, no man made material noted in sample.	PID = 10.2 FID = 0.0
12										
13		1.8 / 2.0	OU6-SO-DPW-106-1214 7/23/02 @ 1110							
14										
				BOE						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab/Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	H&S Instrument Group: B, 1-1 BOE at 14.0 ft. bgs, soils are possibly natural.	BORING NO.: DPW-106	PAGE: 1 OF 1

BORING LOG FOR:	Raymark OU6			BORING NO.:	DPW-201
PROJECT NO.:	N4106-0320			START DATE:	5/13/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-DPW-201-0002 1215				0 – 0.4 - Asphalt/base removed		Refusal @ 1.5 ft bgs at 1st attempt	
2						Brown	0.4 – 1.6 - Poorly graded medium SAND, some 1" gravel	SP	Slightly moist	0.0 ppm PID
		1.3 / 2.0	OU6-SO-DPW-201-0204 1220	Clean Fill?			Poorly graded medium SAND with some gravel and fines	SM		0.0
4										FID
		1.4 / 2.0	OU6-SO-DPW-201-0406 1225				Poorly graded fine SAND, some fines	SP		0.0
6										FID
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: DPW-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	DPW-202
PROJECT NO.:	N4106-0320			START DATE:	5/13/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/13/03
DRILLED BY (Company/Driller):	ADT/Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.7 / 2.0	OU6-SO-DPW-202-0002 1300			Tan	0 – 0.5 - Removed asphalt and base material 0.5 – 1.5 - Poorly graded medium SAND some gravel	SP	Slightly moist	0.0
2						White/Red Red/Brown	1.5 – 1.6 - GRAVEL 1.6 – 1.7 - Medium SAND with some gravel			PID
		1.6 / 2.0	OU6-SO-DPW-202-0204 1305			Red/Brown Tan	0 - 0.6 - Medium poorly graded SAND 0.6 – 1.6 - Medium poorly graded SAND with gravel			
4										
		1.5 / 2.0	OU6-SO-DPW-202-0406 1315				Poorly graded medium SAND with some gravel			
6										
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: DPW-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BO`RING NO.: DPW-203
PROJECT NO.:	N4106-0320		START DATE: 5/15/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/15/03
DRILLED BY (Company/Driller):	ADT/Dan G.		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
	not including asphalt	1.2 / 2.0	OU6-SO-DPW-203-0002 0820		Dense	Tan	0 – 0.5 - Removed 0.5' asphalt and base 0.5 – 1.2 - Well graded fine-coarse SAND, some gravel	SW	Dry	0.0 PID
2										
		1.8 / 2.0	OU6-SO-DPW-203-0204 0825			Light Tan	0 – 0.3 - Broken rock (schist) 0.3 – 1.4 - Poorly graded fine-medium SAND with some gravel	SP	Black streaking @ 0.3 – 1.4 interval	
4					Dense	Tan	1.4 – 1.8 - Fine SAND, some silt	SM		0.0
		1.5 / 2.0	OU6-SO-DPW-203-0406 0830				0 – 0.2 - Same as above			PID
6						Tan Brown	0.2 – 0.8 - Well graded fine-coarse SAND, some gravel 0.8 – 1.5 - Fine poorly graded SAND	SW SP		
		0.6 / 2.0	OU6-SO-DPW-203-0608 0840							
8							Poorly graded fine SAND with some silt, 1.5" gravel in nose	SM		
		1.8 / 2.0	OU6-SO-DPW-203-0810 0850						Saturated @ ~9'	
10						Tan	Poorly graded fine SAND	SP		
				EOB @ 10' bgs						0.0 PID

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: DPW-203	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	DPW-204
LOGGED BY:	K. O'Neill	START DATE:	5/15/03
TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/15/03
DRILLED BY (Company/Driller):	ADT/Dan. G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.8 / 2.0	OU6-SO-DPW-204-0002		Moderately		0-0.7 - Turf grass some topsoil and sandy loam 0.7-1.5 - Poorly graded fine-medium SAND with gravel	SP	Slightly moist	0.0 PID
2			Lab QC 0930		Dense	Brown	1.5-1.8 - 1-2" GRAVEL some sand	GM		
		1.7 / 2.0	OU6-SO-DPW-204-0204				Poorly graded fine-medium SAND, some gravel, brick, glass	SP		
4			1000		Loose	Brown				
		1.5 / 2.0	OU6-SO-DPW-204-0406			Tan Brown	0-0.5 – Same as above		Moist	0.0 PID
6			1005			Dark Gray	0.5-1.5– Poorly graded fine-medium SAND some gravel and asphalt	SP	Potential asbestos	
		1.3 / 2.0	OU6-SO-DPW-204-0608			Red/ Brown/gray	0-0.6 - Same as line above, with some brick		Wet @ ~7.5'	
8			1012			Dark gray	0.6-1.3- Poorly graded fine-medium SAND with some fines	SM		
		1.7 / 2.0	OU6-SO-DPW-204-0810				Poorly graded fine SAND some 1-2" gravel	SP		0.0 PID
10			1020			Light gray	Gravelly SAND	SW		
		1.8 / 2.0	No sample submitted				Poorly graded fine-medium SAND, some ¾" gravel	SP		
12										
				EOB @ 12' bgs			Native by 9' bgs, maybe earlier			

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	D.P.T.
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Boring at old DPW-102 location

BORING NO.: DPW-204

Tetra Tech NUS, Inc.

TtNUS Form 0018

251 EAST MAIN STREET

BORING LOG FOR:	Raymark OU2 / Groundwater Phase I			BORING NO.:	SB-216B
PROJECT NO.:				START DATE:	9-23-97
LOGGED BY:	Joe Mello	TRANSCRIBED BY:	FMD	COMPLETION: DATE:	9-23-97
DRILLED BY (Company/Driller):	Alliance / Ron Ball			MON. WELL NO.:	MW-216B
GRD. SURFACE ELEVATION:	31.21	ELEVATION FROM:	NGVD 1929	CHECKED BY:	

DEPTH (FEET)	PID PER 6" (ppm) Screening	SAMP REC. / SAMP LENG.(ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L(ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, Jar HS]
0										
	5.1		S-1			Dark		Topsoil		
1	NA	3'/3'	1100	9"		brown	Organics, (f) SAND & SILT	OL-SM	Moist Topsoil	0.0
	4.5					Red				
2	6.1					brown	Silty, (f) SAND, trace gravel (subrounded)	SM	Dry fill?	
	5.6			2'6"		Light	(f-c) SAND, (f-c) GRAVEL(<3"O.D.) (sub-			
3	4.0					gray	rounded/subangular)	SP-GM	Dry	
	0.0		S-2			Yellow-				
4		3'/3'	1130 - 0305			orange		SP	Dry	
			TOC							
5										0.0
6										
			S-3							
7	5.3	8.5'/8.5'	1200 - 0709							
	0.0		TOC							
8	3.6		(w/Dup)							0.0
	0.0									
9	1.8									
	0.0									
10			-1012							
			TOC							0.0
11										
12										
						Light	SILT, trace gravel (?3 O.D., subrounded), trace		Dry, weathered rock/	
13	NA			12'6"		gray	Fine sand	ML	rock flour	0.0
				13'6"		Dark				0.0
14				Top of		gray	SCHIST (vert. foliations, mica rich)	Rock		
				Rock						
15			C1	13.5'						
			14.5'-20.5'							
16										

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	Advance and wash 6" I.D – 10' long outer casing
METHOD OF SOIL SAMPLING:	4.75" O.D - 10' long sample casing w/rotating bit
METHOD OF ROCK CORING:	Same as soil sampling except water is added
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: SB-216

BORING LOG FOR:	Raymark OU2 / Groundwater Phase I		
PROJECT NO.:		BORING NO.:	SB-216B
LOGGED BY:	Joe Mello	START DATE:	9-23-97
DRILLED BY (Company/Driller):	Alliance / Ron Ball	TRANSCRIBED BY: FMD	COMPLETION: DATE: 9-23-97
GRD. SURFACE ELEVATION:	31.21	MON. WELL NO.:	MW-216B
ELEVATION FROM:	NGVD 1929	CHECKED BY:	

DEPTH (FEET)	PID PER 6" (ppm)	SAMP REC. / SAMP LENG.(ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L(ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, Jar HS]
16										
17	NA		C1 (cont.)		0% RQD	Dark gray	Schist (vert. foliations, mica rich)	Rock		
18		5'/5'	C1:14.5'-20.5'							
19										
20										
21										
22		5'/5'	C2 C2:20.5'-25.5'						Iron-oxide staining, trace white crystalline quartz	
23										
24										
25										
26										
27		7.5'/10'	C3 C3:25.5'-36.0'							
28										
29										
30									Rapid rock coring	
31										
32										

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate + spin
METHOD OF ROCK CORING:	4" vibrate + spin + wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU2 / Groundwater Phase I		BORING NO.: SB-216B
PROJECT NO.:			START DATE: 9-23-97
LOGGED BY:	Joe Mello	TRANSCRIBED BY: FMD	COMPLETION: DATE: 9-23-97
DRILLED BY (Company/Driller):	Alliance / Ron Ball		MON. WELL NO.: MW-216B
GRD. SURFACE ELEVATION:	31.21	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET) 32	PID PER 6" (ppm)	SAMP REC. / SAMP LENG.(ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L(ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, Jar HS]
33			C-3 (cont.)		0% RQD	DK gray	Schist (vert. folliations, mica rich)	Bedrock		
34										
35										
36										
37			C-4							
38		7'/10'	C:4:36.0'-46.0'							
39										
40										
41										
42										
43										
44										
45										
46										
47			C-5 C:5:46.0'-56.0'							
48										

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate + spin
METHOD OF ROCK CORING:	4" vibrate + spin + wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU2 / Groundwater Phase I			BORING NO.:	SB-216B
PROJECT NO.:				START DATE:	9-23-97
LOGGED BY:	Joe Mello	TRANSCRIBED BY:	FMD	COMPLETION: DATE:	9-23-97
DRILLED BY (Company/Driller):	Alliance / Ron Ball			MON. WELL NO.:	MW-216B
GRD. SURFACE ELEVATION:	31.21	ELEVATION FROM:	NGVD 1929	CHECKED BY:	

DEPTH (FEET) 48	PID PER 6" (ppm)	SAMP REC. / SAMP LENG.(ft)	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L(ft)	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, Jar HS]
49			C-5 (cont.)			Dark gray	Schist (vert. folliations, mica rich)	BR		
50										
51		6'/10'								
52									Quartz Vein 1" thick	
53										
54										
55										
56										
57			C-6							
58		8"/10"	C6:56.0'-66.0'							
59										
60										
61									trace pyrite crystals	
62										
66			EOB=66 fbgs							

TYPE OF DRILLING RIG:	Sonic
METHOD OF ADVANCING BORING:	6" + 8" vibrate, spin, and wash
METHOD OF SOIL SAMPLING:	4" vibrate + spin
METHOD OF ROCK CORING:	4" vibrate + spin + wash
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: SB-216

BORING LOG FOR:	RAYMARK /OU2/PHASE I GROUNDWATER	BORING NO.:	SB-216DB
PROJECT NO.:		START DATE:	02/10/99
LOGGED BY:	T. DORGAN	COMPLETION: DATE:	02/11/99
TRANSCRIBED BY:	MES		
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M.Harrington	MON. WELL NO.:	MW-216DB
GRD. SURFACE ELEVATION:	31.2 ft.	CHECKED BY:	
ELEVATION FROM:	NGVD 1929		

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Grass surface			
5									D & W 4 in.	
10									Casing to 16'	
15										
20							Top of bedrock at ~ 15 ft.		No water loss	
25							Core to 68. Core from 68 to 98.8 ft.			
30										
35							Roller bit 3 7/8" to 68 ft.			
40							Roller bit 2 7/8" to clean out bore hole to 100 ft. bgs Bedrock = chlorite, quartz, mica, SCHIST with minor pyrite			
45										
50										
55									Lost ~ 100 gal. @ 57 ft. Continue loosing water ~ 250 gal. Lost 57-60'	
60							1 set slickensides noted @ ~ 56-60' minor calcite			
							Deposition along slick's.		steady water loss.	
62										
64										

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4 in. ID Drive and Wash Casing		
METHOD OF SOIL SAMPLING:	N/A		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Refer to back of page of orig. log for additional core run times	BORING NO.: SB-216DB	PAGE: 1 OF 4

BORING LOG FOR:	RAYMARK /OU2/PHASE I GROUNDWATER		BORING NO.: SB-216DB
PROJECT NO.:			START DATE: 02/10/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/11/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M.Harrington		MON. WELL NO.: MW-216DB
GRD. SURFACE ELEVATION:	31.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
64		←	CORE TIME						Steady water loss	
66									↓	
									Lost 600 gal. From 57'-68'	
68										
			C-1=68'-71.3'			Dark	Garnet, quartz, biotite, SCHIST. Aphanitic with ~ 65°			
		2:50	PEN=3.3			Grey	Angle foliation (to core direction)			
			REC=3.0			↓	↓			
70		3:07	RQD length=18in				Mult. Frac. Parallel to foliation @ 68.5'		Lost 150 gal. During C-1	
			RQD=45%							
		3:34					Mult. Tight fractures paralled to foliation 69.8-71'			
			C-2=71.3'-79'							
72		2:45	PEN=7.7 ft.							
			REC=7.6'							
		3:00	RQD length=72"			↓	↓			
			RQD=77%			Grey &	73-76.5'=QUARTZ (smokey) intrusion ? includes			
74		3:30				Gold	Significant qty. of well formed crystals, vuggy			
		2:47				↓	SCHIST similar to above.			
76		4:10					↓			
		5:02				Dark	Numerous high angle frac. Parallel to foliation			
						Grey	From 76.5'-78'			
78		4:08				↓	↓			
		4:15								
			C-3=79'-88.9'			↓	↓			
80		3:02					Horiz. Frac. With oxidation @ 79.5'			

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	4 in. ID Drive and Wash Casing
METHOD OF SOIL SAMPLING:	N/A
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK /OU2/PHASE I GROUNDWATER		BORING NO.: SB-216DB
PROJECT NO.:			START DATE: 02/10/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/11/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M.Harrington		MON. WELL NO.: MW-216DB
GRD. SURFACE ELEVATION:	31.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
80										
		3:48	C-3=79'-88.9' PEN=9.9' REC=10.0' RQD length=101.5" RQD=85% Water loss ~300 gal				High angle frac. @ 80.5'			
82		4:12					Solid core to 85.2'			
		3:47								
84		3:13								
		3:05					▼			
86		3:58					Horiz. and high angle frac. – 85.2'-86'			
		4:08								
88		5:09					Mult. High angle and horiz. Frac. 87.5' to 90.5' with White gouge on faces	VBR	Gouge composed of mica.	
		6:39								
90		5:43	C-4=88.9'-98.9							
		4:30	PEN=10.0' REC=10.2'				▼ High angle frac. @ 91'			
92		4:48								
		4:19	RQD length=106" RQD=88%				Smokey QUARTZ. From 92-93'			
94		5:07					High angle frac. @ 93'			
							Mult. Frac. @ 94-95'			
96							Smokey QUARTZ. And feldspar. From 95-96'			

TYPE OF DRILLING RIG:	Mobile Drill – B59
METHOD OF ADVANCING BORING:	4 in. ID Drive and Wash Casing
METHOD OF SOIL SAMPLING:	N/A
METHOD OF ROCK CORING:	NQ wireline
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	RAYMARK /OU2/PHASE I GROUNDWATER		BORING NO.: SB-216DB
PROJECT NO.:			START DATE: 02/10/99
LOGGED BY:	T. DORGAN	TRANSCRIBED BY: MES	COMPLETION: DATE: 02/11/99
DRILLED BY (Company/Driller):	AQUIFER DRILLING & TESTING/M.Harrington		MON. WELL NO.: MW-216DB
GRD. SURFACE ELEVATION:	31.2 ft.	ELEVATION FROM: NGVD 1929	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
96										
									Gouge on frac. faces	
98							Mult. High angle frac. @ 97.5'-98.25'			
100							EOB @ 98.9' bgs.			
							Noted = during coring, after pump stopped, water Return up casing would continue for 3-5 min. Sometimes returning 80-100 gallons back into washtub			

TYPE OF DRILLING RIG:	Mobile Drill – B59		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	4 in. ID Drive and Wash Casing		
METHOD OF SOIL SAMPLING:	N/A		
METHOD OF ROCK CORING:	NQ wireline		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: SB-216DB	PAGE: 4 OF 4

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES251-201
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-ES251-201-0002	Sandy Fill	Loose	Light Brown	0 – 8" - Top 8" asphalt removed 8 – 24" - Poorly graded SAND, some silt and gravel dry	SP	Dry	0.0
2			0835							0.0
			OU6-SO-ES251-201-0204		Loose	Dark Brown/ Black	Poorly graded SAND, some coarse gravel, some silt, trace wood and red slag like particles	SP	Dry	0.0
4			0840							0.0
			OU6-SO-ES251-201-0406		Medium	Light Brown/ Yellowish-orange	Silty SAND with some roots	SM	Native material Moist	0.0
6			0850							0.0
				EOB @ 6.0' bgs			NATIVE SILTY SAND FROM 4' – 6'			

TYPE OF DRILLING RIG:	Geo-probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	N/A			
GROUNDWATER LEVELS:	N/A			
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.:	ES251-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES251-202
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-ES251-202-0002	Sandy Fill	Loose	Brown	0" – 8" - asphalt removed before pushing macrocore	SM	Dry	
						Lt. Brown	8" – 24" -Silty SAND with clay pipe fragments and coarse gravel			0.0
2			0905							0.0
			OU6-SO-ES251-202-0204		Loose	Dark Brown/	Poorly graded SAND with silt, coarse gravel and concrete	SP	Dry	0.0
4			0910			Black	Refusal @ 4' Move 6" and retry; failed 2nd and 3rd attempt			0.0
				EOB @ 4' bgs						
							TERMINATED EXPLORATION DUE TO REFUSAL @ 3.5' – 4' after 3 attempts			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: ES251-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES251-203
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-ES251-203-0002 0950	Reworked native and man made fill	Loose	Dark Brown	0" – 3" – bark mulch 3" – 8" - asphalt, removed from sample			0.0
2						Black/ Gray	8" – 29" - Sandy FILL with glass, wood, asphalt, pipe (clay)	Fill		0.0
			OU6-SO-ES251-203-0204 0955			Light Gray	Concrete FILL with some sand and coarse gravel			0.0
4										0.0
			OU6-SO-ES251-203-0406 1005		Loose	Light Brown Yellow - Orange	Silty SAND w/glass, cloth, leather, coal, wood, metal	SM	Moist/saturated	0.0
6							Suspect asbestos material, fiberous sticky black chunks		GW @ 5'	0.0
			OU6-SO-ES251-203-0608 1015	Native Material	Medium	Black/ Dark Brown	Refusal @ 5.5 –6' retry new hole Silty SAND with trace wood	SM	Moist/saturated	0.0
8										0.0
				EOB @ 8' bgs			NATIVE MATERIAL FROM 6' – 8'			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: ES251-203	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES251-204
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/22/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-ES251-204-0002 1030		Loose	Light Brown	0" -6" – topsoil	SM	Reworked fill/ reworked native Dry	0.0
2					↓		6" – 24" -Silty SAND some gravel and trace roots			0.0
			OU6-SO-ES251-204-0204 1040		Loose	Light Brown	Poorly graded medium SAND, some gravel	SP	Native material Dry	0.0
4					↓					0.0
			OU6-SO-ES251-204-0406 1050		Loose	Light Brown	Well graded SAND, some rounded gravel	SW	Native material	0.0
6					↓	Dark Yellow			Wet	0.0
				EOB @ 6' bgs			NATIVE MATERIAL 2' – 6'			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: ES251-204	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	ES251-205
PROJECT NO.:	N4106-0320			START DATE:	5/22/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/28/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-ES251-205-0002 1100		Loose	Dark brown/ Black	Top 6" bark mulch Poorly graded SAND, some silt and coarse gravel – trace Asphalt – dry	SP- SM	(Fill reworked)	0.0 0.0
2										
			OU6-SO-ES251-205-0204 1105				Silty SAND, some rounded gravel Trace roots – dry	SM	Reworked fill	0.0 0.0
4										
			OU6-SO-ES251-205-0406 1110		Loose	Dark Brown	Similar to above with coarse gravel – dry		Fill	0.0
6							Similar to above with coarse gravel 5.5 to 6' concrete flakes – dry		Fill	0.0
			OU6-SO-ES251-205-0608 1115			Gray	Poorly graded SAND with concrete - dry	SP	Fill	0.0
8										0.0
			OU6-SO-ES251-205-0810 1120				Similar to above Refusal on concrete @ 10' bgs	SP	Fill	
10										
							Stop exploration temporarily, business is open, customers			
							coming for lunch. Refer to P.2 for continuation.			

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.:	ES251-205	PAGE: 1 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES251-205 (continuation)
PROJECT NO.:	N4106-0320	START DATE:	5/22/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/28/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			No sample collected – resumed DPT @ 10' bgs on 5/28/03; See previous boring log page							
10										
		1.8 / 2.0	OU6-SO-ES251-205-1012 0820		Somewhat Dense	Tan with some dark streaks	Poorly graded medium-coarse SAND, some fine-coarse gravel	SP	Fill	0.0 FID
12									Wet Saturated ~ 11'	
		1.7 / 2.0	OU6-SO-ES251-205-1214 0830				Gravelly SAND (poorly graded medium-coarse) with some	SP	Fill	
14					Dense	Brown	Dark stained lenses of similiar material			
		1.8 / 2.0	OU6-SO-BPA-205-1416 0845				Similar to above	SP		0.0 FID
16					Dense	Brown				
				EOB @ 16' bgs			Appears to be native material at ~12'			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: ES251-205	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	ES251-206
PROJECT NO.:	N4106-0320	START DATE:	5/28/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/28/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD

TRANSCRIBED BY: LAH

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.8 / 2.0	OU6-SO-ES251-206-0002 1010		Loose	Brown	Poorly graded medium SAND, some fine-coarse gravel	SP	2 attempts with no recovery 0-4'; 3rd attempt successful	0.0 FID
2							Has black or dark gray staining		Fill	
		1.7 / 2.0	OU6-SO-ES251-206-0204 1020		Loose	Brown With	Poorly graded medium SAND, some fine gravel (wire insulation	SP		0.0 FID
4						Staining	and "China" porcelain pieces)		Fill	
		1.6 / 0.6	OU6-SO-ES251-206-0406 0940		Loose to	Black/	Medium SAND with asphalt shingle fragments, and rubber	SP	Fill	0.0 FID
6					Dense	Gray	resin, ash?			
		1.0 / 2.0	OU6-SO-ES251-206-0608 0950		Loose	Black/ Gray	0-0.3-Similar to above	SP	Saturated @ 7.5' bgs	
8					Dense	Brown	0.3-1.0-Poorly graded fine SAND, some silt	SM	Native @ ~ 7.7' bgs	
		1.5 / 2.0	OU6-SO-ES251-206-0810 1000			Brown/	Poorly graded fine SAND, some silt	SM	Native	
10					Dense	Gray	Some vegetation roots @ 10' bgs	SP		0.0 FID
		1.3 / 2.0	OU6-SO-ES251-206-1012 1005		Loose	Light gray	Poorly graded fine SAND			
12										
				EOB @ 12' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: ES251-206	PAGE: 1 OF 1

TtNUS Form 0018

BEACON POINT AREA

BORING LOG FOR:	Raymark OU6		BORING NO.: BPA-201
PROJECT NO.:	N4106-0320		START DATE: 5/27/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/27/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JD/TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.0 / 2.0	OU6-SO-BPA-201-0002 1255			Dark Brown	Fine-medium SAND, some organics (roots, etc)	SP		PID/FID
2						Light Brown	Fine-medium SAND	SP	Trace organics to ~ 2'	
		1.1 / 2.0	OU6-SO-BPA-201-0204 1300				↓			
4									Moist	
		1.8 / 2.0	OU6-SO-BPA-201-0406 1315				↓		Wet	0.0/0.0
6						Brown	Fine-medium SAND, trace fine gravel	SP		
		1.2 / 2.0	OU6-SO-BPA-201-0608 1320			Gray	Fine-medium SAND	SP		
8						Brown	↓			
		1.5 / 2.0	OU6-SO-BPA-201-0810 1325			Gray Brown	Fine-coarse SAND, trace fine gravel, trace glass fragments	SW/ Fill	Wood pieces at 9.5'	
10										
		0 / 2.0	OU6-SO-BPA-201-1012 **No Recovery** 1420				No recovery, wood fragments on side of liner No recovery (using piston)			
12										
		0 / 2.0	OU6-SO-BPA-201-1214 **No Recovery** 1425							
14										
		2.0 / 2.0	OU6-SO-BPA-201-1416 1450	EOB @ 16' bgs		Dark	Fine SAND and SILT, trace phragmites	OL	Organic odor	3.1 PID
16						Gray	Native material			0.0 FID

TYPE OF DRILLING RIG:	Geoprobe (track-mounted)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: BPA-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPA-202
PROJECT NO.:	N4106-0320	START DATE:	5/27/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/27/03
DRILLED BY (Company/Driller):	ADT/D. Gooley	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.1 / 2.0	OU6-SO-BPA-202-0002 1215, 1230*, 1231 (1)		Loose	Gray	0 – 0.4' - Asphalt and base removed		Wet 1st attempt refusal @ 4' 2nd attempt refusal @ 3' 3rd attempt refusal @ 4'	0.0
2						Dark Gray	0.4 – 1.1' - Poorly graded fine-medium SAND w/silt			
		0.7 / 2.0	OU6-SO-BPA-202-0204 1225				Gravely medium SAND w/silt	SP	Gravel = fine-coarse Saturated ~2	0.0
4							Refusal @ 3.9 in 3 attempts			FID
		1.4 / 2.0	OU6-SO-BPA-202-0406 1300(2)				0 – 0.6' - Poorly graded coarse SAND (crushed stone) and asphalt pieces		H_2S odor	
6					Dense		0.6 – 1.4' - Poorly graded fine-medium SAND w/organic silt	SM		
		1.8 / 2.0	OU6-SO-BPA-202-0608 1315			Dark	Poorly graded medium SAND w/some coarse gravel			0.0 FID
8						Gray				
				EOB @ 8' bgs			Appears native @ approximately 5' bgs			
							* = co-located dup. 1230 (1) = confirmation dup. at 1231			
							(2) = Metal fragments @ 202 appears to be "dragged" down with nose of spoon			
							4 boreholes total			

TYPE OF DRILLING RIG:	Geoprobe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: * co-located dup. @ 1230; (1) confirmation Dup @ 1231	BORING NO.: BPA-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BPA-203
PROJECT NO.:	N4106-0320		START DATE: 5/27/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/27/03
DRILLED BY (Company/Driller):	ADT/Dan G.		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.0 / 2.0	OU6-SO-BPA-203-0002 1340		Fill	Variable From light gray	Sandy angular GRAVEL with asphalt and medium sand			0.0 FID
2					Loose	Dark Brown			Moist	
		1.7 / 2.0	OU6-SO-BPA-203-0204 1350		Loose	Dark Gray	Medium SAND with fine-coarse gravel and silt		↓	
4					Fill					
		0.7 / 2.0	OU6-SO-BPA-203-0406 1400		Loose	Gray/brown	Medium SAND with coarse angular gravel, brick, piece of porcelain plate		Saturated @ 5.5' bgs	
6					Fill					
		1.3 / 2.0	OU6-SO-BPA-203-0608 1405		loose	Dark	0-0.6-Same as above			0.0 FID
8						Gray/ Black	0.6-1.3-Coarse SAND with fine-coarse gravel, glass, wood		Fill	
	2nd attempt	1.6 / 2.0	OU6-SO-BPA-203-0810 1410			Black	0-1.3-Medium SAND with wood, glass			
10						↓	1.3-1.6-fine-medium poorly graded SAND some fines refusal @ 9.6 on 1st attempt		Some organic silt?	
		1.2 / 2.0	OU6-SO-BPA-203-1012 1440				0-1.1-Organic SILT with some fine sand	OL		
12							1.1-1.2-poorly graded fine-medium SAND			
		0.8 / 2.0	OU6-SO-BPA-203-1214 1450				0-0.1-Same as above			
14						Black	0.1-0.8-poorly graded coarse SAND and fine gravel	GP		
		1.4 / 2.0	OU6-SO-BPA-203-1416 1500				0-0.3-Same as above			0.0 PID
16						Black	0.3-1.4-Organic SILT with some clay.	OL		

EOB @ 16' bgs Native approximately 14' bgs

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	D.P.T.
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: B Total 26' bgs; multiple boreholes

Tetra Tech NUS, Inc.

BORING NO.: BPA-203

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	BPA-204
PROJECT NO.:	N4106-0320			START DATE:	5/27/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/27/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JD/TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.2 / 2.0	OU6-SO-BPA-204-0002 1525		Slightly Loose	Light Brown	Fine SAND, some silt	SP		PID/FID
2						Light Brown	Fine-coarse SAND, some silt, roofing tile & glass Pieces mixed	SW	Cobble at 2'	
		1.8 / 2.0	OU6-SO-BPA-204-0204 1530			Black	Fine-medium SAND, glass & tile pieces	SP		
4						Red	Fine-coarse SAND, iron stained	SW		
		1.9 / 2.0	OU6-SO-BPA-204-0406 1540			Light Brown	Fine-coarse SAND	SW		0.0/0.0
6						Orange & White	Anthropogenic mixed crumbly material, 1" lens			
		1.1 / 2.0	OU6-SO-BPA-204-0608 1545			Black	Fine-coarse SAND, trace fine gravel	SW	Roofing tile piece at 5.8'	
8							↓			
		1.2 / 2.0	OU6-SO-BPA-204-0810 1600 1620 = dup			Black	Fine-coarse SAND, trace silt Some white tiles at 10'	SW		
10										
		0 / 2.0	OU6-SO-BPA-204-1012 **No Recovery**				**No recovery**			
12										
		0 / 2.0	OU6-SO-BPA-204-1214 **No Recovery** 1730				**No recovery**			
14										
		2.0 / 2.0	OU6-SO-BPA-204-1416 1750	EOB @ 16' bgs		Black	Fine SAND and SILT	SM/ML		0.0 PID
16										0.0 FID

TYPE OF DRILLING RIG:	Geo-probe (track-mounted)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: BPA-204	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BPA-205
PROJECT NO.:	N4106-0320		START DATE: 5/27/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/27/03
DRILLED BY (Company/Driller):	ADT/Dan G.		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										0.0 PID
		1.6 / 2.0	OU6-SO-BPA-205-0002 1535*		Loose	Brown	Poorly graded medium SAND with some fine-coarse gravel	SP		
2									Wet	
		1.9 / 2.0	OU6-SO-BPA-205-0204 1550		Dense	Brown	Poorly graded medium SAND with trace fine gravel	SP		
4									Wet @ 3.8' bgs	
		1.7 / 2.0	OU6-SO-BPA-205-0406 1605				Poorly graded medium SAND, some gravel/wood in nose	SP		
6					1.3 Very	Dark Brown			Saturated @ 5.8'	
		0.5 / 2.0	OU6-SO-BPA-205-0608 1615		Soft	Black	Organic SILT, fine-coarse gravel and rubber gasket material in nose	OL	Oil Sheen & odor	
8							Glass, wood, coarse sand			
		1.1 / 2.0	OU6-SO-BPA-205-0810 1625				Organic muck (SILT) with high plant fiber content (phragmites stem)			
10							Insect carcass (nymph)			
			OU6-SO-BPA-205-1012 1700				Organic SILT with fine sand	OH	Only VOA, Pest/PCB and asbestos collected	
12							Wood piece, shell piece No Recovery on 1st, 0.7 on 2nd attempt			
			OU6-SO-BPA-205-1214 **No Recovery**				No recovery on 1st or 2nd attempt			
14										
			OU6-SO-BPA-205-1416 **No Recovery**							
16										

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.	*MS/MSD SPLP/Dioxin	
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: BPA-205	PAGE: 1 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	BPA-205
PROJECT NO.:	N4106-0320			START DATE:	5/27/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/27/03
DRILLED BY (Company/Driller):	ADT/Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET) 16	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-BPA-205-1618							
18			**No Recovery**							
		1.4 / 2.0	OU6-SO-BPA-205-1820				SILT with trace fine sand	ML		
20			1730						34' total phase	
				EOB @ 20' bgs			Native @ 18'			

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.:	BPA-205	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPA-206
PROJECT NO.:	N4106-0320	START DATE:	5/28/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/28/03
DRILLED BY (Company/Driller):	ADT/Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.2 / 2.0	OU6-SO-BPA-206-0002 1245		Loose	Tan	0-0.4-Asphalt and base removed		Wet @ 1' Piece of asphalt in nose	0.0
2							0.4-1.2-fine-medium SAND (poorly graded) with trace gravel	SP		PID
		1.7 / 2.0	OU6-SO-BPA-206-0204 1250			Brown Black mix	Similar to above with approximately 15 percent asphalt		Wet Water @ 2' Oil odor	
4					Loose			SP		
		1.7 / 2.0	OU6-SO-BPA-206-0406 1255			Gray Brown	Poorly graded fine-medium SAND with fine-coarse gravel, some black stains, glass			0.0
6									Oil odor	PID
		1.7 / 2.0	OU6-SO-BPA-206-0608 1300			Dark	Gravelly SAND	SW	Gasket material Glass Oil odor	
8						Gray	Fine-coarse GRAVEL and well graded fine-coarse SAND			0.0 PID
		1.8 / 2.0	OU6-SO-BPA-206-0810 1310			Dark	0-0.2-Similar to above	SW	Strong oil odor	
10						Black/gray	0.2-1.8-Organic SILT with some fine sand	OL		0.0 PID
			OU6-SO-BPA-206-1012 **NO RECOVERY**				Hole collapsed, driller getting parts for discrete zone sampler			
12										
		1.8 / 2.0	OU6-SO-BPA-206-1214 1415			Black/gray	Organic SILT, fine sand, fine root fibers with glass fragments	OL	Discrete zone sampler used	
14										
		1.6 / 2.0	OU6-SO-BPA-206-1416 1435				Sandy SILT (poorly graded fine sand)	SM	Very light oil odor	
16						Light Gray	Native @ approximately 10' bgs with staining			

EOB @ 16' bgs

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: BPA-206	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPA-207
PROJECT NO.:	N4106-0320	START DATE:	5/29/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/29/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.4 / 2.0	OU6-SO-BPA-207-0002				Poorly graded medium SAND, fine gravel and approximately 10 percent asphalt	Fill	Dry	0.0
2			0910		Loose					PID
		1.2 / 2.0	OU6-SO-BPA-207-0204			Brown	Similar to above with less asphalt and glass			
4			0915							
		1.3 / 2.0	OU6-SO-BPA-207-0406			Dark gray	0-0.8-Fine-coarse SAND with gravel, asphalt, and glass	Fill	Wet @ 4.8'	
6			0925		Dense	Gray	0.8-1.3- PEAT with vegetation roots, asphalt and glass	PT		
		1.3 / 2.0	OU6-SO-BPA-207-0608				PEAT with numerous fine vegetation roots	PT	Saturated	0.0
8			0930		Dense					PID
				EOB @ 8' bgs						
							Apparently native "high marsh" @ 5.8' bgs			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: BPA-207	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPA-208
PROJECT NO.:	N4106-0320	START DATE:	5/29/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/29/03
DRILLED BY (Company/Driller):	ADT/	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.4 / 2.0	OU6-SO-BPA-208-0002			Black/	Fine-medium SAND, some gravel and asphalt	Fill	Dry	0.0
2			0950		Loose	Brown	Some glass		No odor	PID
		1.7 / 2.0	OU6-SO-BPA-208-0204			Gray/black	0-0.3-Similar to above 0.4-Root (tree)		Dry	
4			1005		Loose	Brown Gray/black	0.4-1.3-Fine silty SAND 1.3-1.7-Fine-coarse SAND with green color ash?			
		0.4 / 2.0	OU6-SO-BPA-208-0406			Gray/black	Fine-coarse SAND, with black staining		Slightly moist	0.0
6			1010		Loose	w/ brown	Glass			PID
		0.8 / 2.0	OU6-SO-BPA-208-0608		Loose	Brown	Fine-medium SAND	SP	Wet	
8			1020							
		1.7 / 2.0	OU6-SO-BPA-208-0810			Brown	0-1.1-Fine-medium poorly graded SAND	SP	Wet	0.0
10			1030		Dense	Brown	1.1-1.7-Fine-coarse well graded SAND	SW		PID
				EOB @ 10' bgs			Native @ approximately 7' bgs			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: BPA-208	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPA-209
PROJECT NO.:	N4106-0320	START DATE:	5/2903
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/2903
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.3 / 2.0	OU6-SO-BPA-209-0002 1045			Brown Black	Fine-medium SAND with gravel with asphalt pieces approximately 15 percent	Fill	Dry	
2										
		1.1 / 2.0	OU6-SO-BPA-209-0204 1050				Poorly graded SAND with rounded gravel	SP	Moist	
4										
		1.4 / 2.0	OU6-SO-BPA-209-0406 1055				Similar to above			
6										
		1.4 / 2.0	OU6-SO-BPA-209-0608 1105				Similar to above with some well graded fine-coarse SAND			
8										
		1.7 / 2.0	OU6-SO-BPA-209-0810 1110				Native at 2 ft. bgs			
10										
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: BPA-209	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BPA-210
PROJECT NO.:	N4106-0320		START DATE: 5/29/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/29/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.5 / 2.0	OU6-SO-BPA-210-0002 1140			Brown/ Black	Poorly graded fine-medium SAND with fine gravel and asphalt, wood plant roots		Fill, dry	0.0
2					Loose					PID
		1.6 / 2.0	OU6-SO-BPA-210-0204 1140		Loose		Poorly graded fine-medium SAND with gravel some asphalt		Fill, moist	
4							No recovery on 1st attempt			
		1.2 / 2.0	OU6-SO-BPA-210-0406 1150			Brown	0-0.8 - Fine-coarse well graded SAND	SW	Dry	0.0
6						Black	0.8-1.2 - Fine-medium SAND with fines	SM	Saturated @ 6' bgs	PID
		1.6 / 2.0	OU6-SO-BPA-210-0608 1200			Gray	0-1.1 - Fine-medium SAND with trace fines	SM		
8						Gray	1.1-1.6 - Medium-coarse SAND (poorly graded)	SP		
		1.7 / 2.0	OU6-SO-BPA-210-0810 1210			Gray	0-0.9 - Similar to above		Fill	
10						Black	0.9-1.7 - Medium SAND with glass, rubber, metal			
		1.9 / 2.0	OU6-SO-BPA-210-1012 1225			Black/	Fine-coarse SAND and fine-coarse GRAVEL and glass		Fill	
12						Gray			Discrete sampler used	
		1.1 / 2.0	OU6-SO-BPA-210-1214 1240			Black	Fine-coarse SAND and fine-coarse GRAVEL with glass and wood			
14										
			OU6-SO-BPA-210-1416				**No Recovery**			
16			**No Recovery**							

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core	2nd attempt at 0-4'	
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: BPA-210	PAGE: 1 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	BPA-210
PROJECT NO.:	N4106-0320			START DATE:	5/29/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/29/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET) 16	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.7 / 2.0	OU6-SO-BPA-210-1618 1450			Dark	SILT with some fine sand	ML	H_2S odor	0.0
18					Dense	Gray				PID
		1.8 / 2.0	OU6-SO-BPA-210-1820 1500		↓	↓	Similar to above	ML		0.0
20					↓	↓				PID
				EOB @ 20' bgs						
							Native has minimal depth of 16'			
							But no 14-16' interval recovered			

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.:	BPA-210	PAGE: 2 OF 2

TtNUS Form 0018

1 BEACON POINT ROAD

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: D-SB01
PROJECT NO.:	N7491-0320		START DATE: 7-15-97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY:	COMPLETION DATE: 7-15-97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, PPM]
0	12 33	1.35	OU3-D-SB01-0002		Med. Dense	brown	Gravelly, SAND. mostly poorly graded	SP	Dry concrete, slag + cobbles	8.2
	26 20	2.0	0855 S-1		Dense		f/m sand, trace silt, trace slag + concrete fill (slag is vesicular		HSA grinding + catching on cobbles	
2	15 18	0.4	-0204		Med. Dense					10
	16 8	2.0	0905 S-2							
4	24 25	1.7	-0406		Med. Dense	Gray to BLK	Gravel. Few - some fine to coarse sand, trace silt very dense	GM	Wet - moist in nose, broke sampler, had to cut open. HSA to 7.0' w/out sample to get by obstruction	12
	29 53	2.0	0930 S-3							
7	49 56	1.45	-0709		Very Dense	Yellow Orange to Brown	Saprolite ? or coarse gravel, trace few silty, fine sand, gravel size fragments are easily broken apart with fingers			
8.5	100/5"	1.45	1000 S-4						Fill?	
							EOB @ 9,3' bgs.		HSA to 9.3' no let up in grinding. No break through	
							Move approx. 10-15' + re-attempt boring			

EOB @ 9.3 BGS

TYPE OF DRILLING RIG:	CME 75
METHOD OF ADVANCING BORING:	4.25" ID HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT-BARREL DRIVEN WITH A 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	WATER @ 8.1' BGS W/AUGERS @ 9.3'
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: D-SB01

BORING LOG FOR:	RAYMARK – OU3- FERRY CREEK		BORING NO.: D-SB02
PROJECT NO.:	N7491-0320		START DATE: 7/14/97
LOGGED BY:	TRACY DORGAN	TRANSCRIBED BY: RAC	COMPLETION DATE: 7/14/97
DRILLED BY (Company/Driller):	ATL / MIKE HAWKINS		MON. WELL NO.:
GRD. SURFACE		ELEVATION FROM:	CHECKED BY:

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [PID, PPM]
0	2 5	1.8	OU3-D-SB02-0002	Gravel + Sand		brown	S-1A 0-.6' = gravelly, sand, fill. trace silt , trace glass		matrix is held together w/ long asylcular asbestos like fibers dry	0
	5 4	2.0	1515 S-1			dark brown	S-1B .6-2.0 = fill, silty sand, poorly graded sand w/ red paint or pigment, asbestos fibers	SM ML		
2	4 4	2.0	-0204			Dark brn Gray w/red blotches	Similar to S-1B, more silt than sand, very high amount of fibers and dark red pigment		dry fill	0
	4 4	2.0	1540 S-2						moist, damp fill	
4	1 2	2.0	-0406							1.1 ppm
	1 1	2.0	1550 S-3	Fill						
6	4 4	1.3	-0608						fill	0.6
	4 5	2.0	1605 S-4							
8	9 14	1.1	-0810	8.5'		Light Gray	sand -f/m poorly graded trace fine gravel, trace metal	SP	Saturated fill	0.3
	11 10	2.0	1610 S-5							
10	9 19	1.65	-1012			Black	sand, well graded f-c sand, trace silt, dark gray to black, loose, trace - few fine gravel	SW	Saturated, no odor	0.0
	26 25	2.0	1620 S-6							
12	24 26	1.7	-1214		Dense		Sandy, gravel, well graded gravel. Dense and tight trace silt	GW	No odor	0.2
	37 29	2.0	1630 S-7		Mod. Dense					
14	7 7	1.9	-1416			Bright Orange	sand, some fine coarse gravel. Well graded sand	SW	Bright oxidized orange color	0.0
	17 31	2.0	1655 S-8				EOB @16'			

TYPE OF DRILLING RIG:	CME-75
METHOD OF ADVANCING BORING:	4.25" I D HSA
METHOD OF SOIL SAMPLING:	3" OD SPLIT BARREL DRIVEN WITH 300 LB HAMMER
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	10.8 BGS W/AUGERS @ 14' LEVEL C @ 1515 FOR RIG GEOLOGIST. DRILLERS USING WATER
OTHER OBSERVATIONS:	FOR DUST CONTROL

BORING NO.: D-SB02

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPM-101
PROJECT NO.:	N4106-0320	START DATE:	8/2/02 (0830)
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/2/02 (0925)
DRILLED BY (Company/Driller):	A.D.T./A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD & KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Gravel and sand (surface)			
1		1.5 / 2.0	OU6-SO-BPM-101-0002 8/2/02 @ 0850	Sand		Brown	Sand – Trace Gravel – Trace Silt (Well graded, mostly fine to coarse sand)	SW	Dry, no man-made material noted in sample.	PID FID
2										11.0 0.0
3		1.3 / 2.0	OU6-SO-BPM-101-0204 8/2/02 @ 0855							
4										1.1 0.0
5		1.4 / 2.0	OU6-SO-BPM-101-0406 8/2/02 @ 0900						Dry, PACM material noted in bottom 0.1 ft of sample	
6										0.0 0.0
7		1.3 / 2.0	OU6-SO-BPM-101-0608 8/2/02 @ 0910	Silt with w/sand		Black	Silt – Some Sand (Mostly silt with some fine sand, trace organics)	ML	Moist, PACM noted in sample.	
8										0.0 159
9		1.4 / 2.0	OU6-SO-BPM-101-0810 8/2/02 @ 0920	Organic Silt			Organic Silt (Mostly silt, organics with trace fine sand)	OL/OH	Trace PACM noted in top 0.1 ft. Remainder of sample natural.	
10 (1)										0.0 1,320
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: BPM-101	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 10.0 ft, natural organic soils encountered

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPM-102
PROJECT NO.:	N4106-0320	START DATE:	8/2/02 (1000)
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE:
DRILLED BY (Company/Driller):	A.D.T./A. Hurst		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD & KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.5 / 2.0	OU6-SO-BPM-102-0002	Sand		Brown	Sand – Trace Silt (Well graded, mostly fine to coarse sand.)	SW	Dry, no man-made material noted	PID FID
2			8/1/02 @ 1010							0.0 0.0
3		0.9 / 2.0	OU6-SO-BPM-102-0204						PACM noted in bottom of sample	
4			8/1/02 @ 1025	~4'						0.0 0.0
5		2.0 / 2.0	OU6-SO-BPM-102-0406	Sandy Silt		Gray	Silt – Some Sand – Trace Gravel (Mostly silt with some fine-coarse sand)	ML	Slag noted in sample	
6			8/1/02 @ 1040							0.0 0.0
7		1.25 / 2.0	OU6-SO-BPM-102-0608			Brown			Trace slag noted in top 0.2 ft of the sample	
8 (1)			8/1/02 @ 1130	~7.7' Sand		Gray	(Bottom 0.3') Sand – Trace Gravel (Mostly coarse to medium sand, some fine sand)	SW		0.0 0.0
				B.O.E. Refusal						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: BPM-102	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 8 ft - refusal

BORING LOG FOR:	Raymark OU6			BORING NO.:	BPM-103
PROJECT NO.:	N4106-0320			START DATE:	8/7/02
LOGGED BY:	A. Roy	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	8/7/02
DRILLED BY (Company/Driller):	A.D.T.			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD & KJ

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
							Sand and Gravel (surface)			
1		0.7 / 2.0	OU6-SO-BPM-103-0002 8/7/02 @ 1320	Silty Sand		Brown	Sand – Some Silt – Trace Gravel (Mostly fine sand, trace medium to coarse sand)	SM	Dry, piece of slag noted in sample.	PID FID 0.0 0.0
2										
3		0.45 / 2.0	OU6-SO-BPM-103-0204 8/7/02 @ 1325						Dry, slag and fractured rock noted.	0.0 0.0
4										
5		0.75 / 2.0	OU6-SO-BPM-103-0406 8/7/02 @ 1335	Well graded Sand			Sand – Trace Gravel – Trace Silt (Well graded, mostly fine to coarse sand)	SW	Moist, trace slag noted in the sample.	0.0 0.0
6										
7		0.3 / 2.0	OU6-SO-BPM-103-0608 8/7/02 @ 1350						Slag and fractured rock noted.	0.0 0.0
8 (1)										
				B.O.E. refusal			Refusal @ 8 ft. bgs			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BPM-103	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 8.0 ft due to refusal.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BPM-104
PROJECT NO.:	N4106-0320		START DATE: 8/7/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/7/02
DRILLED BY (Company/Driller):	A.D.T./S. Przybylski		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD & KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Sand and Gravel (surface)			
1		1.1 / 2.0	OU6-SO-BPM-104-0002	Silty Sand		Brown	Silty Sand – Some Gravel (Mostly silt and fine sand with some medium to coarse sand and gravel).	SM	Dry, piece of wood and slag noted in sample	PID FID
2			8/7/02 @ 1420	~2'						0.0 0.0
3		1.8 / 2.0	OU6-SO-BPM-104-0204				Sand – Trace Gravel (Well graded, mostly fine to coarse sand).	SW	Dry, slag noted in sample	
4			8/7/02 @ 1425			Black				0.0 0.0
5		1.9 / 2.0	OU6-SO-BPM-104-0406	Sand		Black and White				
6			8/7/02 @ 1500							0.0 0.0
7		0.8 / 2.0	OU6-SO-BPM-104-0608						Fill material, slag noted in sample	
8			8/7/02 @ 1510	~8'						0.0 0.0
9		1.7 / 2.0	OU6-SO-BPM-104-0810	Organic Silt		Gray	Organic Silt – Trace Sand (Mostly silt and organic material, trace fine sand)	OL/OH	No man-made material noted in sample	
10 (1)			8/7/02 @ 1515							71.2 100.2
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BPM-104	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 10 ft. No man-made material noted in 8-10 ft interval.

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPM-105
PROJECT NO.:	N4106-0320	START DATE:	8/7/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/7/02
DRILLED BY (Company/Driller):	A.D.T./S. Przybylski	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD & KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Sand and Gravel (surface)			
1		1.4 / 2.0	OU6-SO-BPM-105-0002 8/7/02 @ 1545	Silty Sand		Light brown	Sand – Some Silt – Trace Gravel (Mostly fine sand, some silt, trace medium to coarse sand and gravel).	SM	Dry, No man-made material noted in sample.	PID FID
2										0.0 0.0
3		1.75 / 2.0	OU6-SO-BPM-105-0204 8/7/02 @ 1550							
4										0.0 0.0
5		0.40 / 2.0	OU6-SO-BPM-105-0406 8/7/02 @ 1600						Dry, No man-made material noted.	
6										0.0 0.0
7		0.70 / 2.0	OU6-SO-BPM-105-0608 8/7/02 @ 1605	Well graded Sand			Sand – Trace Gravel (Well graded, mostly fine to coarse sand).	SW		
8										0.0 0.0
9		2.0 / 2.0	OU6-SO-BPM-105-0810 8/7/02 @ 1610				Sand – Trace Gravel (Well graded, mostly coarse to fine sand).		Wet, No man-made material noted.	
10										0.0 0.0
11		2.0 / 2.0	OU6-SO-BPM-105-1012 8/7/02 @ 1615							
12 [1]										
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BPM-105	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 12.0 ft. No man-made material noted in samples.

BORING LOG FOR:	Raymark OU6	BORING NO.:	BPM-106
PROJECT NO.:	N4106-0320	START DATE:	8/8/02
LOGGED BY:	A. Roy	TRANSCRIBED BY: RAC	COMPLETION: DATE: 8/8/02
DRILLED BY (Company/Driller):	A.D.T./S. Przybylski	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD & KJ

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Asphalt surface			
1		1.65 / 2.0	OU6-SO-BPM-106-0002	Silty Sand		Brown	Sand – Some Silt – Trace Gravel (Mostly fine sand, some medium to coarse sand)	SM	Dry, No man-made material noted in sample, some fractured rock	PID FID
2			8/8/02 @ 0830				↓	↓		27.0 0.0
3		1.85 / 2.0	OU6-SO-BPM-106-0204	~3'			↓	↓	Dry, No man-made material noted in sample	
4			8/8/02 @ 0835	Well graded Sand ~5'			Sand – Trace Gravel (Well graded, mostly fine to coarse sand).	SW		11.8 2.3
5		1.75 / 2.0	OU6-SO-BPM-106-0406				↓	↓		
6			8/8/02 @ 0840	Silty Sand ~6'			Sand – Some Silt – Trace Gravel (Mostly fine sand, trace coarse sand).	SM	Moist no man-made material in sample	2.0 0.0
7		1.8 / 2.0	OU6-SO-BPM-106-0608	Well graded Sand ~9'			Sand – Trace Silt – Trace Gravel (Well graded, mostly fine to coarse sand).	SW		
8			8/8/02 @ 0910				↓	↓		1.8 0.0
9		2.0 / 2.0	OU6-SO-BPM-106-0810				↓	↓	Moist no man-made material in sample may still be fill	
10			8/8/02 @ 0930	Sandy Silt			Silt – Some Sand – Trace Gravel (Mostly silt with fine sand, trace coarse sand).	ML		0.0 0.0
11		?	OU6-SO-BPM-106-1012				↓	↓		
12			8/8/02 @ 0935	~12			↓	↓		0.0 0.0
13		1.75 / 2.0	OU6-SO-BPM-106-1214	Well Graded Sand			Sand – Trace Silt – Trace Gravel (Well graded, mostly fine to coarse sand).	SW	Wet, no man-made material noted in sample	
14 (1)			8/8/02 @ 1015							0.0 0.0
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: BPM-106	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 14.0 ft, there was no man-made material noted in sample. Refusal conditions present. A second attempt was made to advance a boring 1.5 ft southeast of original location. Refusal conditions were encountered at 12.0 ft.

AIRPORT PROPERTY NORTH OF MARINE BASIN

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-201
PROJECT NO.:	N4106-0320	START DATE:	5/8/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/8/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.8 / 2.0	OU6-SO-BA2-201-0002 1315/1320*			Brown	0 – 0.3 - Medium SAND, some organics, well graded		*OU6-SO-DUP02, co-located duplicate	
2						Tan	0.3-1.8-Well graded medium SAND	SW	Moist	
		1.9 / 2.0	OU6-SO-BA2-201-0204 1325				Well graded SAND (medium)			0.0 FID
4							Some black streaking throughout, trace gravel			
		1.9 / 2.0	OU6-SO-BA2-201-0406 1335				Same as above		Moist	FID 0.0
6										
		1.8 / 2.0	OU6-SO-BA2-201-0608 1344				Same as above		~7' Saturated	
8										
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T			
METHOD OF SOIL SAMPLING:	Grab Using Macro-core			
METHOD OF ROCK CORING:	N/A			
GROUNDWATER LEVELS:	N/A			
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.:	BA2-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-202
PROJECT NO.:	N4106-0320	START DATE:	5/8/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/8/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		2.0 / 2.0	OU6-SO-BA2-202-0002 1405			Tan	0 – 0.4 - Topsoil	SW	Moist	
2							0.4 – 2.0 - Well graded SAND with some organics and some gravel			
		1.8 / 2.0	OU6-SO-BA2-202-0204 1410				Well graded medium SAND		Moist	
4										0.0 ppm PID
				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	BA2-203
PROJECT NO.:	N4106-0320			START DATE:	5/8/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/8/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.7 / 2.0	OU6-SO-BA2-203-0002 1430				0 – 0.3 - Topsoil see below			0.0 PID
2							0.3 – 1.7 - Well graded SAND with trace gravel	SW	Moist	
			OU6-SO-BA2-203-0204 1435				Well graded medium SAND	SW	Moist	0.0 PID
4				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-203	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BA2-204
PROJECT NO.:	N4106-0320		START DATE: 5/8/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/8/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JD/JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.85 / 2.0	OU6-SO-BA2-204-0002 1510	Fill			0 – 0.3 - Topsoil 0.3 – 1.5 - Poorly graded medium SAND	SP	Dry	
2						Light Gray	1.5 – 1.8 - Solid material cement like			
		1.6 / 2.0	OU6-SO-BA2-204-0204 1515			Tan	Poorly graded medium SAND with trace gravel		Moist	0.0
4										FID
		1.6 / 2.0	OU6-SO-BA2-204-0406 1520			Tan	Poorly graded medium SAND with trace1-2" quartz gravel		Moist	
6										
		1.6 / 2.0	OU6-SO-BA2-204-0608 1525			Brown	Same as above with some black streaking		Saturated ~ 7' bgs	0.0
8										FID
		1.4 / 2.0	OU6-SO-BA2-204-0810 1530			Brown	Poorly graded medium SAND, trace gravel		Saturated	
10										
		1.1 / 2.0	OU6-SO-BA2-204-1012 1535			Brown	10 – 10.2 - Poorly graded medium SAND			0.0
12						Tan	10.2 – 12 - Poorly graded fine SAND			ppm
				EOB @ 12' bgs						

TYPE OF DRILLING RIG:	Geo-probe (track-mounted)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-204	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BA2-205
PROJECT NO.:	N4106-0320		START DATE: 5/8/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/8/03
DRILLED BY (Company/Driller):	ADT/Scott		MON. WELL NO.: NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.8 / 2.0	OU6-SO-BA2-205-0002 1605	Fill			0 – 0.3 - Topsoil with roots		Moist asphalt at 2' bgs	0.0 FID
2						Brown	0.3-1.8-Well graded SAND with some gravel and black staining	SW		
		1.6 / 2.0	OU6-SO-BA2-205-0204 1610			Dark Gray	Medium SAND with 1-2" gravel, steel bar	SP		0.0 FID
4										
		1.6 / 2.0	OU6-SO-BA2-205-0406 1612			Gray - Brown	Medium SAND with some fines, (Black streaks, few gravel)			
6										
		0.9 / 2.0	OU6-SO-BA2-205-0608 1620			Brown	Poorly sorted medium SAND with some gravel		Moist, 2" gravel in spoon nose	0.0 FID
8									Saturated ~ 7.5' bgs	
		1.6 / 2.0	OU6-SO-BA2-205-0810 1625			Tan	Poorly sorted medium-coarse SAND with gravel			0.0 FID
10										
		1.6 / 2.0	OU6-SO-BA2-205-1012 1630			Tan	10 – 11.8 - Black areas, poorly sorted medium/coarse SAND			0.0 FID
12						Black	11.8 – 12 - Same as above but black			
		0.8 / 2.0	OU6-SO-BA2-205-1214 1640			Black	Medium-coarse SAND and gravel		Hole caved in during sampling-only sent black portion for analysis	
14										
				EOB @ 14' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-205	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	BA2-205A
PROJECT NO.:	N4106-0320			START DATE:	5/15/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/15/03
DRILLED BY (Company/Driller):	ADT/ Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.7 / 2.0	OU6-SO-BA2-205A-0002 1235/1240				0 – 0.5 - Turf with topsoil recovered Asphalt, black streaks/sludge?		Dry	N R
2						Gray	0.5 – 1.7 - Well graded fine-coarse SAND with gravel	SW		
		1.8 / 2.0	OU6-SO-BA2-205A-0204 1245		Loose		2 – 3.5 - Same as above with asphalt		Slightly Moist	
4					Medium Loose	Brown	3.5 – 3.8 - Poorly graded medium SAND some black streaks	SP		
		1.8 / 2.0	OU6-SO-BA2-205A-0406 1320				4 – 4.4 -Same as above			
6				EOB @ 4.4' bgs		Brown	4.4 – EOB – poorly graded medium SAND with some gravel	SP		
							FULL SUITE SAMPLING			
							Duplicate collected from 0 – 2' interval			

TYPE OF DRILLING RIG:	Geo-probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T			
METHOD OF SOIL SAMPLING:	Grab Using Macro-core			
METHOD OF ROCK CORING:	N/A			
GROUNDWATER LEVELS:	N/A			
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.:	BA2-205A	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	BA2-206
LOGGED BY:	K. O'Neill	START DATE:	5/9/03
TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/9/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.5 / 2.0	OU6-SO-BA2-206-0002 0820	Fill			0 – 0.2 - Turf grass 0.2 – 0.9 – poorly graded medium SAND	SP	Moist Fill	
2						Brown	0.9 – 1.5 - poorly graded medium SAND with glass, brick fragments			
		1.4 / 2.0	OU6-SO-BA2-206-0204 0825				Poorly graded medium SAND and asphalt with black		Saturated approximately 4 ft.	
4							Stained areas			
		1.3 / 2.0	OU6-SO-BA2-206-0406 0830				Poorly graded SAND with some 1 – 1.5" gravel		Saturated	
6							Fine-medium SAND			
		1.2 / 2.0	OU6-SO-BA2-206-0608 0835				Poorly graded medium SAND some fines			
8										
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using marco-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-206	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	BA2-207
LOGGED BY:	K. O'Neill	START DATE:	5/9/03
DRILLED BY (Company/Driller):	ADT/ Scott	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/9/03
GRD. SURFACE ELEVATION:		MON. WELL NO.:	N/A
ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-BA2-207-0002 0900			Brown Tan	0 – 0.3 - Turf grass 0.3 – 1.6 - Poorly graded medium SAND with some gravel	SP	Moist	0.0 FID
2										
		1.6 / 2.0	OU6-SO-BA2-207-0204 0905				Poorly graded medium SAND, some ¾ - 2" gravel		Moist Concrete found in sample	
4										
		1.8 / 2.0	OU6-SO-BA2-207-0406 0910				Poorly graded medium SAND with black streaking, some gravel		Wet @ 5.5' bgs	0.0
6										
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-207	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-208
PROJECT NO.:	N4106-0320	START DATE:	5/9/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/9/03
DRILLED BY (Company/Driller):	ADT/ Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.7 / 2.0	OU6-SO-BA2-208-0002	Fill		Tan	0 – 0.3-Turf grass 0.3 – 1.0-Poorly graded medium SAND, some gravel	SP	Moist	0.2 FID In bowl
2			0955			Brown - Gray	1.0 – 1.7-Fine poorly graded SAND, some gravel & fibers*			0.0 in breathing zone
		1.4 / 2.0	OU6-SO-BA2-208-0204			Brown	0 – 0.8-Poorly graded medium SAND		Moist *potential asbestos	0.0 PID
4			1000			Brown	0.8 – 1.4-similar to above, with some gravel and fines*			
		1.3 / 2.0	OU6-SO-BA2-208-0406			Brown	0 – 1.3-Poorly graded medium SAND appears native soils		Saturated @ 4.5' bgs	
6			1015							
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-208	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-209
PROJECT NO.:	N4106-0320	START DATE:	5/9/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/9/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.9 / 2.0	OU6-SO-BA2-209-0002 1045			Brown	0 – 0.2 - Poorly graded fine-medium SAND	SP		
2						Tan	0.2 – 1.9 – same as above	↓		
		1.9 / 2.0	OU6-SO-BA2-209-0204 1055			Tan	Medium poorly graded SAND			
4				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-209	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	BA2-210
PROJECT NO.:	N4106-0320			START DATE:	5/9/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LJD	COMPLETION DATE:	5/9/03
DRILLED BY (Company/Driller):	ADT/ Dan G.			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.9 / 2.0	OU6-SO-BA2-210-0002 1120			Brown	0 – 0.3 - Poorly graded medium SAND	SP	Moist	0.2 FID
2						Tan	0.3 – 1.9 – same as above			0.0 PID
		1.6 / 2.0	OU6-SO-BA2-210-0204 1130			Tan	Poorly graded medium SAND	SP	Moist	0.0 PID
4				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-210	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BA2-211
PROJECT NO.:	N4106-0320		START DATE: 5/9/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/9/03
DRILLED BY (Company/Driller):	ADT/ Scott		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.7 / 2.0	OU6-SO-BA2-211-0002 1150			Brown	0 – 0.4-Turf grass 0.4 - 1.7-Fine poorly graded SAND	SP		0.0 ppm PID
2						Tan	Poorly graded medium SAND, with dark streaking			
		1.8 / 2.0	OU6-SO-BA2-211-0204 1155			Tan	0 – 0.7-Poorly graded medium SAND		Moist	0.0 ppm PID
4							0.7 – 1.8-similar to above, with dark streaking		Wet	
		1.8 / 2.0	OU6-SO-BA2-211-0406 1200			Tan	Poorly graded medium SAND		Saturated @ approximately 5' bgs	0.0 ppm PID
6										
				EOB @ 6' bgs			Appears native			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-211	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6		BORING NO.: BA2-212
PROJECT NO.:	N4106-0320		START DATE: 5/1/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/1/03
DRILLED BY (Company/Driller):	ADT/ Dan G.		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.6 / 2.0	OU6-SO-BA2-212-0002 1350	Fill	Medium Dense	Brown	0 – 0.2 - Topsoil with turf 0.2 – 1.0 - Poorly graded medium SAND, some gravel	SP	Moist Fill	0.0 PID
2							1.0 – 1.3 - ASPHALT 1.3 – 1.6 - Fine – medium well graded SAND	SW		
		1.9 / 2.0	OU6-SO-BA2-212-0204 1405			Dark Gray	0 – 0.3 - Same as above	SW	Saturated @ 3' bgs	
4						Gray	0.3 – 1.7 - PEAT with fines 1.7 – 1.9 - Well graded fine – coarse SAND	PT SW		
				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-212	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-213
PROJECT NO.:	N4106-0320	START DATE:	5/25/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/25/03
DRILLED BY (Company/Driller):	ADT/ Dan G.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL
TRANSCRIBED BY:	LJD	ELEVATION FROM:	

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.9 / 2.0	OU6-SO-BA2-213-0002 1425			Brown	0 – 0.2 - Topsoil with turf discarded 0.2 – 1.8 - Silty SAND (fine), dense	SM		
2							1.8 – 1.9 - PEAT	PT		
		1.8 / 2.0	OU6-SO-BA2-213-0204 1430		Dense	Dark Gray	Silty fine sand in PEAT	PT	Decomposed, Wet ~ 3' bgs	
4				EOB @ 4' bgs						

TYPE OF DRILLING RIG:	Goe-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-213	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-214
PROJECT NO.:	N4106-0320	START DATE:	5/15/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/15/03
TRANSCRIBED BY:	LJD	MON. WELL NO.:	N/A
DRILLED BY (Company/Driller):	ADT/D. Gooley	CHECKED BY:	TD/JL
GRD. SURFACE ELEVATION:		ELEVATION FROM:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.3 / 2.0	OU6-SO-BA2-214-0002 1500		Loose	Brown	0 – 1.0 - Well graded medium-coarse SAND, some gravel	SW	Slightly moist	0.0 ppm PID
2							1.0 – 1.3 - Poorly graded medium SAND	SP		
		1.7 / 2.0	OU6-SO-BA2-214-0204 1505		Loose		0 – 0.6 - Same as above		Piece of plastic @ 1.6	0.0 PID
4					Dense Loose		0.6 – 1.6 - Poorly graded fine SAND, some silt 1.6–1.7 -Poorly graded medium-coarse SAND , some ¾" gravel	SM/ SP		
		1.6 / 2.0	OU6-SO-BA2-214-0406 1510				0 – 0.2 - Same as above		Wet at 5.5' bgs	
6					Dense	Tan/ Dark gray	0.2 – 0.7 - Poorly graded fine SAND, some gravel 0.7 – 1.6 - Poorly graded fine-medium SAND, some fines and gravel	SP/ SM		
		1.6 / 2.0	OU6-SO-BA2-214-0608 1520		Dense		Poorly graded medium SAND, some fine-coarse gravel	SP	Saturated @ ~ 6' bgs	0.0 PID
8										
		1.7 / 2.0	Not Sampled		Dense		Well graded fine-coarse SAND, some fine coarse gravel	SW		
10										
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-probe (track-mounted)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BPA-214	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-215
PROJECT NO.:	N4106-0320	START DATE:	5/15/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/15/03
TRANSCRIBED BY:	LJD	MON. WELL NO.:	N/A
DRILLED BY (Company/Driller):	ADT/ Dan G.	CHECKED BY:	TD/JL
GRD. SURFACE ELEVATION:		ELEVATION FROM:	

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.3 / 2.0	OU6-SO-BA2-215-0002 1550	Fill			0 – 0.4 - Poorly graded fine SAND, some silt	SM	Dry	0.0 ppm
2					Loose	Brown	0.4 - 1.3 - Construction debris, concrete, brick, coarse gravel		Fill	PID
		1.6 / 2.0	OU6-SO-BA2-215-0204 1600			Red	0 – 0.4 - Construction debris, brick 0.4 – 1.3 - Poorly graded fine SAND with some gravel some fines	SP		
4						Dark Gray	1.3 – 1.6 - Well graded fine-coarse SAND, some fines and gravel	SW	Saturated @ 3.5'	
		1.6 / 2.0	OU6-SO-BA2-215-0406 1610		Dense	Dark Gray	0 – 1.0 - Same as above			0.0 ppm
6						Gray	1.0 – 1.2 - PEAT 1.2 – 1.6 - Well graded fine-coarse SAND	PT SW		PID
				EOB @ 6' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A, location on opposite side of stream near last light.	BORING NO.: BA2-215	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-216
PROJECT NO.:	N4106-0320	START DATE:	5/15/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/15/03
DRILLED BY (Company/Driller):	ADT/D. Gooley	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	JD/JL

TRANSCRIBED BY: LJD

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.3 / 2.0	OU6-SO-BA2-216-0002 1635	Fill		Brown	0 – 0.5 - Topsoil and turf grass removed 0.5 – 1.5 - Poorly graded fine SAND, some gravel	SP	Dry	
2						Gray/ Brown	1.5 – 1.8 - Well graded fine-coarse SAND, some fine-coarse gravel	SW	Asphalt	
		1.7 / 2.0	OU6-SO-BA2-216-0204 1640		Loose	Brown	0 – 1.1 - Gravely SAND fill	SW	Gravel lenses	0.0 PID
4						Dark Gray	1.1 – 1.7 - Silty fine-medium SAND with black streaks	SM		
		1.6 / 2.0	OU6-SO-BA2-216-0406 1650		Loose	Dark Gray	Well graded fine-coarse SAND, some gravel, Black areas of fine sand	SW	Slightly moist fill	
6									Wet @ 6'	
		1.6 / 2.0	OU6-SO-BA2-216-0608 1655		Loose		0 – 1.3 - Same as above		Saturated @ 6.5' bgs	
8							1.3 – 1.7 - Well graded fine-coarse SAND			
		1.7 / 2.0	OU6-SO-BA2-216-0810 1700				Same as above		Saturated	
10										
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-probe (track-mounted)
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using macro-core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	N/A
OTHER OBSERVATIONS:	Instrument Group: A

BORING NO.: BA2-216

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-217
PROJECT NO.:	N4106-0320	START DATE:	5/15/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/15/03
TRANSCRIBED BY:	LJD	MON. WELL NO.:	N/A
DRILLED BY (Company/Driller):	ADT/D. Gooley	CHECKED BY:	JD/JL
GRD. SURFACE ELEVATION:		ELEVATION FROM:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.4 / 2.0	OU6-SO-BA2-217-0002		Loose	Brown Light tan	0 – 0.6 - Topsoil/turf removed 0.6 – 1.2 - Poorly graded SAND fine-medium gravel	SP	Dry	0.0 PID
2			1720			Black	1.2 – 1.4 - Poorly graded fine-medium SAND w/fines	SM	Moist	
		1.4 / 2.0	OU6-SO-BA2-217-0204			Dark Gray	0 – 0.9 - Poorly graded fine-medium SAND w/fine-coarse gravel	SP		
4			1725			Brown/ Gray	0.9 – 1.4 - Same as above with gravel lenses	↓		
		1.0 / 2.0	OU6-SO-BA2-217-0406		Loose		0 – 0.2 - Same as above	↓	Saturated @ 4' bgs	0.0 PID
6			1730		Dense	Dark Gray	0.2 – 0.7 - Poorly graded fine SAND w/fines 0.7 – 1.0 - Poorly graded fine SAND in PEAT	SM PT		
		1.6 / 2.0	OU6-SO-BA2-217-0608				Organic clayey silt	OH		
8			1735		↓					
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-probe (track-mounted)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: A	BORING NO.: BA2-217	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-218
PROJECT NO.:	N4106-0320	START DATE:	5/21/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/21/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-BA2-218-0002 0918	Reworked Native Material	Medium	Black/ gray	Top 3" topsoil Silty SAND, some PEAT and organics, moist	SM		0.0
2										
			OU6-SO-BA2-218-0204 0925		Loose		Poorly graded SAND, saturated	SP	GW @ 2.5' 2-3' saturated Wet	0.0
4							3-4' organic CLAY with brick fragments	OH		
			OU6-SO-BA2-218-0406 0935		Medium		4-5' silty SAND with brick fragments	SM	Saturated	0.0
6				Native Material			5-6' poorly graded SAND, some silt and clay and roots	SP		
			OU6-SO-BA2-218-0608 0945				Silty SAND, some roots and gravel	SM	saturated, petroleum odor	3.9 PID 3.9 FID
8										
				EOB @ 8' bgs			Native material from 5-8'			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using marco-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: BA2-218	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-219
PROJECT NO.:	N4106-0320	START DATE:	5/21/03
LOGGED BY:	M. Bouvier	COMPLETION DATE:	5/21/03
TRANSCRIBED BY:	LJD		
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	JD/JL
ELEVATION FROM:			

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-BA2-219-0002	Fill	Loose	Brown/ Black	Poorly graded SAND with some silt, coarse sand and Asbestos waste in black clay like substance Fragments of brick	SP/ SM	Reworked native material with man made waste	0.0
2			1020						Wet	0.0
			OU6-SO-BA2-219-0204			Black	Poorly graded GRAVEL (reworked) with brick fragments and concrete	GP	Reworked native material with man made materials	0.0
4			1040				Rubble fragments		saturated 1 foot of water in sleeve	0.0
			OU6-SO-BA2-219-0406				4' – 5.5' - similar to above		2" of water in sleeve	0.0
6			1055	PEAT			5.5' – 6' - PEAT saturated. High organic content	PT		0.0
			OU6-SO-BA2-219-0608		Medium	Black/ Brown	PEAT similar to above, very high organic content	PT		0.0
8			1105							0.0
				EOB @ 8' bgs			Organic native PEAT from 5.5 – 8'			

TYPE OF DRILLING RIG:	Geo-probe (track-mounted)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: D – collected duplicate for ASB & PB/cu @ 1025	BORING NO.: BA2-219	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-220
PROJECT NO.:	N4106-0320	START DATE:	5/29/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/29/03
TRANSCRIBED BY:	LJD	MON. WELL NO.:	N/A
DRILLED BY (Company/Driller):	ADT/Scott	CHECKED BY:	TD/JL
GRD. SURFACE ELEVATION:		ELEVATION FROM:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.2 / 2.0	OU6-SO-BA2-220-0002 1615	Fill	Loose	Brown	0 – 0.3 - Vegetation and roots removed 0.3-0.8-Poorly graded fine-medium SAND, some silt and fill, wood, plastic and brick	SP	Fill	0.0
2						Gray	0.8 – 1.0 - Ground up white plastic 1.0 – 1.2 - Poorly graded fine-medium SAND w/silt			PID
		1.8 / 2.0	OU6-SO-BA2-220-0204 1625				0 – 0.6 - Fine SAND, some silt		Saturated @ 3' Fill	
4							0.6 – 1.8 - Poorly graded medium SAND			
		1.5 / 2.0	OU6-SO-BA2-220-0406 1635				0 – 0.5 - Similar to above			0.0
6					Dense	Gray/ Brown	0.5 – 1.5 - Organic silt with some fine sand in PEAT	PT		PID
			No sample from 6' – 8'				Silty PEAT	PT		
8										
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using marco-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: B, location opposite side of stream by a "no dumping" sign.	BORING NO.: BA2-220	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-221
PROJECT NO.:	N4106-0320	START DATE:	5/29/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/29/03
DRILLED BY (Company/Driller):	ADT/ Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL
	TRANSCRIBED BY: LJD	ELEVATION FROM:	

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.3 / 2.0	OU6-SO-BA2-221-0002 1700	Fill			0 – 0.3 - Vegetation and roots removed 0.3 – 1.3 - Poorly graded fine-medium SAND with angular gravel	fill	Saturated @ 0.5'	0.0
2					Loose					PID
		1.0 / 2.0	OU6-SO-BA2-221-0204 1705				Poorly graded medium-coarse SAND with some Fine-coarse gravel	SP		
4										
		1.5 / 2.0	OU6-SO-BA2-221-0406 1710				0 – 1.0 - Similar to above	SP		0.0
6							1.0 – 1.5 - Silty PEAT with decayed reed stems	PT		PID
				EOB @ 6' bgs In PEAT						
							Native @ approximately 5.8' bgs			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab Using Macro-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: BA2-221	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-222
PROJECT NO.:	N4106-0320	START DATE:	5/29/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/29/03
TRANSCRIBED BY:	LJD	MON. WELL NO.:	N/A
DRILLED BY (Company/Driller):	ADT/ Scott	CHECKED BY:	TD/JL
GRD. SURFACE ELEVATION:		ELEVATION FROM:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
		1.5 / 2.0	OU6-SO-BA2-222-0002 1730	Fill			Vegetation removed Fine-medium SAND, with some silt and fine-coarse gravel	SP	Fill	0.0 PID
2					Loose					
		1.7 / 2.0	OU6-SO-BA2-222-0204 1735				0 – 0.7 - Similar to above with asphalt pieces		Fill	
4							0.7 – 1.7 - Fine SAND, some silt, some roots @ 1.5 – 1.7'			
		1.7 / 2.0	OU6-SO-BA2-222-0406 1740				0 – 0.2 - Organic SILT, trace fine sand	OL	Native	0.0
6							0.2 – 1.7 – Organic SILT, some PEAT, trace fine sand			PID
				EOB @ 5.5' bgs Refusal						
							Native peaty silt @ approximately 4.2' bgs			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Macro-Core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: BA2-222	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	BA2-223
PROJECT NO.:	N4106-0320	START DATE:	5/29/03
LOGGED BY:	K. O'Neill	COMPLETION DATE:	5/29/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL
TRANSCRIBED BY:	LJD	ELEVATION FROM:	

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.6 / 2.0	OU6-SO-BA2-223-0002 1800	Fill		Brown	0 - 1.6 - Poorly graded fine-medium SAND with some fine-coarse gravel	SP	Slightly moist	0.0 PID
2										
		1.8 / 2.0	OU6-SO-BA2-223-0204 1805			Brown/gray	Poorly graded medium SAND with fine-coarse gravel		Saturated ~ 2.5' Petroleum odor	0.0 FID
4										
		1.2 / 2.0	OU6-SO-BA2-223-0406 1810			Brown White	0 – 0.3 - Slight Black streaking Similar to above 0.3 – 0.8 - Broken rock (quartz)			
6						Brown	0.8 - 1.2 - Poorly graded medium SAND with fine-coarse gravel			
		1.9 / 2.0	OU6-SO-BA2-223-0608 1815			Gray	0 – 0.7 - Organic SILT	OH	No petroleum odor	0.0 FID
8						Brown	0.7 – 1.9 - Silty PEAT	PT		
				EOB @ 8' bgs			Native Material @ 6' bgs			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T		
METHOD OF SOIL SAMPLING:	Grab using marco-core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	N/A		
OTHER OBSERVATIONS:	Instrument Group: B	BORING NO.: BA2-223	PAGE: 1 OF 1

TtNUS Form 0018

WOOSTER PARK

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-101
PROJECT NO.:	N4106-0320	START DATE:	8/1/02 (1350)
LOGGED BY:		TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/1/02
DRILLED BY (Company/Driller):	ADT	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		1.8 / 2.0	OU6-SO-WP-101-0002	Silty Sand		Light brown	Silty Sand, mostly fine sand and silt, trace coarse sand, gravel & organics.	SM	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2			8/1/02 @ 1355							
3		1.3 / 2.0	OU6-SO-WP-101-0204	Broken rock			1.0 ft. fractured mica schist.	Broken rock	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
4 (1)			8/1/02 @ 1400	Silty Sand			0.3 ft. Silty Sand, mostly fine sand and silt.	SM		
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E1	BORING NO.: WP-101	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6		
PROJECT NO.:	N4106-0320	BORING NO.:	WP-102
LOGGED BY:	A. Roy	START DATE:	8/1/02 (0900)
DRILLED BY (Company/Driller):	ADT/A. Hurst	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/1/02 (0930)
GRD. SURFACE ELEVATION:		MON. WELL NO.:	NA
ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
1		2.0 / 2.0	OU6-SO-WP-102-0002	Sand			1.5' – poorly graded sand, mostly med. to fine sand, w/little coarse sand, trace gravel & silt.	SP	Dry, no man-made material noted in sample.	PID = 27.0 FID = 102
2			8/1/02 @ 0915	sandy Silt			0.5' - sandy Silt, mostly silt w/some f. sand, trace gravel.	ML		
3		1.9 / 2.0	OU6-SO-WP-102-0204				↓		Moist, no man-made material noted in sample.	PID = 0.0 FID = 328
4 (1)			8/1/02 @ 0920				↓	↓		
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe
METHOD OF ADVANCING BORING:	DPT
METHOD OF SOIL SAMPLING:	Grab using Macro-Core
METHOD OF ROCK CORING:	NA
GROUNDWATER LEVELS:	NA
OTHER OBSERVATIONS:	Instrument Group: E

Tetra Tech NUS, Inc.

BORING NO.: WP-102

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-103
PROJECT NO.:	N4106-0320	START DATE:	8/1/02 (0930)
LOGGED BY:	A. Roy	COMPLETION: DATE:	8/1/02 (0945)
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		CHECKED BY:	KJ 10/14/02
TRANSCRIBED BY:	LJD	ELEVATION FROM:	

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.9 / 2.0	OU6-SO-WP-103-0002	Sand		Brown	Poorly graded sand, mostly fine to med. sand w/little coarse sand, trace gravel & silt.	SP	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2			8/1/02 @ 0935							
3		1.3 / 2.0	OU6-SO-WP-103-0204							PID = 0.0 FID = 0.0
4 (1)			8/1/02 @ 0940							
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-103	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-104
PROJECT NO.:	N4106-0320	START DATE:	8/1/02
LOGGED BY:		TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/1/02
DRILLED BY (Company/Driller):	ADT	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.4 / 2.0	OU6-SO-WP-104-0002	Silty Sand		Brown	Silty Sand, mostly fine sand and silt, trace coarse sand, gravel and organics.	SM	Dry, no man-made materials, fractured rock noted in sample.	PID = 0.0 FID = 0.0
2			8/1/02 @ 1420							
3		1.1 / 2.0	OU6-SO-WP-104-0204						Dry, no man-made material noted.	PID = 0.0 FID = 0.0
4 (1)			8/1/02 @ 1425							
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-104	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-105
PROJECT NO.:	N4106-0320	START DATE:	7/31/02 (1606)
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 7/31/02 (1620)
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Sand and gravel			
1		1.5 / 2.0	OU6-SO-WP-105-0002	Silty Sand		Light brown	Silty Sand. Mostly silt and fine sand, trace coarse sand & organics.	SM	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2			7/31/02 @ 1615							
3		1.4 / 2.0	OU6-SO-WP-105-0204	Fine Sand			Sand. Mostly fine sand, trace med. sand & coarse sand, poorly graded	SP	Dry, no man-made material noted.	PID = 0.0 FID = 0.0
4 (1)			7/31/02 @ 1620							
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-105	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6			BORING NO.:	WP-106
PROJECT NO.:	N4106-0320			START DATE:	7/31/02 (1630)
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	7/31/02 (1645)
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0							Sand, gravel, and organic matter			
1		1.15 / 2.0	OU6-SO-WP-106-0002	Silty Sand		Light brown	Silty Sand-mostly fine sand and silt, trace coarse sand & organics.	SM	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2			7/31/02 @ 1635			↓	↓	↓	↓	
3		1.4 / 2.0	OU6-SO-WP-106-0204	Coarse-Medium Sand		↓	Sand - Trace Silt (poorly graded, mostly coarse to medium sand, little fine sand)	SP	↓	PID = 0.0 FID = 0.0
4 (1)			7/31/02 @ 1640			↓	↓	↓	↓	
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-106	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 4 ft., no man-made material noted in sample

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-107
PROJECT NO.:	N4106-0320	START DATE:	8/1/02 (1025)
LOGGED BY:	A. Roy	TRANSCRIBED BY: LJD	COMPLETION: DATE: 8/1/02 (1045)
DRILLED BY (Company/Driller):	ADT/A. Hurst	MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.8 / 2.0	OU6-SO-WP-107-0002	Silty Sand		Light brown	Silty Sand, mostly fine sand and silt, trace coarse sand and gravel, trace organics.	SM	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2			8/1/02 @ 1035							
3		1.3 / 2.0	OU6-SO-WP-107-0204							PID = 0.0 FID = 0.0
4 (1)			8/1/02 @ 1040							
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-107	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6			BORING NO.:	WP-108
PROJECT NO.:	N4106-0320			START DATE:	8/1/02 (1225)
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/1/02 (1240)
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.65 / 2.0	OU6-SO-WP-108-0002	Silty Sand			Silty Sand, mostly fine sand and silt, trace coarse sand, gravel, and organics.	SM	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2			8/1/02 @ 1230							
3		0.7 / 2.0	OU6-SO-WP-108-0204							PID = 0.0 FID = 0.0
4 (1)			8/1/02 @ 1235							
				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-108	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6			BORING NO.:	WP-109
PROJECT NO.:	N4106-0320			START DATE:	8/1/02 (1140)
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/1/02 (1155)
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.3 / 2.0	OU6-SO-WP-109-0002	Silty Sand			Silty sand, mostly fine sand and silt, trace coarse sand, gravel, and organics.	SM	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2			8/1/02 @ 1145							
3		1.5 / 2.0	OU6-SO-WP-109-0204							PID = 0.0 FID = 0.0
4 (1)			8/1/02 @ 1150	BOE						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-109	PAGE: 1 OF 1

1. Bottom of Exploration (B.O.E.) at 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6			BORING NO.:	WP-110
PROJECT NO.:	N4106-0320			START DATE:	8/1/02 (1100)
LOGGED BY:	A. Roy	TRANSCRIBED BY:	LJD	COMPLETION: DATE:	8/1/02 (1110)
DRILLED BY (Company/Driller):	ADT/A. Hurst			MON. WELL NO.:	NA
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	KJ 10/14/02

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
1		1.3 / 2.0	OU6-SO-WP-110-0002 (1) 8/1/02 @ 1105	Silty Sand		Brown	Silty Sand, mostly fine sand and silt, trace coarse sand, and organics.	SM	Dry, no man-made material noted in sample.	PID = 0.0 FID = 0.0
2										
3		1.4 / 2.0	OU6-SO-WP-110-0204 8/1/02 @ 1110							PID = 0.0 FID = 0.0
4 (2)				B.O.E.						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	DPT		
METHOD OF SOIL SAMPLING:	Grab using Macro-Core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: E	BORING NO.: WP-110	PAGE: 1 OF 1

1. Confirmatory sample collected from 0-2 ft. interval.
2. Bottom of Exploration (B.O.E.) @ 4.0 ft., no man-made material noted in sample.

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-201
PROJECT NO.:	N4106-0320	START DATE:	5/20/03
LOGGED BY:	M. Bouvier	COMPLETION DATE:	5/20/03
TRANSCRIBED BY:	LAH		
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL
ELEVATION FROM:			

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-WP-201-0002	Fill	Loose	Brown/ Black	0-5" - topsoil	Fill	Dry	0.0
2			1201				Fill with sandy soil, asphalt, trace roots and gravel			
			OU6-SO-WP-201-0204			Black	Fill with sandy soil, asphalt, trace roots and gravel	Fill	Dry	0.0
4			1230				3.5 – 4'- dark crumbly clay-like material w/ asbestos chunks/fibers			
			OU6-SO-WP-201-0406		Dense	Black Black/gray	4-4.5' similar to above, saturated 4.5-6' dark silty CLAY, trace coarse sand		Fibers very long and shiny GW @ 4' Moist	
6			1305	Native				ML/OL		
				EOB @ 6' bgs						0.0
							Native material 4.5-6'			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D Took co-located dup for "full suite" 0002 1206 hrs	BORING NO.: WP-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-202
PROJECT NO.:	N4106-0320	START DATE:	5/20/03
LOGGED BY:	M. Bouvier	COMPLETION DATE:	5/20/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL

TRANSCRIBED BY: LAH

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-WP-202-0002	Fill	Loose	Dark Brown/ Black	top 4" topsoil	SP	Dry	0.0
2			1345				Fill material: poorly graded SAND with silt. Brick fragments, coal and asphalt		Silty sand @ end 2' of boring	↓
			OU6-SO-WP-202-0204	Native Material	Medium		Poorly graded fine SAND with trace silt		Moist	0.0
4			1348					↓		↓
				EOB @ 4' bgs						
							Native material from 2-4'			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: WP-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-203
PROJECT NO.:	N4106-0320	START DATE:	5/20/03
LOGGED BY:	M. Bouvier	COMPLETION DATE:	5/20/03
TRANSCRIBED BY:	LAH		
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL
ELEVATION FROM:			

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-WP-203-0002	Reworked Native Material	Loose	Light Brown	Top 3" topsoil	SP (fill)	Reworked native material Dry	0.0
2			1405		↓		Reworked native material consisting of poorly graded SAND trace roots and angular gravel			
			OU6-SO-WP-203-0204	Native Material	Medium	Dark Brown/	Organic CLAY, trace wood and plant material (PEAT)	OL/ ML	Moist	0.0
4			1410		↓	Black	3.8 – 4.0 – similar to above, trace coarse sand			
			OU6-SO-WP-203-0406		↓	Black/ gray	Silty CLAY w/ large coarse gravel and coarse sand. Trace organic material	OL	Native material Moist	
6			1415							
				EOB @ 6' bgs						
							Native material 2-6'			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: WP-203	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	WP-204
PROJECT NO.:	N4106-0320	START DATE:	5/20/03
LOGGED BY:	M. Bouvier	COMPLETION DATE:	5/20/03
DRILLED BY (Company/Driller):	ADT/Scott	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	TD/JL

TRANSCRIBED BY: LAH

ELEVATION FROM:

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-WP-204-0002	Native	Loose	Dark brown	0-6" - Topsoil 6-24" - Silty SAND with organics and roots	SM	Dry	
2			1532							
			OU6-SO-WP-204-0204				Poorly graded coarse SAND with trace silt and organics	SP/ SM		
4			1547							
				EOB @ 4' bgs						
							Native material 0-4'			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: WP-204	PAGE: 1 OF 1

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BORING LOG FOR:	Raymark OU6			BORING NO.:	WP-205
PROJECT NO.:	N4106-0320			START DATE:	5/20/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/20/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-WP-205-0002	Native	Loose	Light brown	Silty SAND with some roots and round gravel	SM	Native Dry	0.0
2			1615				↓			0.0
			OU6-SO-WP-205-0204		Loose		2 – 3.5' - silty SAND similar to above with poorly graded sand	SP-SM	Native Dry	0.0
4			1625		Medium		3.5 – 4.0' - dark brown silty SAND with some clay		Moist @ 3.5 ft.	
				EOB @ 4' bgs						
							Native material 0-4'			

TYPE OF DRILLING RIG:	Geo-Probe			*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.			
METHOD OF SOIL SAMPLING:	Grab using macro-core			
METHOD OF ROCK CORING:	NA			
GROUNDWATER LEVELS:	NA			
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.:	WP-205	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	WP-206
PROJECT NO.:	N4106-0320			START DATE:	5/20/03
LOGGED BY:	M. Bouvier	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/20/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD/JL

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
			OU6-SO-WP-206-0002	Reworked Native Material	Loose	Gray/ Black	0 – 6" - 3-4" riprap 6 – 24" - Poorly graded medium sand	SP	Dry Fill	0.0
2			1640						Poor recovery (rock)	
			OU6-SO-WP-206-0204				Poorly graded medium sand, trace mica		Fill	0.0
4			1648							
			OU6-SO-WP-206-0406				No recovery on 4-6'		**No recovery**	
6			**No Recovery**							
			OU6-SO-WP-206-0608	Native Material	Loose	Gray/ Black	6 – 6.5' - Similar to 2-4' sample 6.5 - 8' - Silty sand, trace roots, some gravel (round)	SP	Moist	0.0
8			1704							0.0
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: WP-206	PAGE: 1 OF 1

TtNUS Form 0018

35 THIRD AVENUE

BORING LOG FOR:	Raymark OU6	BORING NO.:	3A35-201
PROJECT NO.:	N4106-0320	START DATE:	5/28/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/28/03
DRILLED BY (Company/Driller):	ADT/Scott P.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6" N/A	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		1.1 / 2.0	OU6-SO-3A35-201-0002 0850		Slight	Light	Fine-medium SAND, some silt	SP		PID/FID
2					Dense	Brown	Fine-coarse SAND, trace silt	SW		
		1.3 / 2.0	OU6-SO-3A35-201-0204 0855		2.5'	Black	Asphalt, broken pieces			0.0 / 0.0
4						Light Brown	Fine-coarse SAND, some gravel	SW		
		1.0 / 2.0	OU6-SO-3A35-201-0406 0900			Dark Brown	Fine-coarse SAND, trace silt	SW	Wet, water in sleeve	
6						Dark Brown	Fine-medium SAND and SILT	SM	Also organics roots and	
		1.4 / 2.0	OU6-SO-3A35-201-0608 0905			Dark	SILT, some fine sand	ML	Wood fragments, organic odor	
8						Brown				0.0 / 0.0
				EOB @ 8' bgs						

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: 3A35-201	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	3A35-202
PROJECT NO.:	N4106-0320	START DATE:	5/28/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY: LJD	COMPLETION DATE: 5/28/03
DRILLED BY (Company/Driller):	ADT/Scott P.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET) 0	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
		N/A	OU6-SO-3A35-202-0002 1030		Slight	Light Brown	SILT, some fine sand, trace gravel	ML	Moist	PID/FID
2					Dense		↓			
		1.2 / 2.0	OU6-SO-3A35-202-0204 1040			Light Brown	SILT, trace fine sand, trace gravel	ML	Brick fragment at 3'	0.0
4							↓			
		1.5 / 2.0	OU6-SO-3A35-202-0406 1050				↓		Tile (1" thick) at 5.5'	
6					5.6'	Black	Possible asphalt and copper pieces			
		1.8 / 2.0	OU6-SO-3A35-202-0608 1100			Light Brown	Fine-coarse SAND, some silt		Wet	0.0
8						Red-Brown	Deteriorated fabric or gasket material with small fibers throughout possible asbestos.		Plastic at 8'	
		1.5 / 2.0	OU6-SO-3A35-202-0810 1115							
10						Dark Brown	SILT, some organics (roots), trace fine sand	OL	Organic odor	
		1.5 / 2.0	OU6-SO-3A35-202-1012 1140				↓			
12							↓			
				EOB @ 12' bgs						

TYPE OF DRILLING RIG:	Geo-probe - hand auger first 0 -2'		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D, full suite samples taken here	BORING NO.: 3A35-202	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	3A35-203
PROJECT NO.:	N4106-0320	START DATE:	5/28/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/28/03
DRILLED BY (Company/Driller):	ADT/Scott P.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0	N/A									
		N/A	OU6-SO-3A35-203-0002 1215		0.5'	Dark Brown	Topsoil, fine-coarse SAND and SILT	SM	(organics – grass roots)	PID/FID 0.0
2					loose	Light Brown	Fine-coarse SAND and SILT, trace gravel	SM	Dry	
		1.5 / 2.0	OU6-SO-3A35-203-0204 1250			Light Brown	Fine-coarse SAND, some silt, some gravel	SW	Moist	
4			*co-located dup @ 1350						Cobble @ 4'	
		1.2 / 2.0	OU6-SO-3A35-203-0406 1310		4.2		Asphalt pieces		2" concrete lens @ 5.5'	
					Slightly loose	Black/red	brick			
6			*conf dup 04 @ 1400			Light Brown	Fine-coarse SAND, and gravel	SW		0.0
		1.0 / 2.0	OU6-SO-3A35-203-0608 1315						Wet – water in sleeve	
8						Dark Brown	SILT, red and wood fiber fragments	OL		
		1.5 / 2.0	OU6-SO-3A35-203-0810 1320							
10						Lt brown Dk brown	1" lens, fine SAND SILT, wood fragments	SP OL		0.0
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-probe– hand auger used for 0 -2' sample		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: 3A35-203	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6	BORING NO.:	3A35-204
PROJECT NO.:	N4106-0320	START DATE:	5/28/03
LOGGED BY:	J. Lambert	TRANSCRIBED BY: LAH	COMPLETION DATE: 5/28/03
DRILLED BY (Company/Driller):	ADT/Scott P.	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0	N/A									
		N/A	OU6-SO-3A35-204-0002 1430		Slightly Loose	Light Brown	Fine-coarse SAND and SILT, some gravel	SM		PID/FID
2							↓ FINES downward			
		2.0 / 2.0	OU6-SO-3A35-204-0204 1440			Light Brown	Fine SAND, some silt, trace gravel	SM	Cobble @ 3.3'	0.0
4							Fine-coarse SAND, trace silt, some gravel	SW		
		2.0 / 2.0	OU6-SO-3A35-204-0406 1450			Black	Fine SAND, pieces of concrete, some fibers	SP		
6										
		2.0 / 2.0	OU6-SO-3A35-204-0608 1500			Black	Same as above; also asphalt pieces			0.0
8										
		2.0 / 2.0	OU6-SO-3A35-204-0810 1510		Slightly Loose	Dark Brown	Fine-medium SAND, some gravel	SP		0.0
10					Slightly Dense	Light Brown	Fine SAND and SILT, organics (reed and root fragments)	OL		
				EOB @ 10' bgs						

TYPE OF DRILLING RIG:	Geo-probe– hand auger used for 0 -2' sample		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: 3A35-204	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	3A35-205
PROJECT NO.:	N4106-0320			START DATE:	5/28/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/28/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0	N/A									
		Hand Auger	OU6-SO-3A35-205-0002	N/A	Loose	Brown	Removed turf grass Silty medium SAND with fine-coarse gravel	SM	Moist	
2			1540	Fill						
		1.2 / 2.0	OU6-SO-3A35-205-0204		Loose	Brown	fine-coarse SAND with some silt and fine-coarse gravel			0.0
4			1550							PID
		1.4 / 2.0	OU6-SO-3A35-205-0406				0-0.2 - Similar to above 0.2-0.5 - Concrete lens			
6			1555				0.5-0.8 - See 2-4 interval above 0.8-1.0 - Asphalt lens (remainder is similar to 2-4')			
	No Sample	0.3 / 2.0	OU2-SO-3A35-205-0608		Very Loose	Dark Gray	fine-coarse GRAVEL with some sand			
8			Poor Recovery				Not enough fine material for sample, mostly GRAVEL			
	No Sample		OU2-SO-3A35-205-0810						Saturated	0.0
10			**No Recovery**							PID
		0.9 / 2.0	OU6-SO-3A35-205-1012				0 – 0.8 - Slough			Asbestos
12			1610				0.8-0.9 - Medium SAND with silt	SM	Asbestos only	Only
		1.4 / 2.0	OU6-SO-3A35-205-1214			Gray	0-0.7 - SILT with trace clay			
14			1612			Dark Gray	0.7-1.4 - SILT with fine sand and fine vegetation roots.			
				EOB @ 14' bgs			Native at 12' bgs			

TYPE OF DRILLING RIG:	Geo-probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group:	BORING NO.: 3A35-205	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6			BORING NO.:	3A35-206
PROJECT NO.:	N4106-0320			START DATE:	5/28/03
LOGGED BY:	K. O'Neill	TRANSCRIBED BY:	LAH	COMPLETION DATE:	5/28/03
DRILLED BY (Company/Driller):	ADT/Scott			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	TD

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]
0										
	Hand auger	N/A	OU6-SO-3A35-206-0002 1630	N/A	Loose	Brown	Turf grass removed		Slightly moist	0.0 PID
2						Black	Sandy loam, fine-med sand with some silt			
		1.8 / 2.0	OU6-SO-3A35-206-0204 1640			Gray	Fine-coarse SAND with angular gravel with asphalt intermixed		Fill Dry	
4					▼					
		1.7 / 2.0	OU6-SO-3A35-206-0406 1645		Loose		Similar to above with petroleum odor		Fill	0.1 PID
6					Loose	Gray				
		1.3 / 2.0	OU6-SO-3A35-206-0608 1650				0-0.5 - Similar to above		Saturated ~ 6' bgs	
8					Dense	Light Gray	0.5-1.3 - Fine-coarse SAND with trace gravel	SW	▼	
		0.4 / 2.0	OU6-SO-3A35-206-0810 1655	All		Brown	SILT with fine sand			
10					Dense	Gray				
				EOB @ 10' bgs			Native @ 7.8' bgs			

TYPE OF DRILLING RIG:	Geo-Probe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	D.P.T.		
METHOD OF SOIL SAMPLING:	Grab using macro-core		
METHOD OF ROCK CORING:	NA		
GROUNDWATER LEVELS:	NA		
OTHER OBSERVATIONS:	Instrument Group: D	BORING NO.: 3A35-206	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-301
PROJECT NO.:	N1369	START DATE:	5/19/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/19/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.6' / 2'	OU6-SO-3A35-301-0002 Screening 5/19/04 @ 1515		Loose	Dark Brown	0' – 0.3' – ROOT MAT (perlite or vermiculite material), organics, roots, twigs. Trace fine subrounded gravel to ½"		Topsoil; fill, dry – damp (raining)		
0.3										0.0	0.0
					Medium Dense	Brown	0.3' – 0.7' - SAND, some silt, trace gravel. Fine-medium sand, fines, fine subrounded gravel to ½" (2 pieces), organic material	SM	Damp; fill	0.0	0.0
0.7											
						Tan-Brown	0.7' – 1.6' - SAND, trace silt, fine-medium sand, poorly graded	SP	Damp – Wet Fill	0.3	0.0
1.6											
2									Partial recovery		
		1.7' / 2'	OU6-SO-3A35-301-0204 Screening 5/19/04 @ 1520		Dense	Brown	0' – 0.7' - SAND, some silt, trace gravel. Fine-medium, trace coarse sand, poorly graded, fine subangular gravel to ¼", coarse subangular gravel to 1 ½"	SM	Wet fill	0.0	0.0
2.7											
						Dark Brown - Black	0.7' – 1.7' – FILL - Brick, glass shards, charcoal clinkers, fibrous material, a-secular needle like fibers, (PACM), glass, concrete charred wood mixed with silty sand, some gravel	Fill	Possible PACM	39.8	
3.7											
4									Partial recovery		
		1.3' / 2'	OU6-SO-3A35-301-0406 Screening 5/19/04 @ 1540		Soft	Brown	0' – 0.3' – SILT, some fine-medium sand, trace roots	ML	Saturated, no man-made material	0.7	0.0
5					Medium Dense	Black-Brown	0.3' – 1.8' – FILL - Processed material, fibrous material, needle like fibers, mottled red coloration, spongy material	Fill	Possible PACM		
6							Charred wood at bottom, large chunks				

TYPE OF DRILLING RIG:	Geoprobe
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note:
PACM – Potential asbestos containing material

Tetra Tech NUS, Inc.

BORING NO.: 3A35-301

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS			BORING NO.:	3A35-301
PROJECT NO.:	N1369			START DATE:	5/19/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	5/19/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
										FID	**PID**
6	NA	2' / 2'	OU6-SO-3A35-301-0608 Screening 5/19/04 @ 1550		Soft	Black - Brown	0' – 1' – SILT, with brick pieces	ML	Saturated at 6'	4.7	0
7						Black	1' – 1.5' – GRAVEL, some silt, fine and coarse subangular gravel to 1 ½", fines, brick, charred wood	GM	Fill; saturated	45	0
8						Gray	1.5' – 2' – SILT, some clay, some organic material. Silt and clay sized particles, organic roots, reeds	OL/ OH	Native material, H_2S odor	58	0
				EOB @ 8' bgs			EOB @ 8' bgs – Backfill with bentonite chips (8' – 1') and topsoil (1' – 0')				

TYPE OF DRILLING RIG:	Geoprobe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique		
METHOD OF SOIL SAMPLING:	Macro-Core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-301	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-302
PROJECT NO.:	N1369	START DATE:	5/19/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/19/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.4' / 2'	OU6-SO-3A35-302-0002 Screening 5/19/04 @ 1605		Medium Dense	Red – Brown	0' – 0.5' – SAND, some silt, some organics, trace gravel. Fine-medium sand, trace coarse sand, poorly graded, fines, roots, twigs, fine and coarse subangular and subrounded gravel ½" – ¾"	SM	Damp topsoil	0	0
1											
						Brown	0.5' – 1' – Similar to above, with some gravel, roots	SM/ GM	Damp	0	0
2					Loose	Black	1' – 1.4' – SAND, fine-medium, poorly graded, some broken rock (schist), metal debris, glass, charred wood	Fill/ SP	Dry; fill, no visible PACM	0	0
		1.5' / 2'	OU6-SO-3A35-302-0204 Screening 5/19/04 @ 1615			Black – Brown	0' – 0.5' – SAND, some silt, some gravel. Fine to coarse sand, well graded, fine subangular gravel to ½"	SM	Damp No visible PACM, Man-made material	0	0
3						Gray	0.5' – 1' – CONCRETE, some pulverized, some to 1 ½"	Fill			
						Black	1' – 1.5' – SAND and GRAVEL, some silt. Fine to coarse sand, well graded, fines, fine and coarse subangular, subrounded gravel to 1", asphalt pieces, concrete	SW/ Fill	Dry No visible man-made material or PACM Damp	0	0
4										0	0
		1.7' / 2'	OU6-SO-3A35-302-0406 Screening 5/19/04 @ 1625		Soft	Dark Brown	0' – 1' – SILT, with sand intervals, organic roots, reeds	OL/ OH	0.5' – 0.6' – interval of fine-medium gray sand	199	0
5									Native material	242	0
			Also DUP 303 @ 1630			Brown-Black	1' – 1.7' – Similar to above, with twigs, reeds, wood		0.8' - 0.9' – broken weathered schist-soft organic odor (H_2S) No visible PACM or spongy material		
6											
		1.3' / 2'	OU6-SO-3A35-302-0608 Screening 5/19/04 @ 1635		Loose	Black-Brown	0' – 0.5' – SILT, some organics (roots, organic fibers)		Saturated at 6'	91.6	0
7						Gray	0.5' – 0.8' – GRAVEL, some sand. Fine subrounded and subangular gravel to ½". Fine to coarse sand, well graded	GP	Damp	0	0
					Soft	Black - Brown	0.8' – 1.3' – SILT and ORGANICS. Roots, reeds, organic fibers	OL/ OH	Damp	245.2	0
8				EOB @ 8' bgs							

TYPE OF DRILLING RIG:	Geoprobe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note:	
METHOD OF SOIL SAMPLING:	Macro-Core	PACM – Potential asbestos containing material	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-302	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS			BORING NO.:	3A35-303
PROJECT NO.:	N1369			START DATE:	5/19/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	5/19/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
1		1.2' / 2'	OU6-SO-3A35-303-0002 Screening 5/19/04 @ 1645		Loose	Dark Brown	0' – 1.2' – SAND, some silt, some gravel, some organics. Mostly fine-medium sand, trace coarse sand, fines, fine subangular to subrounded gravel ¼" – ½", coarse subrounded and subangular gravel to 1", roots, trace broken rock	SM	Topsoil; dry fill	0	0
2					↓	↓	↓	↓	No visible PACM	↓	↓
3		1' / 2'	OU6-SO-3A35-303-0204 Screening and Confirmation 5/19/04 @ 1650		↓	Brown	0' – 1' – SAND and GRAVEL, some silt. Fine to coarse sand, well graved, fine and coarse subangular and subrounded gravels to 2"	GM/ SM	Damp fill No visible PACM	0	0
4					↓	↓	↓	↓		↓	↓
5		0.6' / 2'	OU6-SO-3A35-303-0406 Screening 5/19/04 @ 1700		↓	↓	0' – 0.6' – Similar to above, with less fine gravel, more coarse gravel	↓	Damp fill No visible PACM	0	0
6					↓	↓	↓	↓			
7		2' / 2'	OU6-SO-3A35-303-0608 Screening 5/19/04 @ 1705		↓	Gray – Brown	0' – 0.9' – SAND, some silt, some gravel. Mostly fine to coarse sand, well graded, fines, fine subangular to subrounded gravel to ½"	SM	Saturated at 6'	0	0
8				EOB @ 8' bgs	Soft	Gray Brown	0.9' – 1.3' – GRAVEL, some sand. Fine and coarse angular to subangular gravels to 1" 1.3' – 2' – PEAT with silt. Fibrous material mostly with silt.	GW PT/ OL	Damp	0 245	0 0

TYPE OF DRILLING RIG:	Geoprobe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note:	
METHOD OF SOIL SAMPLING:	Macro-Core	PACM – Potential asbestos containing material	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:	Approximately 6' bgs		
OTHER OBSERVATIONS:		BORING NO.: 3A35-303	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-304
PROJECT NO.:	N1369	START DATE:	5/20/04
LOGGED BY:	T. Dorgan	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
0	NA						Location in garden			**FID**	**PID**
			OU6-SO-3A35-0002			Brown	0' – 1' – Plant Roots approximately 0.2', silty fine to coarse SAND, trace gravel	Fill/SW	Fill	0	0
2			5/20/04 @ 0840				1' – 3' - Fine to coarse subangular GRAVEL, increasing silt, fine to coarse sand, gravel and cobble fill. Coarse fill increasing with depth. Cobble/gravel fill consists of schist fragments				
3							Refusal at 1st attempt at 3' bgs, refusal at 2nd attempt 2.25' bgs				
				EOB @ 3' bgs							

TYPE OF DRILLING RIG:	Hand Auger		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Hand Auger		
METHOD OF SOIL SAMPLING:	Hand Auger		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-304	PAGE: 1 OF 1

TtNUS Form 0018

BORING LOG FOR:	Raymark OU9 RI/FS	BORING NO.:	3A35-305
PROJECT NO.:	N1369	START DATE:	5/20/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
1		1.2' / 2'	OU6-SO-3A35-305-0002 Screening 5/20/04 @ 0900		Loose	Brown	SAND, some silt, trace gravel, organic material. Fine-medium sand, trace coarse sand, poorly graded, coarse subrounded gravel to ¾", roots/grass	SM	Topsoil; fill	0	2.2
2					↓	↓	↓	↓		↓	↓
3		1.3' / 2'	OU6-SO-3A35-305-0204 Screening 5/20/04 @ 0910		Medium Dense		SAND, some silt, trace gravel. Similar to above with brick, charcoal, clinkers, plastic, concrete pieces		Damp – wet (fines) Fill	1.1	2.3
4					↓		↓	↓		↓	↓
5		1.4' / 2'	OU6-SO-3A35-305-0406 Screening 5/20/04 @ 0920		Loose		SAND, trace silt, trace gravel. Fine-medium sand mostly, trace coarse sand, poorly graded, fine subangular gravel to ½", fibrous pad with glassy fibers at end (PACM)	SP	Fill	0	1.5
6					↓	↓	↓	↓	Possible PACM at end	↓	↓
7		2' / 2'	OU6-SO-3A35-305-0608 Screening 5/20/04 @ 0910		↓	↓	0' – 0.5' - SAND, some silt, trace gravel. Fine-medium poorly graded sand, coarse subangular gravel to 1" (1 piece) 0.5' – 1.4' - SAND, some silt, trace gravel. Fine to coarse well graded sand, fines (less than above), fine subrounded gravel to ½"	SM SW	Damp; fill	0	0
8			Dup-301 @ 0935		Spongy	Black	1.4' – 2' – Sponge-like material with glassy fibers throughout, needle like, sludge like material	Fill	PACM	0 59.7	1.4 0.4

TYPE OF DRILLING RIG:	Geoprobe
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note:
PACM – Potential asbestos containing material

Tetra Tech NUS, Inc.

BORING NO.: 3A35-305

TtNUS Form 0018

BORING LOG FOR:	Raymark OU9 RI/FS	BORING NO.:	3A35-305
PROJECT NO.:	N1369	START DATE:	5/20/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.8' / 2'	OU6-SO-3A35-305-0810 Screening and Confirmation 5/20/04 @ 0940		Spongy	Black-Red	0' – 1.4' – FILL, sponge-like material with glassy fibers throughout, reddish colored padding material, sludge like	Fill	Mottled color PACM		
9										725	0.0
			OU6-SO-DUP-302 Confirmation Dup @ 0950		Soft	Gray - Black	1.4' – 2' – PEAT and ORGANIC SILT, organic fibers, reeds, roots, with silt	PT/ OL/OH	Native material	12.9	0.0
10										↓	↓
				EOB @ 10' bgs			EOB @ 10' bgs – Backfill with bentonite chips (10' – 1') and topsoil (1' – 0')				
		RETURN FOR 1 MORE SAMPLE (10' – 12')									
10											
		2' / 2'	OU6-SO-3A35-305-1012 Screening 5/20/04 @ 1820		Soft	Gray-Black	0' – 1.5' – ORGANIC SILT, silt with organic roots	OL/OH	Saturated No visible PACM		
11							1.5' – 2' – PEAT and ORGANIC SILT (50/50 mix)	PT/OL-OH		499	0
12											

TYPE OF DRILLING RIG:	Geoprobe		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note:	
METHOD OF SOIL SAMPLING:	Macro-Core	PACM – Potential asbestos containing material	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-305	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-306
PROJECT NO.:	N1369	START DATE:	5/20/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
1		1.2' / 2'	OU6-SO-3A35-306-0002 Screening 5/20/04 @ 1015		Loose	Brown	SAND, some silt, trace gravel, organics. Fine-medium sand, trace coarse sand, poorly graded, 1 piece coarse subrounded gravel to 1", roots, grasses, reeds	SM	Topsoil; fill	0	0
2											
3		1.3' / 2'	OU6-SO-3A35-306-0204 Screening 5/20/04 @ 1020		Medium Dense		0' – 0.8' – SAND, some silt, some gravel. Fine to coarse sand, well graded, fines, fine and coarse subrounded gravel to 1", glass, brick	SW	Fill; damp	0	0
4					Soft		0.8' – 1.3' – SAND, some silt, trace gravel. Fine-medium sand, poorly graded, fine subrounded gravel to ½", brick, plastic	SM		0	0
5		1.6' / 2'	OU6-SO-3A35-306-0406 Screening 5/20/04 @ 1030		Medium Dense		0' – 0.8' – SAND, trace gravel, trace silt. Fine to coarse sand, well graded, fine and coarse subangular and subrounded gravel to 1" (2 pieces), roots	SW		4	0
6					Loose	Tan-Brown	0.8' – 1.1' – SAND. Fine sand, poorly graded 1.1' – 1.6' – SAND and GRAVEL, some silt. Fine to coarse sand, well graded, fine and coarse subangular and subrounded gravel to 1", broken rock	SP SW/ GW		0 0	3.3 3
7		2' / 2'	OU6-SO-3A35-306-0608 Screening 5/20/04 @ 1045		Spongy	Black-Red	0' – 2' – All sponge-like material with fibers throughout (glassy, needle like), matted fibers, mottled coloration, Black-Red-Brown	Fill	All Waste/PACM	282.2	6.9
8									Damp fill		

TYPE OF DRILLING RIG:	GEOPROBE		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note:	
METHOD OF SOIL SAMPLING:	Macro - Core	PACM – Potential asbestos containing material	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-306	PAGE: 1 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-306
PROJECT NO.:	N1369	START DATE:	5/20/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
8	NA									**FID**	**PID**
		2' / 2'	OU6-SO-3A35-306-0810 Screening 5/20/04 @ 1050		Spongy	Black - Brown	0' – 1.5' – WASTE, similar to 6' – 8'. Sponge-like material with glassy fibers, needle-like	Fill	PACM, saturated mottled coloration – Black-Red-Brown		
9										119	1.8
					Soft		1.5' – 2' – ORGANIC MATERIAL, fibrous, some silt, roots, reeds, slight plastic nature	PT/ OL-OH	H_2S odor, native material Soil damp		
10										87	4
		1' / 2'	OU6-SO-3A35-306-1012 Screening 5/20/04 @ 1055			Gray - Brown	0' – 1' – Organic SILT, silt sized material with organic fibers throughout	OL-OH	Native material H_2S odor Saturated Partial recovery		
11											
12											
				EOB @ 12' bgs			EOB @ 12' bgs – Backfill with bentonite chips (12' – 1') and topsoil (1' – 0')				

TYPE OF DRILLING RIG:	GEOPROBE		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note:	
METHOD OF SOIL SAMPLING:	Macro - Core	PACM – Potential asbestos containing material	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-306	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-307
LOGGED BY:	K. Jalkut	START DATE:	5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: LJD	COMPLETION: DATE: 5/20/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		0.9' / 2'	OU6-SO-3A35-307-0002 Screening 5/20/04 @ 1155		Loose	Brown	0 –0.9 –SAND, some silt, trace gravel, fine-medium sand, trace coarse sand, poorly graded, 1 piece fine subrounded gravel to ½" , roots	SM	Topsoil, dry		
1										0	3.2
2											
		2' / 2'	OU6-SO-3A35-307-0204 Screening 5/20/04 @ 1200		Medium Dense		0 -2' – SAND, some silt, trace organics, fine-medium sand, poorly graded, roots, brick pieces		Fill, damp		
3										5.4	2.7
4										1.9	1.3
		1.2' / 2'	OU6-SO-3A35-307-0406 Screening 5/20/04 @ 1205				0 – 0.3 – Similar to above			0	
5					Loose	Black - Brown	0.3 – 1.1 – SAND and GRAVEL, trace silt, fine-coarse sand, well graded, fine-coarse subrounded gravel to 1"	SW/GW	Damp, fill		2.3
										0	
6						Brown	1.1 – 1.2 – WOOD chunk, organic material	Fill		0	
		1.2' / 2'	OU6-SO-3A35-307-0608 Screening 5/20/04 @ 1210			Red-brown	0 – 0.5 – SAND, some silt, trace gravel. Fine-coarse sand, well graded, 1-2 pieces fine gravel, subrounded, plastic, brick	SM/Fill	Damp	0	3.8
7											
						Gray-White	0.5 – 0.8 – Broken Schist – coarse sized	Fill	Damp	0	3.2
8						Brown	0.8 – 1.2 – SAND, some silt, trace gravel, fine-coarse sand, well graded, 1-2 pieces coarse subrounded gravel to 1"	SM			

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-307
LOGGED BY:	K. Jalkut	START DATE:	5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: LJD	COMPLETION: DATE: 5/20/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		0.9' / 2'	OU6-SO-3A35-307-0810		Loose	Black - Brown	0 – 0.7 – SAND and GRAVEL, some silt, fine-coarse sand, well graded, fine-coarse subrounded gravel to 1"	SW/GW	Saturated @ 8'		
9			Screening/confirmation 5/20/04 @ 1215							0	1.7
					Soft		0.7 – 1.5 – ORGANIC SILT, silt mixed with organics, including reeds, roots, long shiny fibers in top silt layer, PACM, cellulose	OL/ Fill	Native	47.2	3.8
10									Long shiny fibers-PACM		
				EOB@ 10' bgs			EOB @ 10' – backfill with Bentonite chips 10' – 1'; topsoil 1' – 0'				
							Return to advance 10-12' (no samples 0-10')				
10											
		1.5' / 2'	OU6-SO-3A35-307-1011		Soft	Gray-brown With red	0 – 0.5' – ORGANC SILT, with long shiny fibers in top of silt layer, PACM	OL/Fill	Mottled with red splotches	42	0
11			Screening 5/20/04 @ 1740						Saturated		
			OU6-SO-3A35-307-1112			Gray - Brown	0.5 – 1' – PEAT and ORGANIC SILT	PT/OL	Saturated – native	1009	0
12			Screening 5/20/04 @ 1745								

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note: PACM= Potential asbestos containing material
Recalibrated PID after cal check- worked ok

Tetra Tech NUS, Inc.

BORING NO.: 3A35-307

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-308
PROJECT NO.:	N1369	START DATE:	5/20/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: LJD	COMPLETION: DATE: 5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.1' / 2'	OU6-SO-3A35-308-0002 Screening 5/20/04 @ 1230	S-1	Loose	Brown Red-	(0 – 1.1') – SAND, some silt, trace gravel, fine-medium sand, trace coarse sand, poorly graded, 1 piece fine subrounded gravel to ½", roots, broken rock pieces	SM	Topsoil, fill, Dry	0	0
1											
2											
		0.7' / 2'	OU6-SO-3A35-308-0204 Screening 5/20/04 @ 1240	S-2	Medium Dense	Brown	(0 -0.7') – SAND, some silt, trace gravel, fine-coarse sand, well graded, coarse gravel, subrounded to 1"	SW	Damp	0	0.3
3											
4											
		1.5' / 2'	OU6-SO-3A35-308-0406 Screening 5/20/04 @ 1245	S-3	Loose		(0 – 0.6') – SAND and GRAVEL, some silt, fine-coarse sand, well graded, fine-coarse subrounded gravel to 1"		Dry	0	0.2
5						Gray	(0.6 – 1.5') – Broken schist, coarse sizes	Rock Fill	Dry		
6											
		1.6' / 2'	OU6-SO-3A35-308-0608 Screening 5/20/04 @ 1250	S-4		Brown	(0 – 0.7') – Similar to material in S-3 (0 – 0.6')	SW	Damp	0	0.7
7					Medium Dense		(0.7 – 1.3') – SAND, some silt, trace gravel, fine-coarse sand, well graded, 1 piece fine subrounded gravel to ½", glass, brick, PACM – 1" lens noted, fiberous material with needle-like fibers	SM/Fill			
										0	2.9
8					Soft	Black	(1.3 – 1.6') – ORGANIC material, roots with glass	Fill			

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note:PACM= Potential asbestos containing material

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-308
LOGGED BY:	K. Jalkut	START DATE:	5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: LJD	COMPLETION: DATE: 5/20/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.5' / 2'	OU6-SO-3A35-308-0810		Spongy	Red - Brown	(0 – 1.2') –FILL Matted fiberous material with needle-like fibers, spongy like waste, PACM	Fill	Saturated @ 8'		
9			Screening/confirmation 5/20/04 @ 1300							142	0
			OU6-SO-3A35-308-0810		Soft	Black	(1.2 - 1.5') – ORGANIC MATERIAL (roots) with silt, bricks (reworked)	OL	Possible top of Native		
10			Screening/confirmation 5/20/04 @ 1310							220	0
				EOB@ 10' bgs			Backfill (may return for depth)				
									2nd borehole		
10							Return for depth sample 5/20/04 – 5 pm No samples collected from 0-10' bgs				
		0.7' / 2'	OU6-SO-3A35-308-1011		Soft	Gray - Black	0 – 0.2' – PEAT, fiberous organic material, some silt	PT/OL	Saturated	96	0
11			Screening 5/20/04 @ 1700				0.2-0.7' – SILT sized particles with organics, roots, trace fine sand, poorly graded				
12											
				EOB@ 12' bgs			Backfill 0 -12'				

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note: PACM=Potential asbestos containing material

Tetra Tech NUS, Inc.

BORING NO.: 3A35-308

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-309
LOGGED BY:	K. Jalkut	START DATE:	5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: LJD	COMPLETION: DATE: 5/20/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.5' / 2'	OU6-SO-3A35-309-0002 Screening 5/20/04 @ 1500		Loose	Brown	(0 – 1.5') – SAND and GRAVEL, some silt, fine-coarse sand, well graded, fine-coarse subrounded gravel ¾" – 1", brick, charcoal or asphalt, roots, grass	SW	Topsoil, fill, dry		
1										0	0
2											
		1.6' / 2'	OU6-SO-3A35-309-0204 Screening 5/20/04 @ 1505		Medium Dense		(0 -1.6') – SILTY SAND, some gravel, fine-coarse sand, well graded, fines, fine-coarse gravel subangular and subrounded to 1.25", brick	SM	Damp (fines) More silt than above	0	0
3											
									Fill		
4											
		1.2' / 2'	OU6-SO-3A35-309-0406 Screening 5/20/04 @ 1510				(0 – 0.7') – SAND and GRAVEL, some silt, fine-coarse sand, well graded, fine-coarse subangular and subrounded gravel to 1.5", glass, metal	SW/GW		0	0
5											
					Loose	Gray Tan	(0.7 – 0.9') – GRAVEL, 2 pieces coarse (0.9 – 1.1') – SAND – fine-medium, poorly graded	GP SP	Fill -dry Dry		
6							(1.1 – 1.2') – SILTY SAND, some gravel, fine-coarse sand, fine-coarse gravel, subrounded	SM	Damp	0	0
		1.2' / 2'	OU6-SO-3A35-309-0608 Screening Confirmation 5/20/04 @ 1515		Medium Dense	Brown	(0 – 1.2') – SAND and GRAVEL, some silt, fine-coarse sand, well graded, fines, brick, fine-coarse subangular and subrounded gravel, broken rock (Schist)	SW/GW	Saturated at 8'		
7										0	0
8											

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: 3A35-309

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-309
LOGGED BY:	K. Jalkut	START DATE:	5/20/04
TRANSCRIBED BY:	LJD	COMPLETION: DATE:	5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		0.5' / 2'	OU6-SO-3A35-309-0810 Screening 5/20/04 @ 1525		Loose	Brown	(0 – 0.5') – SAND – some gravel, fine-coarse sand, well graded, fine-coarse subrounded and subangular gravel ½ - ¾", trace brick	SW	Saturated Fill		
9										0	0
10											
		1.5' / 2'	OU6-SO-3A35-309-1012 Screening/confirmation 5/20/04 @ 1530		Soft	Gray - Black	(0 - 0.4') – SILT sized particles, trace roots	OL	Soupy/Saturated	0	0
11							(0.4 - 0.8') – Fiberous material, PEAT, organic soil	PT		41.7	0
							(0.8 – 1.5') – SILT sized particles and organic roots, slight plastic	OL/OH	Organic Silt	54.7	0
12											
				EOB@ 12' bgs			EOB @ 12' backfill with Bentonite chips – 12'-1' topsoil 1'-0'				

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)	Notes; No visible PACM PACM=Potential asbestos containing material	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique		
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-309	PAGE: 2 OF 2

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-310
PROJECT NO.:	N1369	START DATE:	5/20/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
0	NA									**FID**	**PID**
		1.3' / 2'	OU6-SO-3A35-310-0002 Screening 5/20/04 @ 1555		Loose	Brown	0' – 0.3' – SAND, some silt, organics. Fine-medium sand, trace coarse sand, poorly graded, roots	SP	Topsoil		
1					Medium Dense		0.3' – 0.6' – Silty SAND – mostly, fine-medium sand, fines	SM	Damp	0	0
					Loose		0.6' – 1.3' – SAND, trace gravel. Fine-medium sand, trace coarse sand, fine and coarse subangular and subrounded gravel to ¾"	SP	Dry		
2					↓	↓	↓	↓	↓	0	0
		1.5' / 2'	OU6-SO-3A35-310-0204 Screening 5/20/04 @ 1600		Medium Dense	Red - Brown	0' – 1' – Silty SAND, trace gravel, mostly fine-medium sand, trace coarse sand, fines, brick pieces, 1 piece ¾" coarse subangular gravel	SM	Damp	0	0
3					↓		↓	↓	↓		
					Loose	Brown	1' – 1.5' – SAND and GRAVEL, trace silt. Fine to coarse sand, well graded, fine and coarse subrounded gravel	SW/ GW		0	0
4					↓		↓	↓	↓		
		1.7' / 2'	OU6-SO-3A35-310-0406 Screening 5/20/04 @ 1610		Medium Dense	Brown	0' – 0.5' – Silty SAND, trace gravel. Fine-medium sand, poorly graded, 1-2 pieces fine gravel, subrounded to ½"	SM	↓	0	0
5					↓		↓	↓	↓		
					Loose		0.5' – 1.1' – SAND and GRAVEL, broken rock. Fine to coarse sand, well graded, fine and coarse subangular and subrounded gravels to 1 ½"	SW/ GW			
6					↓		1.1' – 1.7' – ASPHALT (black), fine to coarse SAND (loose)	SW/Fill		0	0
		1.6' / 2'	OU6-SO-3A35-310-0608 Screening 5/20/04 @ 1615		↓	↓	0' – 0.5' – SAND, trace silt. Fine to coarse sand, well graded	SW	Dry	0	0
7					↓	Gray	0.5' – 0.8 – Broken ROCK (Schist)	Rock	↓		
					↓	Brown	0.8' – 1.1' – SAND, some gravel, trace organic material. Fine to coarse sand, well graded, wood chunk, plastic piece (yellow), fine and coarse subrounded gravel to 1"	SW	Wet	0	0
8					↓	Gray	1.1' – 1.6' – SAND. Fine to coarse, well graded	↓	↓		

TYPE OF DRILLING RIG:	GEOPROBE LT54
METHOD OF ADVANCING BORING:	Direct Push
METHOD OF SOIL SAMPLING:	Macro - Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-310
LOGGED BY:	K. Jalkut	START DATE:	5/20/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/20/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
8	NA									**FID**	**PID**
		1.6' / 2.0'	OU6-SO-3A35-310-0810 Screening 5/20/04 @ 1620		Loose	Gray-	0' - 1.3' - SAND trace gravel. Fine to coarse sand, well graded, 1-2 pieces fine subrounded gravel to ½"	SW	Saturated at 8'	112	0
				S-5	Spongy/ Soft	Dark-Brown	1.3' - 1.6' - FIBROUS MAT – some silt, roots, reeds, organic fibers	PT/OL	Native - Saturated		
10										260	0
		1.7' / 2.0'	OU6-SO-3A35-310-1011 Screening 5/20/04 @ 1630		Loose	Gray-	0' - 1.3' - SAND, trace gravel. Similar to material at S-5 (0' - 1.3')-slough	SW	Slough (collapsed material)	0	0
			OU6-SO-3A35-310-1112 Screening	S-6	Spongy/ Soft	Dark-Brown	1.3' - 1.7' - FIBROUS MAT, some silt – similar to S-5 at 1.3'-1.6'	PT/OL	Native – saturated	542	0
12			5/20/04 @ 1635								
				EOB @ 12' bgs			EOB at 12' bgs - Backfill with bentonite chips 12'-1'; topsoil 1'-0				

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note: Checked on hole- it has collapsed below the H_20 table. Sand unit at 10'-11' is likely slough	
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-310	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-311
PROJECT NO.:	N1369	START DATE:	5/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA						Grass				
		1.2' / 2'	OU6-SO-3A35-311-0002 Screening 5/21/04 @ 0835		Loose	Brown	SAND, trace gravel. Fine-medium sand mostly, trace coarse sand, fine subrounded and subangular gravel to ½", coarse subangular gravel to 1", roots, asphalt pieces (3)	SP	Topsoil; dry		
1										0	0
2											
		1.5' / 2'	OU6-SO-3A35-311-0204 Screening 5/21/04 @ 0850				0' – 0.5' – SAND, trace gravel. Fine to coarse sand, well graded, fine subangular gravel to ½:, furnace slag, ash, plastic	SW	Fill - dry	0	0.4
3											
					Medium Dense	Red Brown	0.5' – 1' – Silty SAND, trace gravel. Fine-medium sand, poorly graded, fines, 1 piece coarse gravel to 1 ½", tar paper, furnace slag, plastic, broken rock	SM	Damp (fines)		
4					Loose	Brown-Black	1' – 1.5' – SAND. Fine to coarse sand, well graded, asphalt, trace gravel, 1 piece coarse subangular gravel to 1"	SW			
		1.6' / 2'	OU6-SO-3A35-311-0406 Screening 5/21/04 @ 0855		Medium Dense		0' – 1' – SAND, some silt, some gravel. Fine to coarse sand, well graded, fine and coarse subangular gravel to 1", asphalt pieces (3"), plastic, tar paper		Dry		
5									Damp; Fill	0	0
							1' – 1.6' – Silty SAND and ASPHALT pieces. Fine to coarse sand, well graded	SM/Fill	Damp; Fill		
6											
		1.2' / 2'	OU6-SO-3A35-311-0608 Screening 5/21/04 @ 0900		Loose	Brown – Gray	0' – 0.4' – SAND/CONCRETE. Fine to coarse sand, well graded	SW/Fill	Dry - Fill	0	0.4
7						Brown	0.4' – 0.8' – SAND and GRAVEL. Fine to coarse sand, well graded, fine and coarse subangular and subrounded gravel to 1"	SW/ GW	Wet		
						Gray	0.8' – 1.2' – Similar to above		Wet - Saturated	4	0.8
8											

TYPE OF DRILLING RIG:	GEOPROBE LT54
METHOD OF ADVANCING BORING:	Direct Push
METHOD OF SOIL SAMPLING:	Macro - Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: 3A35-311

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-311
LOGGED BY:	K. Jalkut	START DATE:	5/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/21/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		0.7' / 2'	OU6-SO-3A35-311-0810 Screening 5/21/04 @ 0910		Loose	Brown	SAND and GRAVEL –fine-coarse sand, subangular, subrounded gravel to 1.5"	SW/GW	Saturated Poor recovery- rock and end of liner	1	0
10											
		1.8' / 2'	OU6-SO-3A35-311-1011 Screening 5/21/04 @ 0915			Gray	0' -0.4' - SAND and GRAVEL. Fine to coarse sand, fine-coarse subangular and subrounded gravel to 1"		Saturated	4.0	0
					Soft	Black	0.4' - 1.4' - SILT with reeds, roots, fibers- (possibly man-made) pasty, sludge-like	OL/ Fill	* PACM	174	0
12			OU6-SO-3A35-311-1112 Screening 5/21/04 @ 0920		Loose	Tan	1.4' - 1.8' - SAND, fine-medium sand, poorly graded	SP		22	0
				EOB @ 12' bgs			EOB at 12' bgs - Backfill with bentonite chips 12'-1' topsoil (1'-0)				

TYPE OF DRILLING RIG:	GEOPROBE		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push	*Note: PACM= Potential asbestos Containing material	
METHOD OF SOIL SAMPLING:	Macro - Core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-311	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-312
PROJECT NO.:	N1369	START DATE:	05/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 05/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.4' / 2'	OU6-SO-3A35-312-0002 Screening 05/21/04 @ 1015		Loose	Brown	0.0' - 0.7' – SAND, some gravel, trace silt. Fine to medium sand, trace coarse sand, poorly graded, fine and coarse subrounded gravel to ¾", roots, grass	SP	Topsoil, dry		
1										0.1	0
						Gray-White	0.7' - 1.0' - BROKEN ROCK	Broken Rock	(Damp)		
2						Brown	1.1' - 1.4' – SAND, some silt. Fine to medium sand, poorly graded, fines	SM		1.0	0
		1.4' / 2'	OU6-SO-3A35-312-0004 Screening and Confirmation 05/21/04 @ 1020			Gray - Brown	0.0' - 0.5' - SAND and GRAVEL. Fine to coarse sand, fine and coarse subangular and angular gravel to 1 ¼" , broken rock fragments	SW	Fill, dry	0	0
3					Medium Dense	Brown	0.5' - 1.4' - SAND and GRAVEL, some silt. Fine to coarse sand, fine and coarse subangular gravel to 1 ¼"	SM-	Damp	0	0
4											
		1.5' / 2'	OU6-SO-3A35-312-0406 Screening 05/21/04 @ 1025		Loose	Brown	0.0' - 0.8' – SAND, some gravel, trace silt. Fine-medium sand mostly, trace coarse sand, poorly graded, coarse subrounded and subangular gravel to 1", brick	SP	Dry	0.9	0
						White Brown	0.8' -1.1' - CONCRETE chunks 1.1' - 1.5' – SAND, some gravel, some silt. Fine to coarse sand, well graded, fine and coarse subangular gravel to 1", asphalt pieces, brick, plastic	Fill SW		0.8	0
6											
		1.5' / 2'	OU6-SO-3A35-312-0608 Screening 05/21/04 @ 1030			Gray Brown	0.0' - 0.6' - Broken ROCK – pieces up to 1 ½" 0.6' - 0.8' - ASPHALT, CONCRETE, BRICK	Rock/ Fill	Dry	0	0
						Brown Gray	0.8' - 1.1' - SAND, fine to coarse well graded, asphalt 1.1' - 1.5' - SAND, fine to coarse, similar to above	SW	Saturated	0.4	0
8											

TYPE OF DRILLING RIG:	GEOPROBE LT54
METHOD OF ADVANCING BORING:	Direct Push
METHOD OF SOIL SAMPLING:	Macro - Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-312
LOGGED BY:	K. Jalkut	START DATE:	05/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: RAC	COMPLETION: DATE: 05/21/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.5' / 2'	OU6-SO-3A35-312-0810 Screening 5/21/04 @ 1035		Loose	Gray	0' - 0.4' - SAND and GRAVEL. Fine to coarse sand, well graded, fine and coarse subrounded gravel to 1"	SW/GW	Saturated		
							0.4' - 0.8' - Broken ROCK- coarse pieces	Fill		5.9	0
						Brown	0.8' - 1.2' – SAND. Fine to coarse sand, well graded, asphalt pieces to 1 ½"	SW/Fill	Saturated, fill		
10						Gray-Black Gray-Brown	1.2' - 1.4' - SAND – Fine-medium sand, poorly graded 1.4' - 1.5' - PEAT – Organic material-reeds, roots	SP/Fill PT	Native	122	0
		1.5' / 2'	OU6-SO-3A35-312-1012 Screening 5/21/04 @ 1040		Soft	Gray-Brown	0' - 1.5' – PEAT, silt sized material with organic roots, reeds, organic fibers		Native Organic odor	130	2.1
12											
				EOB @ 12' bgs			EOB at 12' bgs - Backfill with bentonite chips (12'-1'); topsoil (1'-0)				

TYPE OF DRILLING RIG:	GEOPROBE
METHOD OF ADVANCING BORING:	Direct Push
METHOD OF SOIL SAMPLING:	Macro - Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING NO.: 3A35-312

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-313
PROJECT NO.:	N1369	START DATE:	05/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 05/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
0	NA						Asphalt Driveway – Approximately 5" thick			**FID**	**PID**
		1.8' / 2'	OU6-SO-3A35-313-0002 Screening 05/21/04 @ 1200		Loose	Black	0.0' - 0.45' - ASPHALT	Fill	Dry		
1						Brown	0.45' - 1.0' - SAND and GRAVEL. Fine to coarse sand, well graded, fine and coarse subangular and subrounded gravel to ¾"	SW	Damp	0	0
						White	1.0' - 1.3' - Broken ROCK	Rock	Dry		
2						Brown	1.3' - 1.8' – Silty SAND. Fine to medium sand, poorly graded	SM	Damp	0	0
		1.5' / 2'	OU6-SO-3A35-313-0204 Screening 05/21/04 @ 1205				0.0' - 0.4' - Similar to above		Damp	0	0
3							0.4' - 1.5' – SAND, some gravel, trace silt. Fine-medium sand mostly, trace coarse sand, poorly graded, fine subangular gravel to ½". Coarse subrounded gravel to 1 ½", tar shingles, plastic pieces, furnace slag	SP	Dry		
4											
		1.8' / 2'	OU6-SO-3A35-313-0406 Screening 05/21/04 @ 1210				0.0' - 0.8' - SAND and GRAVEL, trace silt. Fine to coarse sand, well graded, fine and coarse subangular and subrounded gravel to 1"	SW	Damp		
						Black	0.8' - 1.0' - Charred WOOD, broken ROCK	FILL	Dry	181	0
						Brown	1.0' - 1.8' - SAND and GRAVEL, trace silt. Fine to coarse sand, fine and coarse subrounded and subangular gravel to ¾", brick, plastic, tile, asphalt, roots	SW/ GW	Damp		
6										21	0
		1.8' / 2'	OU6-SO-3A35-313-0608 Screening 05/21/04 @ 1215				0.0' - 0.8' - SAND and GRAVEL, trace silt, similar to above		Damp	1.4	0
						Gray-Black	0.8' - 1.8' - SAND and GRAVEL. Fine to coarse sand, well graded, fine and coarse subrounded gravel to 1", brick		Saturated		
										367.7	0.2
8											

TYPE OF DRILLING RIG:	GEOPROBE
METHOD OF ADVANCING BORING:	Direct Push
METHOD OF SOIL SAMPLING:	Macro - Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-313
PROJECT NO.:	N1369	START DATE:	05/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 05/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.6' / 2'	OU6-SO-3A35-313-0810 Screening and Confirmation 5/21/04 @ 1220		Loose	Gray/ Black	0' - 0.7' - SAND and GRAVEL (similar to above without brick pieces)	SW/GW	Saturated		
					Soft	Black	0.7' - 1.6' – PEAT Organic material – some silt. Mostly degraded roots/reeds/ twigs (peat) with some silt	PT		1155	0.2
10										353	0
		1.0' / 2'	OU6-SO-3A35-313-1012 Screening 5/21/04 @ 1225			Gray-Brown	0' - 0.2' - PEAT – fibrous material mat		Saturated	111	0.2
							0.2' - 1' - Organic SILT – silt with organic material – roots, reeds, twigs	OL/OH	Plastic		
12										206	0
				EOB @ 12' bgs			EOB at 12' bgs - Backfill with bentonite chips (12'-1'), sand (1'-0.5'), cold patch (0.5'-0)				

TYPE OF DRILLING RIG:	GEOPROBE
METHOD OF ADVANCING BORING:	Direct Push
METHOD OF SOIL SAMPLING:	Macro - Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	3A35-314
LOGGED BY:	K. Jalkut	START DATE:	5/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: LAH	COMPLETION: DATE: 5/21/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA						Asphalt surface – 4-5" thick				
		1.6' / 2'	OU6-SO-3A35-314-0002 Screening 5/21/04 @ 1305		Loose	Brown	(0 – 0.3') – SAND and GRAVEL, fine-coarse sand, well graded fine-coarse subangular, subround gravel to ¾'	SW/GW	Asphalt driveDry		
1					Medium Dense	↓	(0.3-0.7) -- Silty SAND – mostly fine-medium sand, trace coarse sand, poorly graded	SP	↓	0	0
					Loose	Yellow/ Brown	(0.7-1.1') – wood chunk	Fill			
2					↓	↓	(1.1-1.6') – SAND, some silt, fine-coarse sand, well graded, fines, brick, charred wood	SM	↓	56.9	0.2
		1.5' / 2'	OU6-SO-3A35-314-0204 Screening 5/21/04 @1310 OU6-SO-DUP-302 Screening/Duplicate 5/21/04 @1315		Loose	Brown	(0 -0.5') – SAND and GRAVEL, fine-coarse sand, well graded, fine-coarse subrounded gravel to 1"	SW/GW	Damp	0	0
3					Spongy Soft	Black/ red	(0.5-0.8') FILL- spongy material with needle like glassy fibers, sludge-like (0.8-1.1) – organic silt, with fibers (PACM)	Fill	Mottled coloration PACM		
					↓	↓	(1.1-1.3') – SAND and GRAVEL, fine-coarse sand, well graded, fine-coarse subrounded gravel to 1"	↓	PACM/Damp		
4					↓		(1.3-1.5') –FILL- spongy material, PACM, sludge-like				
		1.6' / 2'	OU6-SO-3A35-314-0406 Screening 5/21/04 @ 1320		Spongy		(0-0.3') – similar to above		PACM/Damp		
5					↓				PACM	0	0
					Soft/Loose		(0.3-1.2') – SAND and GRAVEL, some silt, fine-medium sand, trace coarse sand, poorly graded, fine-coarse subangular and subrounded gravel to 1.5", brick, ceramic tile, PACM,roots, concrete	SM/GM	PACM		
6					↓	↓		↓			
		1.6' / 2'	OU6-SO-3A35-314-0608 Screening 5/21/04 @ 1325		Loose/ Soft	Dark Brown	(0-1') – SILT, trace fine sand (poorly graded), trace organic material visible	OL	Saturated/Liquified (slough?)	0	0
7					Soft	↓	(1-1.6') – PEAT and ORGANIC SILT with reeds, roots	PT/OL	(sample for analysis)		
					↓	↓	↓	↓		1372	0
8					↓	↓	Backfill 8'-1' with bentonite, 1'-0.5'=sand, 0.5-0 =cold patch	↓			

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note: PACM= Potential asbestos containg material

Tetra Tech NUS, Inc.

BORING NO.: 3A35-314

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-315
PROJECT NO.:	N1369	START DATE:	5/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: DH	COMPLETION: DATE: 5/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA						Grass				
		1.2'	OU6-SO-3A35-315-0002 SCREENING 5/21/04 @ 1435		Loose	Brown	0-1.2 SAND-Some silt – trace gravel (fine-medium sand, trace coarse sand, poorly graded, coarse gravel to 1" subangular, roots, grass)	SP	Topsoil; dry fill	0	0
2											
		1.8' / 2.0'	OU6-SO-3A35-315-0204 SCREENING 5/21/04 @ 1450		Loose	Brown	0-0.4' – similar to above 0.4'-0.6' Coarse GRAVEL to 1.5"	GP	Dry	25.7	0
						Light Gray Brown	0.6'-0.9' SAND fine-medium sand, poorly graded 0.9'-1.2' Silty SAND – Fine-medium sand, poorly graded	SP SM	Dry		
4						Brown	1.2'-1.8' SAND and GRAVEL/ASPHALT, fine-coarse sand, fine and coarse subangular, subrounded gravel, fine-coarse asphalt chunks	SW/Fill	Damp, strong asphalt odors	113	5.9
										125	2.4
		1.9' / 2.0'	OU6-SO-3A35-315-0406 SCREENING 5/21/04 @ 1455			Brown	0-0.8' SAND and GRAVEL – some silt , fine-coarse sand, well graded, fine and coarse subrounded gravel to 2", asphalt pieces	SW/GW	Slough Fill	234	2.2
6					Fibrous	Black-Brown	0.8'-1.6' PEAT- organic fibrous material, trace plastic	PT	No visible PACM Not native	220	0
						Gray-Brown	1.6'-1.9' SAND- fine-medium sand, trace coarse sand	SP		337	0
		1.5' / 2.0'	OU6-SO-3A35-315-0608 SCREENING 5/21/04 @ 1500		Loose		0-1.5' SAND- trace gravel, fine-medium sand, trace coarse sand, poorly Graded, fine gravel subangular, subrounded to ½"	SP	Saturated at 6'		
8										1535	0.4

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

PACM=Potential asbestos containing material

Tetra Tech NUS, Inc.

BORING NO.: 3A35-315

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-315
PROJECT NO.:	N1369	START DATE:	5/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: DH	COMPLETION: DATE: 5/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.9'/2.0'	OU6-SO-3A35-315-0810 SCREENING/ CONFIRMATION 5/21/04 @ 1505		Soft	Gray-Brown	(0.-0.5') Organic SILT – Silt with root material	OL	Saturated		
						Brown	(0.5'-1.9') PEAT- Fibrous organic material, some silt	PT	Less Moist – Lightweignt	900	1.2
10											
				EOB @ 10' bgs			EOB at 10' Backfill with bentonite chips 10'-1', topsoil 1.0"				

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique		
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-315	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-316
PROJECT NO.:	N1369	START DATE:	5/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.3' / 2'	OU6-SO-3A35-316-0002 Screening 5/21/04 @ 1540		Loose	Brown	0' – 1.3' – SAND, some gravel, trace silt. Fine-medium sand mostly, trace coarse sand, poorly graded, fine gravel subrounded to ½", roots	SP	Topsoil; dry		
1										0	0
2											
		1.6' / 2'	OU6-SO-3A35-316-0204 Screening 5/21/04 @ 1545				0' – 1.6' – SAND, some silt, trace gravel. Fine-medium sand, trace coarse sand, poorly graded, coarse gravel subangular to 1", brick	SM	More fines than above Damp (fines)	3.7	0
3											
										21.3	0
4											
		2' / 2'	OU6-SO-3A35-316-0406 Screening 5/21/04 @ 1550				0' – 0.5' – Similar to above		Damp	122	0
5						Dark Brown	0.5' – 2' – SAND and GRAVEL, some silt. Fine to coarse sand, well graded, fine and coarse subrounded and subangular gravel to 1", ceramic tile, concrete, green glass, netting (curly fibers – do not pull apart easily), plastic	SW/GW			
										224	0
6									Fill	8.9	0
		1.6' / 2'	OU6-SO-3A35-316-0608 Screening 5/21/04 @ 1600			Gray	0' – 1.1' – SAND and GRAVEL, trace silt. Fine to coarse sand, well graded, fine and coarse subrounded and subangular gravel to 1"		Damp; fill		
									Saturated	947	0.2
					Soft	Gray - Brown	1.1' – 1.6' – Organic SILT, with fibrous material (more silt than organics)	OL	Less moisture. Native		
										143	0

TYPE OF DRILLING RIG:	GEOPROBE LT54
METHOD OF ADVANCING BORING:	Direct Push
METHOD OF SOIL SAMPLING:	Macro - Core
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	3A35-316
PROJECT NO.:	N1369	START DATE:	5/21/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 5/21/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.5' / 2'	OU6-SO-3A35-316-0810 Screening 5/21/04 @ 1610		Soft	Gray-Brown	0' - 0.4' - Organic SILT- similar to above	OL	Less moist		
					Fibrous	Brown	0.4' - 1.5' - PEAT- Fibrous mat/roots, reeds, some silt	PT	Much less moisture	12.5	0.0
10				EOB @ 10' bgs			EOB @ 10' bgs - Backfill with bentonite chips 10'-1'; topsoil (1'-0)				

TYPE OF DRILLING RIG:	GEOPROBE LT54		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push		
METHOD OF SOIL SAMPLING:	Macro - Core		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: 3A35-316	PAGE: 2 OF 2

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-301
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.5' / 2'	SBP-SO-DPW-301-0002 Screening 6/2/04 @ 0925		Loose	Brown	Silty SAND, some gravel. Fine-medium sand, poorly graded, fine gravel subrounded to ½", roots, twigs, asphalt, glass, leaf litter	SM	Fill, damp		
										0.4	0.0
									Partial recovery		
2											
		1.5' / 2'	SBP-SO-DPW-301-0204 Screening and Confirmation 6/2/04 @ 0930				- Similar to above		Damp Fill Oxidized gravels	0.0	0.0
							- Coarse and fine gravel subrounded to 1"				
			Dup 308 @ 0932				- Glass, furnace slag		Partial recovery		
4											
		1.7' / 2'	SBP-SO-DPW-301-0406 Screening 6/2/04 @ 0935				0' – 0.8' – Similar to above, with glass shards to ½", furnace slag, wood chunks		Damp, fill	0.0	0.0
						Gray Brown	0.8' – 1.1' – SAND, some silt. Fine-medium sand, poorly graded, organic fibers	SP		0.0	0.0
					Medium Dense	Brown	1.1' – 1.7' – Silty SAND, some gravel. Fine-medium sand, trace coarse sand, poorly graded, fine and coarse subangular and subrounded gravel to 1", glass	SM		0.0	0.0
6											
		1.6' / 2'	SBP-SO-DPW-301-0608 Screening 6/2/04 @ 0940		Loose	Dark Brown	Silty SAND, some gravel. Fine-medium sand, trace coarse sand, poorly graded, fine and coarse subangular and subrounded gravel to 1", plastic, ceramic tile, glass, metal, slag, charcoal				
										0.9	0.0
										42.4	0.0
8										70.2	0.0

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)	Note:	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique		
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals	No visible potential asbestos containing material (PACM)	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: DPW-301	PAGE: 1 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-301
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.6' / 2'	SBP-SO-DPW-301-0810 Screening 6/2/04 @ 0945		Soupy	Gray Brown	0' – 0.8' – Similar to above	SM	Saturated at 8'	0.0	0.0
9					Soft	Dark Brown to Black	0.8' – 1.6' – PEAT, organic fibers throughout	PT	Damp		
					↓	↓	↓	↓		160	0.0
10					↓	↓	↓	↓			
				EOB @ 10' bgs			EOB @ 10' bgs - Backfill with Bentonite (10'-1') and topsoil (1'-0')				

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)	Note:	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique		
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals	No visible potential asbestos containing material (PACM)	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: DPW-301	PAGE: 2 OF 2

TtNUS Form 0018

BORING LOG FOR:	Raymark OU9 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	DPW-302
LOGGED BY:	K. Jalkut	START DATE:	6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/2/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.9' / 2'	SBP-SO-DPW-302-0002 Screening 6/2/04 @ 1000		Loose	Brown	0' – 0.7' – SAND, some silt. Mostly fine-medium sand, trace coarse sand, poorly graded, glass, roots, moss, twigs	SP	Fill; Dry	0.0	0.0
						Gray	0.7' – 0.9' – BROKEN SCHIST	Broken Rock	Weathered rock		
2						Brown-Gray	0.9' – 1.9' – SAND, some silt, trace gravel. Fine to coarse sand, well graded, fine and coarse subrounded gravel to 1", glass, slag, ash, seashell fragments	SW	Dry – gravels oxidized	0.0	0.0
		1.7' / 2'	SBP-SO-DPW-302-0204 Screening 6/2/04 @ 1005			Gray-Brown	SAND, trace silt, trace gravel. Mostly fine sand, trace medium sand, poorly graded, fine subrounded gravel to ½" (1 – 2 pieces)	SP	Dry	0.0	0.0
4							Siltier at bottom with old root structure		Oxidized roots, damp		
		1.4' / 2'	SBP-SO-DPW-302-0406 Screening 6/2/04 @ 1010			Brown	Similar to above with glass, tile, ash, charcoal		Dry	0.0	0.0
6							Siltier at bottom		Damp at bottom		
		0.6' / 2'	SBP-SO-DPW-302-0608 Screening 6/2/04 @ 1015		Medium Dense		Silty SAND, trace gravel. Fine-medium sand, poorly graded, 1 piece coarse subrounded gravel to 1 ½"		Hit a rock – poor recovery	0.0	0.0
8											

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU9 RI/FS		
PROJECT NO.:	N1369	BORING NO.:	DPW-302
LOGGED BY:	K. Jalkut	START DATE:	6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/2/04
GRD. SURFACE ELEVATION:		ELEVATION FROM:	MON. WELL NO.: N/A
			CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1' / 2'	SBP-SO-DPW-302-0810 Screening 6/2/04 @ 1020		Soft	Brown	SILT, some sand, trace gravel. Mostly silt, fine sand, fine subrounded gravel to ½"	ML	Wet	0.0	0.0
10											
		1.6' / 2'	SBP-SO-DPW-302-1012 Screening 6/2/04 @ 1025			Gray - Brown	Silty SAND, trace gravel. Fine-medium sand, poorly graded, fine subangular and angular gravel to ½", brick, ash, wood chunks, glass	SM	Damp – wet Fill	550	0.0
12									Some structure to sand at bottom	134	0.0
		0.9' / 2'	SBP-SO-DPW-302-1214 Screening 6/2/04 @ 1210		Loose	Gray – Brown to Brown	SAND, trace silt, trace gravel. Mostly fine-medium sand, trace coarse sand, poorly graded, fine and coarse subrounded gravel to 1"	SP	All cave in material initially, switch to closed piston sampler. Damp – wet, one ½" layer of dark colored organics	2100	0.0
14			(closed piston sampler)							0.0 (on sand)	0.0
		1.4' / 2'	SBP-SO-DPW-302-1416 Screening 6/2/04 @ 1230			Gray - Brown	0' – 0.3' – Silty SAND. Mostly fine-medium sand, poorly graded, one 1" interval organic layer (Dark Brown)	SM	Damp	182	0.0
						Gray	0.3' – 0.7' – SAND, trace silt. Mostly fine sand, poorly graded	SP	Saturated	123	0.0
16			(closed piston sampler)			Gray - Brown	0.7' – 1.4' – SAND, trace silt, trace gravel. Fine to coarse sand, well graded, fine and coarse subrounded gravel to ¾"	SW		316	0.0

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)	Note: Need to use closed piston sampler, nothing but cave in material 12'–14' and 14'-16'. Re-drill from adjacent location. No samples 0'–12' from second hole. Drilled 12'-14' and 14'-16' after original boring to 22'	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique		
METHOD OF SOIL SAMPLING:	Macro - Core Open tube continuous sampling to 4' in 2' intervals		
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: DPW-302	PAGE: 2 OF 3

TtNUS Form 0018

BORING LOG FOR:	Raymark OU9 RI/FS	BORING NO.:	DPW-302
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling & Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
16	NA										
		0.5' / 2'	SBP-SO-DPW-302-1618 Screening 6/2/04 @ 1100		Loose	Gray - Brown	SAND, trace silt. Mostly fine-medium sand, poorly graded, 1 piece slag	SP	Closed piston sampler - too soft to capture - Damp to wet	204	0.0
18			(no asbestos – not enough volume)						(Tooling pushes soil to the side)		
		2' / 2'	SBP-SO-DPW-302-1820 Screening and Confirmation 6/2/04 @ 1115		Soft		0' – 1.4' – SILT, some sand, trace gravel. Mostly fines with fine sand, fine angular gravel to ½", glass, slag	ML	Saturated/soupy	100	0.0
20					Loose	Brown	1.4' – 1.9' – Silty SAND, trace gravel. Mostly fine-medium sand, poorly graded, coal, slag, asphalt	SM	Fill; damp Possible start of peat at bottom	100	0.0
		0' / 2'	**NO SAMPLE** 6/2/04 @ 1140				**NO RECOVERY**				
22							Field decision made to end boring at 22', can't capture material and it does not appear to represent Raymark fill.				
				EOB @ 22' bgs			EOB @ 22' bgs - Backfill with Bentonite (22'-1') and topsoil (1'-0')				

TYPE OF DRILLING RIG:	GEOPROBE LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro - Core Closed piston sampler; continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note: Re-drill second hole to 12'. Collect 12'-14' and 14'-16' for analysis (no samples)

Tetra Tech NUS, Inc.

BORING NO.: DPW-302

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-303
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
1		1.5' / 2'	OU6-SO-DPW-303-0002 Screening 6/2/04 @ 1330		Loose	Brown	SAND, some gravel, trace silt. Fine-medium sand mostly, trace coarse sand, poorly graded, fine and coarse subangular gravel to ¾", grass, roots, glass, possible slag, ash	SP	Topsoil, fill Dry	0.5	0.0
2											
3		2' / 2'	OU6-SO-DPW-303-0204 Screening 6/2/04 @ 1350			Brown – Red Brown - Tan	SAND, some silt, trace gravel. Mostly fine to medium sand, trace coarse sand, poorly graded, coarse subangular gravel to 1", glass, roots, charcoal		Fill - oxidized gravels - broken schist (weathered)	0.0	0.0
4					Medium Dense				- finer sand at bottom (damp and denser)		
5		1.8' / 2'	OU6-SO-DPW-303-0406 Screening 6/2/04 @ 1340		Loose	Brown-Gray	Similar to above, with glass, slag, ash, charcoal		Two ¼" to ½" layers of fine sand, trace silt (gray)	0.0	0.0
6							Fine subangular gravels at bottom (oxidized)		Dry - Moist		
7		0.9' / 2'	OU6-SO-DPW-303-0608 Screening 6/2/04 @ 1345		Soft	Gray - Black	SAND, some silt, trace gravel. Mostly fine sand, poorly graded, fine subangular gravel to ½"	SM	Saturated	0.0	0.0
8											

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open Tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open tube to 12'

BORING NO.: DPW-303

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-303
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.8 / 2'	OU6-SO-DPW-303-0810 Screening 6/2/04 @ 1350		Soft	Gray to Brown	Silty SAND, trace gravel. Mostly fine sand, poorly graded, root fibers, wood chunk, fine subangular gravel to ½", broken schist at bottom	SM	Saturated Fill		
9										0.0	0.0
10									Increased gravels at bottom		
		1.1 / 2'	OU6-SO-DPW-303-1012 Screening 6/2/04 @ 1400			Gray - Brown	Silty SAND. Mostly fine sand, poorly graded, wood chunk at bottom of liner, unidentified debris (orange color)		Saturated	30.2	0.0
11											
12									Fill	26.8	0.0
		1' / 1'	OU6-SO-DPW-303-1213 Screening 6/2/04 @ 1545			Gray	0 – 0.4' – Silty SAND, trace gravel. Fine-medium sand, poorly graded, coarse subangular gravel to 1", glass		Saturated; Fill	52	0.0
13					Loose	Gray - Brown	0.4' – 1' – SAND, trace silt, trace gravel. Fine-medium sand, trace coarse sand, poorly graded, fine gravel subrounded to ½", glass, ash, wood	SP	Fill Fine sand at bottom	266	0.0
		2.5' / 3	OU6-SO-DPW-303-1316 Screening and Confirmation 6/2/04 @ 1605		Soft	Gray	0' – 1' – SAND, some silt. Fine sand, poorly graded		Saturated No man-made debris visible	17.1	0.0
14											
					Loose		1' – 2.5' – SAND, trace silt. Fine-medium sand, trace coarse sand, poorly graded		Wet No man-made debris visible	25.2	0.0
15											
										20.2	0.0
16											

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Closed Piston Sampler at 12' to end; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open tube to 12'

BORING NO.: DPW-303

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-303
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	COMPLETION: DATE:	6/2/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		CHECKED BY:	JL
TRANSCRIBED BY:	RAC	ELEVATION FROM:	

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
16	NA										
		1.5' / 2'	OU6-SO-DPW-303-1618 Screening 6/2/04 @ 1620		Soft	Gray	0' – 1.5' – SAND, trace silt. Mostly fine-medium sand, poorly graded	SP	Saturated		
17										4.7	0.0
18											
		1.5' / 2'	OU6-SO-DPW-303-1820 Screening 6/2/04 @ 1625				0' – 0.4' – SAND, trace silt, similar to above			8.2	0.0
19											
					Loose	Gray - Brown	0.4' – 1.5' – SAND, some gravel, trace silt. Mostly fine-medium sand, trace coarse sand, poorly graded, fine and coarse subrounded gravel to ¾"		One ½" interval of silt (gray) Possible native	15.5	0.0
20											
				EOB @ 20' bgs			EOB @ 20' bgs – Backfill with bentonite chips (20' – 1') and topsoil (1' – 0')				

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open Tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open tube to 12', Closed Piston Sampler 12' to EOB at 20'

BORING NO.: DPW-303

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-304
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
1		1.5' / 2'	OU6-SO-DPW-304-0002 Screening 6/2/04 @ 1645		Loose	Dark Brown	SAND, some gravel, trace silt. Mostly fine-medium sand, trace coarse sand, poorly graded, fine and coarse subangular gravel to 1", glass, brick, ash, seashells, charcoal, roots, grass	SP	Topsoil fill - dry	0.0	0.0
2											
3		1.3' / 2'	OU6-SO-DPW-304-0204 Screening 6/2/04 @ 1650			Brown	SAND, trace gravel, trace broken rock. Mostly fine-medium sand, trace coarse sand, poorly graded, fine and coarse subangular gravel to 1", brick, broken rock (granite)		Dry: fill	0.0	0.0
4											
5		1.1' / 2'	OU6-SO-DPW-304-0406 Screening 6/2/04 @ 1655				SAND, trace gravel, trace silt. Mostly fine-medium sand, trace coarse sand, poorly graded, fine and coarse subrounded gravel to ¾", 1 – 2 pieces charcoal (black)		Damp: fill	1.7	0.0
6											
7		1' / 2'	OU6-SO-DPW-304-0608 Screening 6/2/04 @ 1700				SAND, trace gravel, trace silt. Similar to above, with tan and red brick pieces to 1.5", coal		Poor recovery – hit brick at bottom of liner	0.0	0.0
8			No volume for asbestos sample						Damp: fill		

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open Tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note: Open tube to 10'. No recovery 8'-10' (1st attempt). Move rig over, redrill, to 8' with drive point. Reattempt sample collection 8'-10' with closed piston sampler

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-304
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		0.6' / 2'	OU6-SO-DPW-304-0810 Screening and Confirmation 6/2/04 @ 1705		Loose	Gray - Brown	SAND, trace gravel, trace silt. Fine-medium sand mostly, trace coarse sand, poorly graded, coal or charcoal pieces, fine and coarse subrounded gravel to 1"	SP	Start second hole with closed piston sampler at 8'. No recovery 8' – 10' (1st attempt)		
9										3.8	0.0
									Saturated		
10											
		0.6' / 2'	OU6-SO-DPW-304-1012 Screening 6/2/04 @ 1710				Similar to above, with trace brick pieces, coal or charcoal			13.3	0.0
11											
12									End 6/2/04		
		1.3' / 2'	OU6-SO-DPW-304-1214 Screening 6/3/04 @ 0815		Medium Dense	Gray - Brown	SAND, trace silt, trace gravel. Mostly fine-medium sand, poorly graded, chunk of wood (possibly burned) or charcoal, fine subangular gravel to ½"		Second hole collapsed. Start third hole. Advanced to 12' – no samples, used closed piston sampler	40.3	0.0
13											
									Saturated	56.2	0.0
14							More fine sand at bottom				
		1.3' / 2'	OU6-SO-DPW-304-1416 Screening 6/3/04 @ 0820			Gray	0' – 0.4' – SAND, trace silt. Fine sand, poorly graded		Saturated – possibly native	34.2	0.0
15							0.4' – 0.9' – SAND. Fine-medium sand, poorly graded			88.8	0.0
							0.9' – 1.3' – SAND. Fine sand, poorly graded			77.2	0.0
16											

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note: Open tube to 10'. No recovery 8'-10' (1st attempt). Move rig over, re-drill, to 8' with drive point. Reattempt sample collection 8'-10' with closed piston sampler

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-304
PROJECT NO.:	N1369	START DATE:	6/2/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
										FID	**PID**
16	NA										
		1.5' / 2'	OU6-SO-DPW-304-1618 Screening 6/3/04 @ 0830		Medium Dense	Gray	SAND. Mostly fine sand, trace medium sand, poorly graded, uniform	SP	Saturated; native		
17										64	0.0
18											
		1.5' / 2'	OU6-SO-DPW-304-1820 Screening 6/3/04 @ 0835							0.0	0.0
19											
20											
				EOB @ 20' bgs			EOB @ 20' bgs – Backfill with bentonite chips (20' – 1') and topsoil (1' – 0')				

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Closed Piston Sampler 12' to EOB; Continuous sampling to 4' in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	

Note: Open tube to 10'. No recovery 8'-10' (1st attempt). Move rig over, redrill, to 8' with drive point. Reattempt sample collection 8'-10' with closed piston sampler

Tetra Tech NUS, Inc.

BORING NO.: DPW-304

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-305
PROJECT NO.:	N1369	START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA						Asphalt Surface				
		1.3' / 2'	OU6-SO-DPW-305-0002 Screening 6/3/04 @ 0900		Loose	Brown	SAND and GRAVEL. Fine to coarse sand, well graded, fine and coarse subrounded and subangular gravel to 1.5", asphalt pieces	SW/ GW	Asphalt / roadbase Fill; dry		
1										0.0	0.0
2											
		1' / 2'	OU6-SO-DPW-305-0204 Screening 6/3/04 @ 0905			Brown - Gray	SAND and GRAVEL, some broken rock. Fine to coarse sand, well graded, fine and coarse subangular, angular and subrounded gravel to 1", charcoal, glass shards, ash, brick chunks last 0.4' of interval		Fill; damp	0.0	0.0
3											
4											
		1.4' / 2'	OU6-SO-DPW-305-0406 Screening 6/3/04 @ 0910			Gray - Brown	0' – 0.4' – Similar to above		Fill: dry	0.0	0.0
5					Medium Dense		0.4' – 1' – Silty SAND, some gravel. Mostly fine-medium sand, poorly graded, fine and coarse subangular gravel to 1", slag, glass, charcoal, seashell fragments, ash	SM	Damp	0.0	0.0
6					Loose	Red – Brown	1' – 1.4' – GRAVEL, some broken rock, seashells. Coarse schist gravel subangular to 1", seashells	GP	Oxidized interval	0.0	0.0
		1.2' / 2'	OU6-SO-DPW-305-0608 Screening 6/3/04 @ 0920			Brown– Red and Gray - Black	SAND and GRAVEL, some broken rock, some silt. Fine-medium sand, poorly graded, fine and coarse subangular gravel to 1", ash, slag, glass, charcoal, wood chunks, broken schist	SP/GP	Fill; damp Oxidized portions (sand)		
7										0.0	0.0
8											

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open Tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open Tube to 10'. Closed piston sampler 10' EOB in 4' lifts

BORING NO.: DPW-305

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS		BORING NO.: DPW-305
PROJECT NO.:	N1369		START DATE: 6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski		MON. WELL NO.: N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		0.8' / 2'	OU6-SO-DPW-305-0810 Screening 6/3/04 @ 0925 DUP 307 @ 0927		Loose	Brown Gray	Silty SAND, some gravel. Mostly fine-medium sand, poorly graded, fine and coarse subangular gravel to 1", brick fragments, charcoal, glass, metal and potential gasket material	SM/Fill	Saturated, PACM (fibrous pad-rubbery, reddish color on inside		
9										0.0	0.0
									Saturated		
10											
		1' / 2'	OU6-SO-DPW-305-1012 Screening 6/3/04 @ 0930		Soft	Gray Brown	Silty SAND. Fine sand, poorly graded		Saturated, now use closed piston sampler	120	0.0
11											
12											
		1' / 2'	OU6-SO-DPW-305-1214 Screening and Confirmation 6/3/04 @ 0940		Gray		0' – 0.4' – Similar to above, with wood chunk		Saturated Fill	126	0.0
13					Medium Dense		0.4' – 1' – SAND. Mostly fine sand, poorly graded	SP	Possible native material		
										60.4	0.0
14											
		2' / 2'	OU6-SO-DPW-305-1416 Screening 6/3/04 @ 0950				SAND, trace gravel. Fine sand, poorly graded, 2 to 3 pieces of fine subangular gravel to ½"		Saturated H_2S like odor (organic)	46.8	0.0
15											
									uniform	64.2	0.0
16											

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note:	
METHOD OF SOIL SAMPLING:	Macro-Core; Open tube; Continuous sampling in 2' intervals	PACM = Potential asbestos containing material	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Open Tube to 10' (2' intervals). Closed piston sampler 10' EOB (4' intervals)	BORING NO.: DPW-305	PAGE: 2 OF 3

BORING LOG FOR:	Raymark OU6 RI/FS			BORING NO.:	DPW-305
PROJECT NO.:	N1369			START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
										FID	**PID**
16	NA										
		1' / 2'	OU6-SO-DPW-305-1618		Medium Dense	Gray	SAND. Fine sand, poorly graded	SP	Saturated; no H_2S like odor Native material		
			Screening								
17			6/3/04 @ 0955							0.0	0.0
18											
				EOB @ 18' bgs			EOB @ 18' bgs. Possible native material encountered 12' – 14'. Advanced to 18' for confirmation, no man-made debris visible. No PACM below 8' – 10'				
							EOB @ 18' bgs – Backfill with bentonite chips (18' – 1') and topsoil (1' – 0')				

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)		*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	Note:	
METHOD OF SOIL SAMPLING:	Macro-Core; Closed Piston Sampler 12' to EOB; Continuous sampling in 2' intervals	PACM = Potential asbestos containing material	
METHOD OF ROCK CORING:	N/A		
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:	Open Tube to 10' (2' lifts). Closed piston sampler 10' EOB (4' lifts)	BORING NO.: DPW-305	PAGE: 3 OF 3

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-306
PROJECT NO.:	N1369	START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.4' / 2'	OU6-SO-DPW-306-0002 Screening 6/3/04 @ 1120		Loose	Brown	SAND, some gravel, trace silt. Mostly fine-medium sand, trace coarse sand, poorly graded, fine and coarse subangular gravel to 1", broken schist pieces, asphalt	SP	Roadbase fill Dry		
1										0.0	0.0
2											
		1.3' / 2'	OU6-SO-DPW-306-0204 Screening 6/3/04 @ 1125				0' – 0.4' – Similar to above		Dry: fill	0.0	0.0
3						Gray	0.4' – 1.3' – Broken schist and quartz fragments	Broken Rock	Weathered rock pieces: dry: fill	0.0	0.0
4											
		1.8' / 2'	OU6-SO-DPW-306-0406 Screening 6/3/04 @ 1130			Brown	SAND and GRAVEL. Fine to coarse sand, well graded, fine and coarse subangular to angular gravel to 1", slag, glass, melted glass, coal pieces	SW/ GW	Fill; dry	0.0	0.0
5											
6											
		1.5' / 2'	OU6-SO-DPW-306-0608 Screening 6/3/04 @ 1135			Gray - Brown	0' – 0.8' – Similar to above, with fill			0.0	0.0
7						Bright Red	0.8' – 1.3' – Similar to above except color. Fill debris, charcoal, glass, slag, root fibers, metal shell casing, ash, coal			0.0	0.0
						Brown	1.3' – 1.5' – Similar to above with less debris, color change				
8										0.0	0.0

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open Tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open Tube to 12'. Closed piston sampler 12' – 16'

BORING NO.: DPW-306

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-306
PROJECT NO.:	N1369	START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
9		1.9' / 2'	OU6-SO-DPW-306-0810 Screening 6/3/04 @ 1140		Loose	Brown	0' – 0.8' – SAND, some broken rock, trace gravel. Fine to coarse sand, well graded, broken schist, fine subangular gravel to ¼", slag pieces to 1 ½"	SW	Dry; fill	0.0	0.0
10						Red - Brown	0.8' – 1.9' - SAND and GRAVEL. Fine to coarse sand, well graded, fine subangular gravel to ½"		No debris noted, oxidized, possible native material. Damp at bottom	0.0	0.0
11		1.4' / 2'	OU6-SO-DPW-306-1012 Screening and Confirmation 6/3/04 @ 1145			Tan - Brown	SAND and GRAVEL. Fine to coarse sand, well graded, fine subangular gravel to ½"			0.0	0.0
12						Red - Brown	SAND. Mostly fine-medium sand, trace coarse sand, poorly graded, 1 piece quartz pebble (fragment)	SP	Oxidized – damp No debris, possible native material	0.0	0.0
13		1.5' / 2'	OU6-SO-DPW-306-1214 Screening 6/3/04 @ 1155						Oxidized, saturated, native material	0.0	0.0
14											
15		1.5' / 2'	OU6-SO-DPW-306-1416 Screening 6/3/04 @ 1200			Gray Brown	SAND. Mostly fine sand, poorly graded		Saturated; native material, visible bedding	0.0	0.0
16				EOB @ 16' bgs			EOB @ 16' bgs – Backfill with bentonite chips (16' – 1') and topsoil (1' – 0")				

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open Tube to 12'. Closed piston sampler 12' – 16'

Tetra Tech NUS, Inc.

BORING NO.: DPW-306

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-307
PROJECT NO.:	N1369	START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.7' / 2'	OU6-SO-DPW-307-0002 Screening 6/3/04 @ 1230		Loose	Red – Brown	0' – 0.9' – SAND and GRAVEL – BROKEN ROCK. Fine to coarse sand, well graded. Fine and coarse subangular gravel ½" – ¾", asphalt, quartz nodule	SW/ GW	Fill; dry (possible road base)		
1										0.0	0.0
						Brown	0.9' – 1.7' – SAND, trace silt. Fine-medium sand mostly, trace coarse sand, poorly graded	SP	Fill, moist	0.0	0.0
2											
		2' / 2'	OU6-SO-DPW-307-0204 Screening 6/3/04 @ 1235			Red – Brown	0' – 1' – SAND, trace gravel. Fine-medium sand, trace coarse sand, poorly graded, 2 – 3 pieces fine subrounded gravel to ½"			0.0	0.0
3						Gray – Black	1' – 1.2' – BROKEN SCHIST		Weathered rock chips	0.0	0.0
						Tan – Brown	1.2' – 2' – SAND. Mostly fine-medium sand, poorly graded		Sand, fill; moist	0.0	0.0
4											
		1.4' / 2'	OU6-SO-DPW-307-0406 Screening 6/3/04 @ 1335			Brown	0' – 0.7' – SAND, some gravel. Fine to coarse sand, well graded, fine subrounded gravel to ½", asphalt pieces	SW	3rd and 4th holes – refusal at 5'	0.0	0.0
5											
					Soft	Gray	0.7' – 1.4' - SILT, some sand. Fine sand, poorly graded	ML	Organic odor (strong) Wet (fines)	47.2	0.0
6											
		1.6' / 2'	OU6-SO-DPW-307-0608 Screening 6/3/04 @ 1340				0' – 0.4' – Similar to above		Wet (fine)	0.6	0.0
7					Loose	Black	0.4' – 1.6' – SAND, some gravel. Fine to coarse sand, well graded, fine and coarse subangular gravel to 1", slag, coal	SW	Fill - dry	2.4	0.0
8											

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open Tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open Tube to 12' (2 intervals). Closed piston sampler used 12' to EOB (4 lifts)

Note: First hole, no recovery at 2', second hole (0.5' – refusal at 5 – wood), third and fourth attempt – refusal at 5', fifth attempt – move ahead 10' – no samples second – fourth attempts

Tetra Tech NUS, Inc.

BORING NO.: DPW-307

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-307
PROJECT NO.:	N1369	START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
8	NA										
		1.2' / 2'	OU6-SO-DPW-307-0810 Screening 6/3/04 @ 1345		Loose	Black-Gray	FILL – ash, slag, glass, broken rock with fine to coarse sand size particles (negligible amount of soil)	Fill	Poor recovery Screening Duplicate – (dup #6 overall)		
9										1.0	0.0
			Screening Dup. OU6-SO-DUP06 6/3/04 @ 1350						Damp		
10											
		0.4' / 2'	OU6-SO-DPW-307-1012 Screening 6/3/04 @ 1355				Similar to above. More sand-sized (fine to coarse) particles observed		Poor recovery Damp; fill	1.9	0.0
11											
12									Petroleum like odor		
		1' / 2'	OU6-SO-DPW-307-1214 Screening 6/3/04 @ 1400			Gray - Brown	0' – 0.6' – FILL, similar to above, with evidence of petroleum like stains/sheen on fine to coarse sand size particles and gravels subrounded up to 1"; other fill, glass, slag, metal, wood chunks	SW/ GW/ Fill	Start use of closed piston sampler. Visible petroleum sheen (iridescent) on soil, saturated (oil) on soil and gravels	275	0.0
13											
					Soft	Black-Brown	0.6' – 1' – PEAT, organic soil with fibers	PT		404	27.5
14									Possible native material		
		1' / 2'	OU6-SO-DPW-307-1416 Screening 6/3/04 @ 1405				PEAT, similar to (0.6' – 1') above, organic material, fibrous/woody		Possible native material Damp Using closed piston sampler	1058	0.0
15											
16											

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open Tube to 12' (2 intervals). Closed piston sampler used 12' to EOB (4 lifts)

BORING NO.: DPW-307

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR:	Raymark OU6 RI/FS	BORING NO.:	DPW-307
PROJECT NO.:	N1369	START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY: RAC	COMPLETION: DATE: 6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski	MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:	CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
16	NA										
		1.5' / 2'	OU6-SO-DPW-307-1618 Screening 6/3/04 @ 1410		Soft	Black - Brown	0' – 1' – PEAT, similar to last interval	PT	Damp; native material		
17									Saturated	52	0.0
					Soft/ Loose		1' – 1.5' – Silty SAND and PEAT, trace gravel. Organic material with fines, fine-medium sand, poorly graded, fine gravel subrounded to ½" (2 pieces)	SM/ PT	Petroleum odor/ Sheen	27	0.0
18											
		1.5' / 2'	OU6-SO-DPW-307-1820 Screening 6/3/04 @ 1415		Loose	Brown	SAND and GRAVEL, some silt. Fine to coarse sand, well graded, fine and coarse subrounded gravel to 1 ¼", fines	SW	Native material	34	0.0
19											
20											
				EOB @ 20' bgs			Confirmed native material starts approximately 13' – 14' bgs. Petroleum stains visible 12' – 14' and 17' – 18'				
							EOB @ 20' bgs – Backfill with bentonite chips (20' – 1') and cold patch (1' – 0") with sand base				

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING:	Direct Push Technique
METHOD OF SOIL SAMPLING:	Macro-Core; Open tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING:	N/A
GROUNDWATER LEVELS:	
OTHER OBSERVATIONS:	Open Tube to 12' (2 intervals). Closed piston sampler 12' to EOB (4 interval)

BORING NO.: DPW-307

Tetra Tech NUS, Inc.

TtNUS Form 0018

BORING LOG FOR: Raymark OU6 RI/FS
PROJECT NO.: N1369
LOGGED BY: K. Jalkut
TRANSCRIBED BY: RAC
DRILLED BY (Company/Driller): Aquifer Drilling and Testing/S. Przybylski
GRD. SURFACE ELEVATION:
ELEVATION FROM:

BORING NO.: DPW-308
START DATE: 6/3/04
COMPLETION: DATE: 6/3/04
MON. WELL NO.: N/A
CHECKED BY: JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)] FID	PID
0	NA										
		1.2' / 2'	OU6-SO-DPW-308-0002 Screening and Confirmation 6/3/04 @ 1510		Loose	Brown	0' – 0.4' – SAND – ORGANIC ROOTS, trace gravel. Mostly fine-medium sand, trace coarse sand, poorly graded, 1 – 2 pieces subrounded gravel to ¼"	SP	Root material; dry Fill		
1										0.0	0.0
						Tan-Brown	0.4' – 1.2' – SAND and GRAVEL. Fine to coarse sand, well graded, fine and coarse subangular gravel to 1", roots	SW/ GW			
2										0.0	0.0
		2' / 2'	OU6-SO-DPW-308-0204 Screening 6/3/04 @ 1515				0' – 1' – SAND, some gravel, trace silt. Fine to coarse sand, well graded, fine subangular gravel to ½", glass, broken quartz pebbles	SW	Dry; fill	0.0	0.0
3											
						Black-Brown and Gray-Red	1' – 2' – SAND, some gravel, fill. Fine to coarse sand, well graded, fine and coarse subangular gravel to 1", glass, ash, slag, charcoal		Dry; fill Oxidized portion at bottom 3.5' – 4'	0.0	0.0
4											
		1.5' / 2'	OU6-SO-DPW-308-0406 Screening 6/3/04 @ 1520				FILL material, with sand sized particles. Fill similar to above with more coal visible, along with ceramic tile fragments, concrete in nose.	Fill	Fill, no visible PACM	0.0	0.0
5											
									Dry		
6											
		1.3' / 2'	OU6-SO-DPW-308-0608 Screening and Confirmation 6/3/04 @ 1635			Red-Brown	0' – 0.3' – FILL with sand sized particles, ash, ceramic tile, glass, ash, charcoal		First attempt-no recovery. Drill 2nd hole, no samples 0'-6', used closed piston sampler. Drilled 3rd and 4th hole-refusal, success at 5th	0.0	0.0
7					Soft	Black	0.3' – 0.6' – SAND, trace silt. Fine sand, poorly graded (spongy). Possibly organic	SP/ Fill		0.0	0.0
					Loose	Gray-Brown	0.6' – 1.1' – SAND, trace gravel. Fine-medium sand, poorly graded, fine subrounded gravel to ½", glass		Wet	1.0	0.0
8							1.1' – 1.3' – Silty fine SAND, trace gravel, 1 – 2 pieces coarse subrounded gravel to 1"	SM	Saturated	0.0	0.0

TYPE OF DRILLING RIG: Geoprobe LT54 (Track Rig)
METHOD OF ADVANCING BORING: Direct Push Technique
METHOD OF SOIL SAMPLING: Macro-Core; Open Tube; Continuous sampling in 2' intervals
METHOD OF ROCK CORING: N/A
GROUNDWATER LEVELS:
OTHER OBSERVATIONS:

Note:
No full suite analysis per screening results. Closed piston sampler used at 6' to EOB – multiple holes
PACM – Potential asbestos containing material

Tetra Tech NUS, Inc.

BORING LOG FOR:	Raymark OU6 RI/FS			BORING NO.:	DPW-308
PROJECT NO.:	N1369			START DATE:	6/3/04
LOGGED BY:	K. Jalkut	TRANSCRIBED BY:	RAC	COMPLETION: DATE:	6/3/04
DRILLED BY (Company/Driller):	Aquifer Drilling and Testing/S. Przybylski			MON. WELL NO.:	N/A
GRD. SURFACE ELEVATION:		ELEVATION FROM:		CHECKED BY:	JL

DEPTH (FEET)	BLOWS PER 6"	SAMP REC. / SAMP LENG.	SAMPLING TIME & SAMPLE NO. (QA/QC STATUS)	DEPTH MAT'L CHG./ WELL PROF'L	SOIL DENSITY/ CONSIS. or ROCK HARD.	CLR	MATERIAL CLASSIFICATION	USCS or ROCK BRKN	REMARKS (moisture condition; odors; geological classification; rock weathering; etc.)	FIELD SCREENING DATA *METHOD* = [FID, (PPM)]	
8	NA									**FID**	**PID**
		1.2' / 2'	OU6-SO-DPW-308-0810 Screening 6/3/04 @ 1640		Soft	Gray-Brown	0' – 0.6' – Similar to above, with silty SAND, trace gravel	SM	Saturated	0.0	0.0
9					Loose	Gray	0.6' – 1.2' – SAND, trace gravel. Fine-medium sand, poorly graded, fine subrounded gravel to ½"	SP	No man-made debris observed, native material, saturated	0.0	0.0
10					↓	↓	↓	↓	↓	↓	↓
		1.4' / 2'	OU6-SO-DPW-308-1012 Screening 6/3/04 @ 1650		Medium Dense	↓	SAND. Mostly fine sand, trace medium sand, poorly graded	↓	Saturated, native material, organic odor, possible methane	0.0	0.0
11					↓	↓	↓	↓	↓	↓	↓
12					↓	↓	↓	↓	↓	↓	↓
		1.5' / 2'	OU6-SO-DPW-308-1214 Screening 6/3/04 @ 1655		↓	↓	Similar to above	↓	Saturated, native material, visible bedding	0.0	0.0
13					↓	↓	↓	↓	↓	↓	↓
14					↓	↓	↓	↓	No visible PACM in boring	↓	↓
				EOB @ 14' bgs			EOB @ 14' bgs – Backfill with bentonite chips (16' – 1') and topsoil (1' – 0')				

TYPE OF DRILLING RIG:	Geoprobe LT54 (Track Rig)	Note:	*Tetra Tech NUS, Inc.*
METHOD OF ADVANCING BORING:	Direct Push Technique	No full suite analysis per screening results.	
METHOD OF SOIL SAMPLING:	Macro-Core; Open tube; Continuous sampling in 2' intervals	Closed piston sampler used at 6' to EOB – multiple holes	
METHOD OF ROCK CORING:	N/A	PACM – Potential asbestos containing material	
GROUNDWATER LEVELS:			
OTHER OBSERVATIONS:		BORING NO.: DPW-308	PAGE: 2 OF 2

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