

APPENDIX C

Soil Logs & Well Construction Diagrams

- C-1: Geoprobe Soil Logs
- C-2: Cone Penetrometer Testing (CPT) Soil Logs
- C-3: Subsurface Drilling Soil Logs & Well Construction Diagrams
- C-4: Test Pit Logs – OU 1

Soil Boring Log

Boring No: 1

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 4/12/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

9.5-F

water depth / time:

drilling method: Zota sonic

GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Asphalt

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan	
1		5/5			0.0	5016	0-1.5 Asphalt + Subbase
						4908	1.5-3.5 olive Green w/ some turquoise green
2					6.0	5094	M. sand w/ some silt. Tight, non-cohesive
						5115	Some small oval cobbles
3					9.2	5071	3.5-6 Brown M-sand w/ some silt.
						5200	Tight, non-cohesive - moist
4					5.0	5324	6-7.5 Black M-sand w/ some silt
					0	5445	loose, non-cohesive
5					4.9	5301	* 7 1/2' 1/2" to 1" Layer of Black peat
						5291	Small Am't wood
6					10'	5277	7.5-8.25 Dark Gray to Black silty clay
						5231	w/ trace v.f. sand. Tight cohesive
7					15.0	5319	8.25-9.5 Mottled light brown/light gray
						5199	silty clay w/ f- to v.f. sand. Tight
8					43.4	5490	semi-plastic
					7.5	5332	
9					8.5	5858	9.5-10 M.C. light gray silty/trace silt
						5260	loose, non-cohesive. cut @ 9.5-F
10					41.2	5477	
						5288	

Background F2014 = 5101

* Back Ground AEO = 0.7



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Soil Boring Log

Boring No:

1

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/12/03

page: 2

time:

of: 2

by: J. Van Udenitz

water depth / time:

water depth / time:

drilling method: ROTASONIC
GP 24-300 RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well casing construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
10		5/5	10		72	5444
11			11		72	5466
12					72	5235
					148	5074
13					114	5020
						5109
14						5319
						5499
15						5530
						5621

10-11 Black Silty Clay w/ Trace Sand
+ tight, plastic.

11-13 m.c. Light Gray Sand w/ Trace
silt. Loose, non-cohesive

13-14 Very fine light Gray Sand w/ Some
silt. Tight non-cohesive

14-14.2 C-Light Gray sand

14.2-14.5-
Red Brown/light Gray mottled
silt & very f. sand w/ some clay.
tight, semi-cohesive

14.5-15
Black silty clay w/ very f. sand.
tight, semi-plastic

End of Borehole @ 15-ft

Soil Boring Log

Boring No: **2**

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: **11/12/05**

page: **1**
of: **2**

time:

by: **J. Von Uderitz**

water depth / time:

water depth / time:

drilling method: **Rotasonic**
GP 24-300RS

diam: **4-inch**

start/finish:

surface conditions:

Asphalt - Road

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample Well Recovery Construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1		S/S			2.6	5149	4-1.5 Asphalt + Subbase
						6271	1.5-5.5 Red Brown w/ trace light gray
					1.1	6174	m-sand w/ some silt. Loose, non-cohesive
2						6069	moist
			2-3			6141	5.5-6.5 S.A.A w/ more silt
					1.7	5906	6-6.75 Black + Light Gray
3						5581	very f-sand + silt. Tight, non-cohesive
					3.3	5485	6.75-8.5 M-L Light Gray sand w/ some
4						5579	silt.
					5-6	5603	8.5-9.25 Dark Gray + Brown silty clay
5		S/S				5453	w/ some m-sand. Tight, plastic.
					3.4	5607	9.25-9.5 Black sand
6						5603	9.5-11 S.A. 8.5-9.25
					19.3	5940	
7						5554	
					46.7	5581	
8						5587	
					5.9	5603	
9						5603	
					12.9	5603	
10						5564	

Fidler Back 5531



Boring No:

2

Boring Location info:

043, A0I 4, A0C 6

Project:

Proj. No.

OU3 Phase 2

date: 10/12/05

page: 2

time:

of: 2

by: J. Von Uderitz

water depth / time:

water depth / time:

drilling method: ZOTA SONIC
6P24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

TD = 15 BGS



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Soil Boring Log

Boring No:

3

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11/12/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

9.5 - Lt

water depth / time:

drilling method: Rotasonic

GP 24-300 RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		5/5			7.8	5770 6437 9930
2					3.3	13076
3			25 35		4.7	18263 23314 25587
4					5.9	15181 7963
5		0 5/5			10.1	6124 10107
6			5.5 6.5		10.5	14922
7					3.8	11327 11536
8					9.3	9160 7203
9					20.6	6408 6052
10					23.3	5846 5911

0-1 Asphalt + subbase
1-4.5 M-Brown w/ some light Gray sand
w/ some silt. Loose, non-cohesive

4.5-5.5 Reddish Peat w/ some wood
5.5-7 S.A 1-4.5

7-8 very F-sand (light Gray) w/ some
silt.

8-9 mottled Dark Gray + Light
Brown very F-sand. Tight, non-cohesive

9- incl Sand (light Gray + light
Brown) Loose, non-cohesive. bet 9.5



Boring No:

3

Boring Location info:

043, A0I 4, A0C 6

Project:

Proj. No.

OU3 Phase 2

date: 11/12/05

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

11-24

water depth / time:

drilling method: ZOTA SONIC
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Asphalt - Road

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

10-11 Black plant and moss, some sand.
wet @ 11-14

100

11-14 COARSE Brown & Sand in Sand
Large rounded stones, some grey sand

14.14.5 Dark Gray very f. sand w/ trace silt
coarse, non-cohesive

14.5-15' Brown f-sand & some silt. T. zone
non-cohesive

TD: 15 BGS

Filler - 5514



Boring No:

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11/12/05
time:

page: 1
of: 2

by: J. Von Uederitz

water depth / time:

water depth / time:

drilling method: *Rotasonic*
GP 24-300 RS
 diam: *4-inch*
 start/finish:

surface conditions:
Asphalt - Road
elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well description construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
		5/5			4.4	6116 13588	
		1 2	1-5	7.1		57702	
			2-8		103320		
					55437		
					2483		
					6.5	18697	
					5.6	11608	
		V			9.8	9343	
						6702	
		4/5	5.5		29.1	11609	
			6.5			18741	
		1 2			20.2	15396	
						24.9	7719
						26.3	6407
							6544
						6211	
						6030	

0-1 Asphalt + Subbase
1.5- olive Green siltier sand silt.
1.5-4.5 Red Brown + Light Brown M-Sand ✓
Some silt. Loose, non-cohesive
4.5-5 Black Pearl
5-7 S.A. 1.5-4.5
7-9 Light Gray/Light Brown Silt
w/ Some very f. sand. Tight semi-cohesive
(7.75-7.95 Brown M-sand)
9-10 no recording

9-10 по Гелован

5716



Boring No:

4

Project:

Proj. No.

OU3 Phase 2

date: 11/12/08
time:

page: 2

of: 2

by: J. Von Uderitz

water depth / time:

water depth / time:

drilling method: ROTARY
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

Soil Boring Log

Boring No: 5

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/11/05

time:

page: 1

of: 2

by: J. Von Uderitz

water depth / time:

8-FT

water depth / time:

drilling method: Rotasonic

GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample Well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		5/5			31	4878
1						4955
2			2.3		2.1	5477
2						5226
3					0.4	5377
3						5246
4					0.7	5113
4						5001
4						5206
5		0			0.9	4961
5						5246
6		5/5			4.	5051
6						5057
7					1.6	5104
7						5064
8					1.5	5246
8			8.9			5734
9					10.6	5648
9						5157
9		0			0.5	4912

0-1.5 Asphalt & subbase
1.5-6 orange Brown + Brown M-Sand w/
Some silt. small bits of light gray
very F-sand w/ trace silt. Damp
(4.75 1/2" to 1" layer of Black Dirt)
6-7.5' Light Gray/orange Brown mottled
F-M sand w/ trace silt. tight, non-cohesive
7.5-7.75 Brown M-C sand w/ some
silt. loose, non-cohesive
7.75-8.5 S.A. 6-7.5 wet @ 8 ft
8.5-9 S.A. 7.5-7.75
9-10 F-Light Gray Sand w/ some silt. Tight
non-cohesive. some rounded pebbles

Background FIDLER = 4579



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Soil Boring Log

Boring No: 5

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11/1/02

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: Rotasonic
GP 24-300RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
0		<u>S</u>				<u>5286</u>
1		<u>S</u>			<u>9.9</u>	<u>5293</u>
2					<u>10.9</u>	<u>5144</u>
3						<u>4891</u>
4					<u>9.3</u>	<u>4852</u>
5						<u>4760</u>
6					<u>45.2</u>	<u>4789</u>
7						<u>4749</u>
8					<u>43.0</u>	<u>4605</u>
9		<u>TD</u>				<u>4012</u>
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

10-11 Orange Brown/Light Grey mottled very f-sand
w/ some silt. Tight, some cohesion

(10.5-10.7) (Black Peat)

11-13 Orange Brown n-c sand w/ Trace silt
Loose, non cohesive

13-15 C-Light Grey Sand w/ some
rounded pebbles, trace silt. Loose, non cohesive

TD = 15 BLS

Soil Boring Log

Boring No: 6

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11/11/05
 time:

page: 1
 of: 2

OU3, AOI 4, AOC 6

by: J. Von Lidenitz

water depth / time:

9.5-Ft

water depth / time:

drilling method: Rota Sonic
GP 24-300RS
 diam: 4-inch
 start/finish:

surface conditions:
Road - Asphalt
 elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1		<u>5/5</u>			<u>1.6</u>	<u>4903</u>	<u>0-1.5 Asphalt + Subbase</u>
						<u>5262</u>	<u>1.5-</u>
			<u>1.5</u>		<u>1.5</u>	<u>5258</u>	
2			<u>2.5</u>			<u>6229</u>	<u>* Ran Fidler Again = 6002 @ 1.5-2.5 Ft</u>
					<u>3.2</u>	<u>5217</u>	
3						<u>5155</u>	
					<u>3.7</u>	<u>4959</u>	<u>3.5-4 Black Sand + Gravel</u>
4						<u>5354</u>	<u>4-4.5 Dark Gray, very f. sand w/ silt. tight non-cohesive. moist</u>
					<u>4.8</u>	<u>5310</u>	<u>4.5-5.5 Red Brown w/ small amt light gray mottled silty clay w/ sand. Tight, plastic</u>
5						<u>5141</u>	<u>1.5-5-5.5 - not as clayey (clayey-silt)</u>
					<u>9.1</u>	<u>5101</u>	
6						<u>5110</u>	<u>5.5-7 m-c Orange Brown Sand w/ trace silt</u>
					<u>13.4</u>	<u>4908</u>	
7						<u>5093</u>	
					<u>14.2</u>	<u>5578</u>	<u>7-8 Light Gray Orange Brown + Brown mottled very f. sand + silt. Tight non-cohesive</u>
8						<u>5234</u>	
					<u>25.3</u>	<u>4924</u>	<u>8-9 Brown m-c sand w/ trace silt. loose, non-cohesive</u>
9						<u>5001</u>	<u>9-9.5 Light Gray/Light Brown mottled f. sandy silt. tight. semi-cohesive</u>
					<u>23.5</u>	<u>5075</u>	
10						<u>5113</u>	<u>9.5- Red Brown m-c sand w/ trace silt. wet</u>

FIDLER BACK ground 4606



Boring No:

6

Project:

Proj. No.

OU3 Phase 2

date: 6/11/05

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

9.5. Pr

water depth / time:

drilling method: ROTASONIC
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

10-13 Brown M-sand w/ some silt. coarse
non-cohesive

13-13.25 Gray + Red Brown mottled silt, clay w/ sand

13.25-14 Gray M-sand w/ trace silt. loose
non-cohesive

14-14.5 orange Brown / light Gray mottled
F-sand w/ some silt + silt. Non-cohesive

14.5-15 Light Gray F-sand w/ some silt
+ silt non-cohesive

TD = 15 BGS

Soil Boring Log

Boring No: **7**

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: **11/11/05**

page: **1**

time:

of: **2**

OU3, AOI4, AOC6

by: **J. Von Lidenitz**

water depth / time:

7-Ft

water depth / time:

drilling method: **Rota sonic**

GP24-300RS

diam: **4-inch**

surface conditions:

Gravel along Road

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		4/5			0.0	4952
						5708
			1.5	5.6		5187
2			2.5			5696
					5.6	5567
3						5486
					5.9	5524
4						5571
5					9.2	5224
						5430
6					12.6	5293
						5531
7					13.9	5522
						5533
8			8.5		29.3	5678
			9.5			5719
9					69.3	5454
						5304
10						

0-1.5 Limestone Gravel + Coarse sand.

1.5-3.5 Orange Brown M-sand w/ some silt
tight, non-cohesive. moist. trace quartz
pebbles

3.5-7.5 Dark Gray m-sand w/ silt. Tight
non-cohesive

@ 6-Ft trace Clay

Wet @ 7-Ft

7.5-8 M-Brown sand w/ some silt
loose, non-cohesive. moist

8-8.5 mottled light Gray + Red Brown
very F-Sand + silt. Tight, non-cohesive

8.5-10 M-L Light Gray Sand w/ trace
silt. Loose, non-cohesive

Final Back ground = 4942

Soil Boring Log

Boring No:

7

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date:

page: 2

time:

of: 2

by: J. Van Udenitz

water depth / time:

water depth / time:

drilling method: Rota Sonic

GP 24-300 RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery consolidation	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0		5/5			13.5	5557
1						5621
2					13.1	5710
3						5253
4					12.9	5225
5						5280
6					66.0	5383
7						5690
8					64.9	5840
9						5638
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

10-10.5 Dark Gray Silty clay w/ some sand - Tight, Plastic

10.5-11 Gravel + Sand

11-13.25 Gray M-C Sand. Loose non-cohesive

13.25-13.75 Light Brown Coarse Sand w/ some pea gravel. Loose, non-cohesive

13.75 1/4" lens f. Light Gray Sand.

13.75-15 Black peaty silty clay tight, non-cohesive

END OF Borehole @ 15 BGS



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Soil Boring Log

Boring No: 8

Boring Location info:

043, A014, A066

Project:

043 Phase 2

Proj. No.

date: 11/11/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

9-FT

water depth / time:

drilling method: Rotasonic

GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Gravel, next

to Road

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery concentration	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1		S/S			0.3	5653	0-1.5' small round Gravel and C-Sand
2			1.5		2.1	5515	1.5-3.5' Light Brown Very F-Sand + silt.
3			2.5		3.4	5705	tight, non-cohesive. Moist, Some Small
4					4.8	6266	rounded Cobbles. Trace Brick @ 2.5-FT
5					7.2	6336	3-3.5' M-C Light Brown sand, tight, non cohesive
6					13.5	5929	3.5-7' Black + Dark Gray Mottled
7					20.1	5984	Very F-Sand + silt. Tight, non-cohesive. Moist
8					75.5	5917	Trace Brick @ 5.25-FT
9						5991	7-8.5' Light Gray + Light Brown Mottled
10						5765	Very F-Sand + silt. Tight, non-cohesive.
						5950	Moist
						5756	8.5' M-C gray sand wr trace
						5705	silt. Loose, non-cohesive. wit egr
						5720	
						5856	
						6061	
						6209	
						5739	
						5693	
						5706	

* Blind Duplicate Sample
1.5-2.5

Back ground FIDLER: 5743



Boring No:

3

Boring Location info:

043, A0I 4, A0C 6

Project:

Proj. No.

OU3 Phase 2

date: 11/4/05

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: ROTASONIC
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Gravel, next to Road

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

~~*~~ Sample 10-11 Blind Duplicate
TD = 15 BGS

Soil Boring Log

Boring No: 9

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11/11/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

9-Ft

water depth / time:

drilling method: Rotary Sonic

GP 24-300RS

diam: 4-inch

surface conditions:

Gravel, ~~fine~~ sand, no silt

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
1		4/5			1.8	5786
						5722
						5675
2					3.8	5822
						5756
3					0.7	5766
						5780
4					5.6	5782
			4'			6157
5			5'		4.7	6073
						5823
6					10.8	6120
						5888
7					17.5	5831
					2	5801
8					2	5841
						5695
9					6.4	5881
					34.8	5721
10						5610

0-1.5 Asphalt Subbase
1.5-4 Light Brown M-sand w/ ^{rounded} pebbles. Loose, non cohesive. Damp
4-4.5 Gray very f-sand + silt. Tight
Semi-cohesive. Moist
4.5-7 Light/Dark Gray Mottled
very f-sand + silt. Tight Semi-cohesive.
Damp
7-8 M-Gray Sand w/ trace silt
Loose, non cohesive
8-9 Light Gray + Light Brown
mottled very f-sand/silt. Tight
non-cohesive.
9- Light Brown + Light Gray
M-sand w/ some silt. Tight, non-cohesive
wet @ 9-Ft

FIDLER Background 5767

Soil Boring Log

Boring No: 9

Boring Location info:

OU3, AOI, AOC

Project:

OU3 Phase 2

Proj. No.

date: 11/11/05

page: 2

time:

of: 2

by: J. Van Udenitz

water depth / time:

water depth / time:

drilling method: Rotasonic
GP24-300RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well casing construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0			10'			6101
1		9/5	11'		12.9	6255
2					12.7	6674
3					12.7	5532
4					12.7	5560
5					12.7	5425
6					12.7	5323
7					12.7	5647
8					12.7	5662
9					12.7	5668
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

10-11 Gray silt w/ very f. sand. Tight
Semi-cohesive. wet

11-12.75 Light Brown M-Sand w/ some silt
Loose, non-cohesive

12.75-13.5 COARSE SAND w/ pebbles
Loose, non-cohesive

13.5-14 Light Brown very f. sand + silt
tight, non-cohesive

14-15 m-gray sand w/ trace silt.
Loose, non-cohesive

End of Borehole @ 15 Bbs

Soil Boring Log

Boring No: **10**

Boring Location info:

043, A0I4, A0C6

Project:

043 Phase 2

Proj. No.

date: **11/11/05**

page: **1**

time:

of: **2**

by: **J. Von Uderitz**

water depth / time:

8.5-Ft

water depth / time:

drilling method: **Rotasonic**

GP24-300RS

diam: **4-inch**

surface conditions:

Gravel near Road

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		S/S			2.1	5915
						5656
						5754
2					4.6	5670
						5795
					4.9	5688
						5892
					5.3	5926
						6061
					4.5	5943
						6049
		S/S			9.1	5948
						6004
					2.1	6042
						6267
			7.8		3.5	6294
						6079
					7.3	5799
						5801
					A.2	5718

0-1 Small Gravel + Light Brown C-Sand w/ some rounded gravel. Damp

1-3.5 Black Coarse sand w/ rounded cobbles loose, non-cohesive. Damp

3.5-4.5 Light Brown M-Sand w/ some silt. Tight, non-cohesive, moist

4.5-5 Light Gray silt w/ F-Sand tight, non-cohesive, moist

5-6.5 Light brown m-sand w/ some silt loose, non-cohesive

* 5.75-6.00 Black m-sand w/ gravel

6.5-8 Light Gray + Light Brown mottled silt + F-Sand. tight, non-cohesive

8-10 M-C gray + brown Sand loose, non-cohesive. Some large stones wet 8.5-Ft

Rock Gravel FIDLER - 5626



Boring No:

10

Project:

Proj. No.

OU3 Phase 2

date: 11/11/05

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: ROTASONIC
6P24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

$T_0 = 15 \text{ s}$



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Soil Boring Log

Boring No: **11**

Boring Location info:

043, A0I4, A0C6

Project:

043 Phase 2

Proj. No.

date: 11/11/05
time:

page: 1
of: 2

by: J. Von Uderitz

water depth / time:
10-ft

water depth / time:

drilling method: Rotasonic
GP 24-300RS
diam: 4-inch
start/finish:

surface conditions:
Small Gravel, near Road
elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1		4/5			2.5	5882	0-1 Small Gravel, Limestone Rocks & Black C- sand.
						5869	
2			1-2		5.2	6527	1-5 Tight Light Brown M-sand w/ some silt. Non-cohesive. Moist. Trace, small Gravel
						6582	
3						6006	3-3.5 Some light Gray/Light Brown mottled F-sand w/ silt. Tight, non-cohesive
						5386	
4					6.7	5823	5-6.75 Brown silty clay w/ some sand. Tight Plastic.
						5533	
5							5.75-6 Black Sand + Gravel
							6.6-25 Red Brown m-sand
6							6.25-8 Light Brown + Light Gray mottled F-sand + silt. Tight, non-cohesive
		5/5			5.3	5980	8-9 M-C Light Brown m-c sand w/ trace silt. Loose, non-cohesive
						5939	
7					5.6	5980	
						6429	9-9.5 S.A.A. except Light Gray
8					3.3	6228	9.5-10 m. Red Brown Sand w/ trace silt. Loose, non-cohesive
						5986	
9					4.4	5891	
						5553	
10					11.2	5514	
						5288	

Back Gravel fidler - 5528



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Soil Boring Log

Boring No:

11

Boring Location info:

043, AOI, AOC

Project

043 Phase 2

Proj. No.

date: 11/11/05

page: 2

time:

of: 2

by: J. Von Udenitz

water depth / time:

16 FT

water depth / time:

drilling method: ~~Rotary~~ sonic

GP 24-300RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery contribution	sample depth	sample no.	OVA (ppm)	FIDLER Scan
0			10		2.4	6232
1		1/5	11			6041
2					30	5489
3						5386
4					6.1	5461
5						5459
6					2.9	5728
7						5992
8					29.9	5663
9		1/2				7668
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

10-10.5 Light Brown very F. Sand / Sand
silt. Tight, non-cohesive. Wet

10.5-13 M-c Light Brown Sand w/
trace ~~silt~~ silt. Loose, non-cohesive

13-16 Light Gray / light Brown Very F. Sand
& silt. Small amt mottling. Loose,
non-cohesive

End of Borehole @ 15-Ft

Soil Boring Log

Boring No:

12

Boring Location info:

OU3, AOI 4, AOC6

Project:

OU3 Phase 2

Proj. No.

date: 11/12/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

11.5 ft

water depth / time:

drilling method: Rota sonic

GP 24-300 RS

diam: 4-inch

surface conditions:

Gravel - Near Road

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery correction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
0		5/5	0		2.2	6604
1			1			6604
2					2.9	6131
3						5936
4						5729
5					3.6	6100
6						5857
7					6.6	6007
8						5898
9					4.5	6070
10					8.3	6335
						6309
					24	6517
						6377
					51.2	6212
						6303
						5888
					67	5549
					49.1	5642
						5553

0-1 Small Gravel + Black Sand

1-2.5 M-Brown Sand w/ Some medium Randed Cabbles Dng

2.5-4.5

Orange Brown M-sand w/ Some silt. Loose non-cohesive. Wet @ 4.5-FT

Some light Gray Very f. Sand w/ Some silt.

4.5-5 Black peat

5-6 Very fine Black sandy some silt. High non-cohesive

6-6.25 Black peat Black silty clay w/ trace sand. + trace plastic

6.25-8 Light Gray M-sandy some silty clay.

8-8.5 Dark Brown M-C sand w/ trace silt. Loose, non-cohesive

9-10.5 Light Brown m-c sand w/ trace silt. Loose, non-cohesive

FIDLER Background 5738



Boring No
12

OU3 Phase 2

page: 2

of: 2

by: J. Van Lieritz

water depth / time:

water depth / time:

drilling method: LOTASONIC

6P24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

10.5-12 Light Grey m-c Sand w/ some
silt. clay, no cohesive

12.14 Light Brown / Light Grey
mottled very fine sand & some silt
light red. Chert. 20.

14-15 Light Gray F. Sand → some SILK
light nov. adhesive

TD = 15 BGS

Soil Boring Log

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date:

4/12/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

9-ft

water depth / time:

drilling method: Rotasonic
GPZ4-300RS

diam: 4-inch

start/finish:

surface conditions:

Gravel - near Res

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
0.0	0.0	5/5				5812
0.0	0.0	5/5				6304
0.0	0.0	1			2.4	6031
0.0	0.0					6036
0.0	0.0				4.5	5909
0.0	0.0					5865
0.0	0.0				6.6	5897
0.0	0.0					5826
0.0	0.0				3.1	5921
0.0	0.0	5/5				5971
0.0	0.0	5/5			8.0	6275
0.0	0.0					6271
0.0	0.0		6.7		3.1	6382
0.0	0.0		7			6405
0.0	0.0				23.9	6118
0.0	0.0					6087
0.0	0.0				7.7	5900
0.0	0.0					5803
0.0	0.0				19.1	5925
0.0	0.0					5605

0-1 small Gravel + Sand

1-5 Light Brown Coarse Sand w/
many Rounded Cabbles. moist

* some very f-fine sand @ 3.5-ft

5-6.5 Black silty clay w/ trace sand
tight, plastic6.5-8 Light Gray very f-sand w/ some
silt. tight non-cohesive8-9 M. Brown / Gray sand w/ some
small Gravel. wet @ 99-10 Coarse Brown Sand w/ trace
silt loose, non-cohesiveFIDLER - 5946 ~~5605~~



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Soil Boring Log

Boring No

13

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11/12/05

page: 2

time:

of: 2

by: J. Van Udenitz

water depth / time:

water depth / time:

drilling method: Rota Sonic
GP 24-300 RS

surface conditions:

diam: 4-inch

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Reuse & log construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

10-11 Black silty clay & very
F-sand tight, semi-plastic

11-13.5 Coarse Brown & Gray
sand w/ some rounded cobbles
loose, non-cohesive

13.5-14.5
light Brown/light Gray medium
very F-sand w/ silt. Tight
non-cohesive

14.5-15 Red Brown coarse sand
w/ some very f. Gray sand

TD: 15 fgs

Soil Boring Log

Boring No:

14

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/12/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

4.5

water depth / time:

drilling method: Rotasonic
GP 24-300 RS

surface conditions:

Gravel

diam: 4-inch

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan	
0	0-0.5	4/5				6263	0-1 Gravel + Sand
1	0-0.5	5				6093	1-2 VOID
2	VOID					-	2-4.5 Light Brown M-L Sand w/ Some silt. Semi-tight, non cohesive wet @ 4.5-FT
3					5.3	6135	
4						6022	
5					6.1	6057	4.5-5 Black pent up very f. sand Tight, non-cohesive. Moist
6					9.5	6157	5-6.75 M-Brown + Black Sand w/ trace silt. Loose, non-cohesive
7						6377	
8					2.8	6324	6.75-8 Light Gray Very f. Sand w/ some silt. Tight, non-cohesive
9					4.2	6486	8-9 M-Brown Sand w/ some silt. Loose, non-cohesive
10					29.9	6567	9-9.5 mottled light Gray/light Brown f-sand + silt. tight, semi-cohesive
					35.4	6292	9.5-10.5 C-M Brown Sand w/ trace silt. Loose, non-cohesive
					44.5	6314	
						6069	
						6097	
						5744	
						5865	
						5742	

FIDLER Backhaul - 6201

Soil Boring Log

Boring No: **14**

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: **4/12/05**

page: **2**

time:

of: **2**

by: **J. Van Udenitz**

water depth / time:

water depth / time:

drilling method: **Rotasonic**
GP 24-300 RS

surface conditions:

diam: **4-inch**

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
0						
1		5/5	16-11		55.8	6222
2					82.1	6655
3						5557
4					14.4	5774
5						5626
6					25.4	5472
7						5394
8					34.4	5302
9						5960
10						6205
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

10.5 - 13.5 M-C Gray + Brown sand w/ trace silt. Loose, non-cohesive.

13.5 - 14.75 Light Gray / Red Brown mottled clay f-sand w/ some silt. Tight, non cohesive

14.75 - 15.00 Light Gray silty clay w/ trace v. f-sand. Tight, Plastic

TD: 15 BGS

Soil Boring Log

Boring No: 15

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/13/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

8.5

water depth / time:

drilling method: Rotasonic
 GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Small Gravel, Near Road

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
1		4/5		1.3		5320
2						5309
3				3.1		5287
4						5433
5				4.9		5268
6						5572
7						5587
8				6.7		5422
9						-
10						-
11						-
12						-
13						-
14						-
15						-
16						-
17						-
18						-
19						-
20						-
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87						-
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89						-
90						-
91						-
92						-
93						-
94						-
95						-
96						-
97						-
98						-
99						-
100						-

0-1 Small Gravel + Coarse Sand

1-3.5 Red Brown M-Sand w/ Some silt. Loose, non-cohesive, moist

3.5-6 Dark Gray Very F-Sand w/ Some silt, clay + light semi-plastic + semi-cohesive, Moist

6-7 Red Brown / light Gray mottled silt, clay w/ trace sand. Tight, plastic

7-8 Red Brown M-Sand w/ trace silt. Loose non-cohesive

8-8.5 Light Gray / Red Brown mottled Very F-Sand + silt. Tight, non-cohesive

8.5-10 Light Gray M-L Sand w/ trace silt Loose, non-cohesive wet @ 8.5 ft

(9.9.25 S.A. 8-8.5)

Field Borehole: 5514



Boring No

15

Project:

Proj. No.

OU3 Phase 2

date: 6/13/05

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: ROTASONIC
LP 24-300RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	diam: 4-inch	elevation:
							start/finish:	
Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.								
0		5			4.2	5582	10-11	Red Brown + Grey M-Sand w/
		5	10.5			5785		Some silt. Loose, non-cohesive
1			11.5		6.0	5-636	11-15	M-L Grey Sand, Loose, non-cohesive
						5311		(14-14.2 Fines sand)
2					6.8	5125		(13.3-13.4 Coarse Sand)
						5109		
3					48.3	5384		
						5357		
4					59.6	5452		
						5298		
5								END OF Borehole @ 15 BGS



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Soil Boring Log

Boring No:

16

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/13/05

page: 1

time:

of: 2

by: J. Von Lidenitz

water depth / time:

10-ft

water depth / time:

drilling method: Zota sonic

GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Gravel, Main Road

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery contribution	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		3/3			2.2	5501
						5737
					4.1	5479
2						5591
					3.3	5567
3						5408
		5/6			7.5	5501
4						5574
					7.1	5471
5						5593
					6.9	5465
6						5644
						5969
7			6.5		7.7	6290
			7.5		8.3	5759
8						5478
					9.1	5535
9						5517
					-	-
10					-	-

6-1 Gravel + Coarse Sand

1-4 Reddish Brown w/ trace Grg

f-m Sand w/ some silt. Loose
non cohesive. Damp

4-5 Black + Brown f-m silty Sand
moist, tight, non-cohesive

5-5.5 Mottled Red Brown / light Grg
m-sand w/ some silt. Tight, non-cohesive

5.5-6 Brown m. Sand w/ trace silt
Loose, non-cohesive

6-7 S.A. S-S.S

7- Brown M-C Sand w/ trace
silt Loose, non cohesive

*trace Gray clay @ 8.5

FIDLER Background: 5545



Boring No

160

Project:

Proj. No.

043, A01 4, A06

OU3 Phase 2

date:

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

10. ET

water depth / time:

drilling method: ROTA SONIC

6P24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0		5/5	10.5		17.2	5371 5820
1			11.5			5422
2					5.4	5477
3					7.5	5276 5147
4					10.3	5507 5475
5					17.2	5398 5352

5-11 Light Gray / Brown f-m sand w/ some
5-14. Wet. loose, non-cohesive
trace Black part @ 10.5-ft

11-15

M-C Gray Sand w/ some silt.
semi-tight, non-cohesive

FD: 1586J



Soil Boring Log

Boring No:

6SB17

Boring Location info:

AOC 6 AOI 4
East Road Area
Near Ditch

Project:

OU3 Phase 2

Proj. No.

date: 11-16-05

page: 1

time:

of: 1

by: Ken Marion

water depth / time:

3.5

water depth / time:

drilling method: hand auger

diam: 3" auger head ss

surface conditions: loose gravel

start/finish: 0825/0840

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	well construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan	
1	ML					6724	Grayish brown sandy silt with a little gravel, moist
						6570	
2	SP					6564	Pale brown very fine sand with trace clay, moist
						6656	
3	SP	X				8254	olive brown sand as above
	SP					9410	
4	SC					7511	Pale brown fine sand, moist
						5914	olive brown clayey fine sand, wet, a little brown and dark gray mottling, trace gravel
5	CL	X				5204	white and black silty clay, moist, low plasticity, some fragment
5.5	CL					4890	
						4764	Black silty clay, moist, low plasticity, a little white mottling and organic matter
6							Bottom of Borehole at 5.5 ft bgs
7							FIDLER Background = 4872
8							50 lbs. high solids grout, hydrated
9							

Soil Boring Log

Boring No:

17A

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/13/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

3 ft

water depth / time:

drilling method: Zota sonic
GP 24-300RS

diam: 4-inch

surface conditions:

covered

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery constatution	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1		5/5			1.0	4814	0-2 Coarse Gravel and Coarse Sand
2					2.4	4862	2-6 Black very f. sand w/ some silt
3			3.5		5.6	4903	silty clay, tight, semi-cohesive.
4			4.5		15.3	5125	wet @ 3'. Trace rounded cobbles
5						5383	trace twigs + black peat.
6						6644	trace white (very f. sand) tight non-cohesive
7						5797	silt size material
8						4842	6-8 Black very f. sand w/ some silt
9						5919	mottled w/ white silt size material
10						5817	8-8.5 Black peat w/ roots, twigs
		5/5			13.8	6226	8.5-9.5 M-Light Gray Sand
						5232	w/ some silt. Semi-tight
						4458	non-cohesive
						4192	9.5-12 Black (petroleum saturated)
						3682	very f. sand. Loose
						4116	* Blind Dep 3.5-4.5
						4215	
						5635	
						5217	
						4193	

Back Grand fisher = 4787



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Soil Boring Log

Boring No
17A

Boring Location info:

Project

Proj. No.

OU3 Phase 2

date: 11/13/05

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: Rotasonic
GP 24-300RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample Well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
0		5/5			40.2	5031
1			10.5			5420
2			21.5		29.7	5463
3						5340
4					23.5	5305
5						5174
6					11.0	4906
7						4886
8					17.4	5013
9						5072
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

12-12.75 Black/light Gray
mottled w/ f-silt w/ some silt
t: 50. Non-cohesive

12.75-14.75

M-Gray sand w/ some silt. loose
Non-cohesive

14.75-15

Brown M-L sand, loose, Non-cohesive

TD=15 BGS

Soil Boring Log

Boring No:

65B18

Boring Location info:

AOC 6 AOI 4
 East Road area
 Near Ditch

Project: OUB Phase 2

Proj. No.

date: 11-16-05
 time:

page: 1
 of: 1

by: Ken Marion

water depth / time:
 3 ft

water depth / time:

drilling method: hand auger
 diam: 3" auger head SS
 start/finish: 0920 / 0935

surface conditions:
 loose gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1	GP					6801 6835	Pale brown gravelly fine sand, moist
2	SM					6819 7075	Gray brown silty fine sand, trace gravel
3	SC					7464 8729	clayey olive brown, brown and dark gray clayey ^{fine} sand very moist
4	SC					9519 8316	olive brown clayey sand, fine, wet
5	SC					7202 7073	Dark brown clayey fine sand with some gravel, ^{wet} white and dark gray clayey fine sand, moist
5.5	OH					6986	Dark gray silty clay moist, med plasticity, soft
							Bottom of Borehole at 5.5 ft bgs
							FIDLER Background = 6671
							50 lbs. high solids grout

Scanned / uploaded

Soil Boring Log

Boring No: **18A**

Boring Location info:

OU3, AOI 4, AOC 6

Project:

Proj. No.

OU3 Phase 2

date: **11/13/05**
time:

page: **1**
of: **2**

by: **J. Von Uderitz**

water depth / time:
3.5 ft

water depth / time:

drilling method: **Rotary**
GP 24-300 RS
diam: **4-inch**
start/finish:

surface conditions:
Gravel
elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		5/5			3.9	4981
						5672
2					3.0	4979
						5610
3					4.9	4574
						4618
4					7.6	4784
						4911
						4881
5		5/5			11.2	4550
						5213
6					1.3	5415
						5856
7					2.8	5544
						5378
8					4.6	5477
						5189
9					7.6	5148
						5639
10					7.0	4912

0-1 Gravel + Coarse Sand
1-3.5 Brown M-C Sand. Loose
non-cohesive.
3.5-6 Black very f-sand w/ some
silt. Tight, non-cohesive.
w/trace 3.5
trace white silt size material
6-7 Dark Gray/Black Mottled
very f-sand + silt. tight, non-cohesive
7-8
Black silty clay w/ some sand.
tight, plastic
8-8.5 Light Gray f-sand
w/ some silt. tight, non-cohesive
8.5-10
Brown/Gray M-C sand
w/ trace silt. Loose, non-cohesive

FIDLER Background = 4978



Boring No:

10A

Project:

Proj. No.

043, A01 4, A06

OU3 Phase 2

date: 11/13/05

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: ZOTA SONIC
6P24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0		5			6.1	5062
1		5	6.5			5212
2			9.5		2.3	5140
3					3.0	5028
4					11.4	4971
5					15.9	4950
6						4927
7						4938
8						5005
9						4980
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

TD = 15 BGS

Soil Boring Log

Boring No: 19

Boring Location info:

OU3, AOI 6, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/10/05

time:

page: 1
of: 2

by: J. Von Uderitz

water depth / time:

3'

water depth / time:

drilling method: Rotasonic
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:
Limestone Gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan	
1		S/S			34	4740	0-1.5 Limestone Gravel + coarse light brown ss. m.
						4916	
						4858	1.5-4 light brown to gray medium sand w/ some silt. loose, non cohesive. loose 3'
2					3.1	4857	
						4701	4-4.5 light gray + light brown mottled very fine sand w/ some silt. wet Tight, non cohesive
3					1.6	4648	4.5-6.5 Gray medium sand w/ trace silt. loose non cohesive, some fine clindans
						5240	
4					1.7	4860	6.5-9 Dark Gray very f. sand w/ silt
						5277	Tight, non-cohesive w/ water lines
5					1.8	4863	slight green some clindans
						5247	
6					10.3	6383	
						7226	
7					27.4	7129	
						6618	
8					22.2	5870	
						5657	
9					54.7	5171	

Background C. Dier = 4771



Boring No:

Project:

Proj. No.

043, A0I6, A0C6

OU 3 Phase 2

date:

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: ROTARY
 6P24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample # well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
0		S/S			S	52200
1			11-12		S.S.	5697
2					S.S.	6155
3					S.S.	5774
4					S.S.	52101
5					S.S.	5125
6					S.S.	5092
7					S.S.	5297
8					S.S.	5252
9					S.S.	5168

TD = 5 BGS

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Soil Boring Log

Boring No:
20

Boring Location info:
OU3, AOI 6, AO 6

Project: OU3 Phase 2		Proj. No.
date:		page: 1
time:		of: 2
by: J. Von Uderitz		
water depth / time: 3.5 - fx		water depth / time:
drilling method: Zota sonic GP 24-300 RS		surface conditions: Gravel
diam: 4-inch		elevation:
start/finish:		

depth (show units)	soil texture	Sample Well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan	Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.
1	0.0	5/5			0.4	4845	0-2 Gravel and L-sand + small Gravel
	0.0					4689	
	0.0				0.3	4968	2-3.5 Brown f-sand + silt. Tipped, non-cohesive
	0.0					4931	3.5-4 mostly Gravel w/ silt water @ 3.5'
2	0.0				1.8	4932	4-5 Brown + Gray M-sand w/ ^{silt} sand Loose, non-cohesive
						5675	5-7.5 mostly Gravel w/ Black sand
3					13.2	4888	7.5-9.5 Black Peat + wood debris
	0.0					4524	
4	0.0				5.7	5014	9.5-10 light Gray M-F sand w/ silt. Tipped non-cohesive.
						5031	
5	0.0	5/5			2.9	5052	
	0.0					5076	
6	0.0				38.5	6522	
	0.0					6831	
7	0.0				10.5	6060	
						5634	
8					21.3	5137	
						5085	
9					4.9	5163	
						5100	

Back Ground Fidler: **4963**



Boring No:

20

Project:

Proj. No.

043, A0I 6, A0C 6

OU3 Phase 2

date:

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: ZOTA SONIC
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Сорани

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample # well casing & rig construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0						
1		4.5 5	10.5		1.3	5238
2			11.5		11.8	5710
3					3.5	5783
4					10.9	5548
5					10.9	5247
6					10.9	5211
7					10.9	4953
8					10.9	4919
9					10.9	5074
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

TD: 15 BGS



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Soil Boring Log

Boring No:

21

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date:

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

water depth / time:

drilling method: Rotasonic

GP 24-300RS

diam: 4-inch

surface conditions:

Gravel

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery contribution	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		3/5			2077	5712
						5662
2					1434	5548
						5662
3					3200	5666
					2077	5777
4					1024	
					1024	
5					3200	
					2374	5891
6		5/5	5-6'			5521
					2508	5539
7						5687
					8727	5660
8						5601
					572	5391
9						5441
						5570
10					138	5310
						5653

0-1 mostly limestone Gravel w/ some medium sand. Dry, loose

1-2.5 Gray m-sand w/ some silt. wet 2-5-ft. loose, non cohesive. Some rounded stones @ 2.25-ft

2.5-3 Gray Silty clay w/ some sand. tight plastic.

3-5 - no Recovery

5-11.5
M-Black sand w/ trace silt. loose, non cohesive. Saturated

(Standing water has some resemblance of Product)

Back Ground FIDLER: 5746



Boring No:

21

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date:

page: 2

time:

of: 2

by: J. Von Uderitz

water depth / time:

water depth / time:

drilling method: Zota son: C
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

11.5-15 Black paint w/ wood debris
tight, non cohesive
Paint appears to have thin layer
of product on it

TD-15 B65



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Soil Boring Log

Boring No:
22

Boring Location info:

OU3, AOI 6, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/10/05
time:

page: 1
of: 2

by: J. Von Uderitz

water depth / time:

2.5-Ft

water depth / time:

drilling method: Rotary

GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		3/5			0.8	5488
						5391
2					12.3	5445
						5480
3					14.7	5336
						5477
4						5758
						5441
5						5453
						5446
6		4/5	5-4		13.0	5779
						5758
7					9.2	5441
						5453
8					20.5	5916
						5754
9					24.7	5375
						5643
10						

0-2.5 Gravel fill w/ some concrete chunks

2.5-3.5 Reddish Brown f.m sand w/ some silt, wet, loose, non cohesive

0-1/2 ft gravel

1/2-1 1/2 concrete chunk

1 1/2-2.5 S.A. 2-1/2-Ft

5-7 Debris - wood, cinders

7-1 Black + Brown m-sand w/ silt

Some wood, trace very f. sand.
tight, non cohesive

Background FIDLER - 5649



Boring No:

22

Boring Location info:

043, A0I 6, A0C 6

Project:

Proj. No.

OU3 Phase 2

date:

page: 2

time:

of: 2

by: J. Von Uderitz

water depth / time:

water depth / time:

drilling method: ZOTA SONIC
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

0-11.5 Large ~~to~~ Cinders & wood

chucks in Black (petroleum) wax

11.5.14 Black Pent - new Johns

14-15 Light Gray m-sand w/ silt
Loose, non cohesive

TD: 15-44 B65

Soil Boring Log

Boring No:
23

ring Location info:

OU3, AOI 1, AOC 4

Project:

OU3 Phase 2

Proj. No.

date: **11-9-05**

page: **1**

time:

of: **2**

by: **Ken Marion**

water depth / time:

5 feet

water depth / time:

drilling method: **Rotasonic**

GP24-300 RS

diam: **4-inch, 5 ft. long**

start/finish: **1015/1120**

surface conditions:

loose gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Recovery well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1	Fill GP				4	4605
1.5						4303
2	Sc				11.5	4305
2.5						4609
3	CL				5.6	4547
3.5						4743
4	SP				23.9	4535
4.5						4235
5	SP Sc	Full Recovery			354	4129
5.5						4364
6	Sc				716	4518
6.5						4382
7	Sc	Full Recovery			449	4407
7.5						4892
8	Sc	Full Recovery			3152	5552
8.5						6103
9	Fill Sc	8.5 Full Recovery			962	5314
9.5						6789
10	CL	9.5 Full Recovery			420	6642
						4991

Grayish brown sandy gravel, moist, loose

Dark brown clayey fine sand, moist, loose
Black silty clay, moist, medium firm,
low plasticity

Gray fine sand, moist, loose

Grayish brown fine sand, moist, loose

Dark brown fine sand, a little clay, moist, dense

Black clayey sand, gravel, wet, very
loose, silty sheen, product staining
wire and brick fragments, fill material

Same as below



Boring No:
23

ring Location info:

ou3, Aoi 1, Aoc4

Project:

Proj. No.

043 Phase 2

date: 11-9-05

page: 2

time:

of: 2

by: Ken Marion

water depth / time:
5 feet

water depth / time:

drilling method: *rotasonic*
 diam: *4-inch, 5 ft. long*
 start/finish: *1015/1120*

surface conditions:
loose gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Recovery well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	diam. 4-1/2 inch / 5 ft. long	
							start/finish: 1015/1120	elevation:
Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.								
10	CL	10.5			190	4794	Greenish gray sandy clay, very moist, organic matter, medium plasticity, medium firm strong odor, oily sheen	
11	CL	11.5			175	5680		
12	CL					6216		
						5216		
13	CL				256	4966	NO Recovery	
14						5105		
15		3 feet					Bottom of borehole at 15 feet	



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Soil Boring Log

Boring No:
24

ring Location info:

OU3, AOI 1, Aa4
Near Gate

Project:

OU3 Phase 2

Proj. No.

date: 11-9-05

page: 1

time:

of: 2

by: Ken Marion

water depth / time:

5 feet

water depth / time:

drilling method: Rotasonic

GP24-300RS

diam: 4-inch core, 5 ft. long

surface conditions:

loose gravel

start/finish: 0915-0930

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Recovery well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
-----------------------	--------------	----------------------------------	--------------	-------------	-----------	-------------

1	GP				0	4314 4459
---	----	--	--	--	---	--------------

2	GP				0	4255 4545
---	----	--	--	--	---	--------------

3	CL				0	4510 4500
---	----	--	--	--	---	--------------

4	CL				0	4521 4665
---	----	--	--	--	---	--------------

5	SP	Full Recovery			4.6	4101 3812
---	----	---------------	--	--	-----	--------------

6	SP				0.1	4649 3812 4216
---	----	--	--	--	-----	----------------------

7	SP				0	4459 4449
---	----	--	--	--	---	--------------

8	SP				0	4206 4016
---	----	--	--	--	---	--------------

9	CL	8.5			0	4336 4981
---	----	-----	--	--	---	--------------

9.5	CL	Full Recovery			0.3	4942 4650
-----	----	---------------	--	--	-----	--------------

10	CL					
----	----	--	--	--	--	--

Grayish brown sandy gravel, moist, loose

Same as above

Black sandy silty clay with a little gravel and trace organic matter, a little green mottling with depth, moist, medium firm, low plasticity

Gray fine sand, moist, dense

Gravelly gray sand, wet, loose

Black sandy clay, trace glass, wood fragments, brick fragments, pink staining, very moist, firm, low plasticity

Fill Material



Soil Boring Log

Boring No:

24

Boring Location info:

OU3, AOI 1, AO 4

Near Gate

Project:

OU3 Phase 2

Proj. No.

date: 11-9-05

page: 2

time:

of: 2

by:

Ken Marion

water depth / time:

5 feet

water depth / time:

drilling method: Rotasonic

GP24-300RS

diam: 4-inch core, 5 ft. long

start/finish: 0915 - 0930

surface conditions:

loose gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth
(show units)

soil texture

Sample
Recovery
%
construction

sample depth

sample no.

OVA (ppm)

FIDLER Scan

4197

4040

3939

4087

4539

4446

4425

4404

4343

4385

Black medium sand with a little gravel,
wet, loose, gravel sized piece of asphalt?
Fill Material

Black clay with organic matter and a
little sand, moist, medium firm, medium
plasticity

Bottom of borehole at 15 feet



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Soil Boring Log

Boring No:

25

Boring Location info:

OU3, AOI 1, AOC 4

Boring 25
Near road

Project:

OU3 Phase 2

Proj. No.

date: 11-9-05

page: 1

time:

of: 2

by: Ken Marion

water depth / time:

6 feet

water depth / time:

drilling method: Rotasonic

GP24-300RS

diam: 4" core, 5 ft long

surface conditions: loose gravel

start/finish: 0755/0830

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample Recovery (well reconstruction)	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
-----------------------	--------------	--	--------------	-------------	-----------	-------------

1	SP				0	4712 4621
2	OH				0.2	4868 4969
3	OH	2.5			0.5	5202 5957
4	OH	3.5			5	5901 5662
5	OH	Full Recovery			15	5382 5049
6	SP				1.5	5659 5175
7	CL				0	4849 4839
8	CL				0	4927 5002
9	CL				0	4914 5055
9.5	CL	Full Recovery			0	5197 5104

Grayish brown gravelly fine sand, moist, loose, trace organic matter

Black sandy clay, moist, medium firm, a little fine gravel and trace peat with an oily sheen, low to medium plasticity nail, metal fragment

Fill material

Strong odor

Yellowish brown gravelly sand, moist, loose trace very coarse gravel and cobbles, trace black staining Fill Material

water at 6 feet

Brownish red clay, moist, firm, high plasticity

Sandy gravelly clay, wet, medium plasticity, firm

Yellow clay with a little gray mottling, moist, very firm

Gray sandy silty clay, moist, low plasticity, med. firm



Boring No:

25

ring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11-9-05
time:

page: 2
of: 2

by: Ken Marion

water depth / time:
6 feet

water depth / time:

drilling method: Rotasonic
GP24-300RS
diam: 4-inch, 5 ft. long
start/finish: 0755/0830

surface conditions:
loose gravel
elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)		soil texture	Recovery well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	diam. 4-inch / 5 ft. long start/finish: 0755/0830	elevation:
								Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.	
10		CL				○	5062 4980	Gray Clay with a little silt, very moist, low to medium plasticity, medium firm	
11		CL				○	4814 4791		
12		CL				○	4717 4991	Gray Clay with a little silt and some organic matter/peat, very moist high plasticity, firm	
13		CL				○	4636 4761		
14		CL	Full Recovery			○	4811 4680	Bottom of borehole at 15 feet Grouted hole using 15 lbs. Volclay grout and 14 gallons of water	
15									



Soil Boring Log

Boring No:
26

ring Location info:

OU3, AOI 1, AOC4

Project:

OU3 PHASE 2

Proj. No.

date: 11/09/05

page: 1

time: 1312

of: 2

by: KEN MARION

water depth / time:

7 feet

water depth / time:

drilling method: ROTASONIC

GP24-300RS

surface conditions:

loose gravel

diam: 4-IN

start/finish: 1315/1345

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample Recovery well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1	SP				0	4054 3996
2	CL	1.5	X		0	4322 4583
3	CL	2.5	—		0	4896 4478
4	CL				0	4296 4313
5	CL	Full Recovery			0.6	4100 3120
6	CL				0.3	4127 4081
7	GP				0	4108 4058
8	GP	7.5	X		5.1	4132 4286
9	GP	Full Recovery	—		44	4382 4317
10	CL				10	4116 4124

Yellowish brown gravelly sand, moist, loose

Black and greenish gray mottled sandy silty clay with a little fine gravel and trace organic matter, moist, medium plasticity, medium firm

Yellowish brown sandy gravel, moist, loose

Black sandy gravel with a little clay, brick fragments, and organic matter, dense, wet, oily sheen.

Black sandy clay with a little gravel, brick fragments, wood, and wire, low plasticity, wet, very soft, oily sheen

BACKGROUND H044



Boring No. 26

Spring Location info:

Project:

Proj. No.

ou3 Phase 2

date: 11-9-05

page: 2

time: 1312

of: 2

by: Ken Marion

water depth / time:

7 feet

water depth / time:

drilling method: Rotasonic

6P24-300R5

diam: 4 inch, 5 ft. long

start/finish: 1315/1345

surface conditions:

loose gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Recovery well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	diam: 4 inch, 5 ft. long start/finish: 1315/1345	elevation: 1855 ft.
							Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.	
10	CL	Full Recovery			7.9	4191 4130	Same as above but no oily sheen, very moist	
11						3997		
12	CL				0.2	4061		
						4020		
13	CL				1.7	4164		
						4124		
14	CL				0.8	4319		
						4412		
15	CL	Full Recovery			0.4	4464	Greenish gray sandy clay with organic matter, moist, medium firm, medium plasticity	
							Bottom of Borehole at 15 feet	

Soil Boring Log

Boring No: 27

Boring Location info:

OU3, AOI 2, AOC 4

Project:

OU3 Phase 2

Proj. No.

date:

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

12. ft

water depth / time:

drilling method: Rota Sonic
GP 24-300 RS

diam: 4-inch

surface conditions:

start/finish: 846

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan
1		S/S		1.1		5548
						5578
2				1.7		5311
						5719
3				2.1		5684
						5584
						6080
4				4.0		6025
						5925
5				8.6		5917
						5923
6				10.0		5789
						6169
7				53		6376
						6162
8				37		6064
						6008
9				1.0		5734
						5590
10				3		5550

0-1.5 (Asphalt + Subbase)

1.5-2.5 Black, Dark Gray/Light Gray and some orange Brown. Sandy silty clay w/ some Rocks. Tight semi-cohesive. Dry

2.5-3.5 Light Gray + Light Brown mottled silty sand, w/ some Dark Gray sand. Loose non-cohesive. moist

3.5-4.5 Black peat w/ some wood debris

4.5-5.5 medium light Gray sand w/ clay moist, tight. semi-cohesive

5.5-8 Light Gray + Red Brown mottled silty clay. Tight plastic. Dry
8-9 Light gray M-sand w/ trace silt. Loose, non-cohesive. moist

9-12 Orange Brown M-sand w/ trace silt. loose, non-cohesive

* 6-7 Both Blind Duplicate
* 9-10 Intervals

Back Ground FIDLER: 5370



Boring No:

27

Project:

Proj. No.

043, A0I2, A0C4

OU3 Phase 2

date:

page: 2

time:

of: 2

by: J. Von Uderitz

water depth / time:

12-Ft

water depth / time:

drilling method: LOTASON: L
GP 24-300 RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample with Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0		4/5			48	5302 5468
1		↓			104	5482
2					82	5447 5369
3					7.4	5270 5506
4						5229
5						
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99						
100						

TD = 15 BGS

Soil Boring Log

Boring No: 28

Boring Location info:

043, AOI-2, AOC-4

Project:

043 Phase 2

Proj. No.

date: 11/10/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

10.5

water depth / time:

drilling method: Rotasonic
GP24-300RS

diam: 4-inch

start/finish: 7.5

surface conditions:

Sand + Gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample no.	OVA (ppm)	FIDLER Scan	
1		S/S			6.3	5274	Light Brown m-sand w/ some silt. Some large cobbles. Loose, moist to damp. (0-2)
						5248	
2					5.1	5076	
						5197	
3					5.6	4888	(2-2.5) Black F.m sand w/ silt. Some large cobbles
						5029	
4					12.2	5399	(2.5-3.5) Light Brown silt w/ trace very fine sand. tight non-cohesive. Dry
						5238	(3.5-4.5) Red Brown F.m sand w/ silt. Tight Some Black Sand. Damp
5					19.0	5427	(4.5-6.5) Light Brown silt w/ trace very fine sand. with some light gray + orange brown mottled silt. Loose, non-cohesive
						5465	
6		S/S			7.7	5431	
						5603	(6.5-9) Light Gray + orange Brown mottled silt, clay. Tight plastic. Trace Gray Sand.
7					21.2	5527	
						5640	
8					7.5	5296	(9-9.5) Light Gray m-sand w/ trace silt + some oval cobbles. Loose, non-cohesive. Damp
						5501	
9					2.2	5372	(9.5-10) Red Brown m-sand w/ some silt. Loose, non-cohesive. moist
						5392	
9					5.8		
						4843	
10					5.5	4751	

Back Ground Fidler - 5049



Boring No:

28

Project:

Proj. No.

OU3 Phase 2

date:

page: 2

time:

of: 2

by: J. Von Uderitz

water depth / time:

water depth / time:

drilling method: ROTASONIC
GP 24-300RS

diam: 4-inch

surface conditions:

start/finish:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

[illegible]

TD = 15 BGS



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Soil Boring Log

Boring No:

29

Boring Location info:

Project:

Proj. No.

OU3 Phase 2

date: 11/10/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

9.54

water depth / time:

drilling method: Rotasonic

GP 24-300RS

surface conditions:

diam: 4-inch

start/finish: 800

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1		S/S			0.7	5461	(0-1) M-C Sand w/ sandstone cobbles Gray-Brown, Damp. LOOSE
2					1.6	5424	(1-2) Black + Dark Brown M-C Sand w/ sandstone cobbles. LOOSE
3					2.2	5504	(2-3.5) Black M-Sand w/ some clay. Semi-tight cohesive. Very moist @ 3.5
4					3.3	5220	(3.5-4) Black silty clay w/ trace sand. Tight, cohesive. wet
5					9.3	5389	(4-4.5) Orange Brown medium sand w/ some silt. LOOSE, non-cohesive. moist
6		S/S			2.8	5370	(4.5-8) Light + Dark Gray mottled silty clay w/ some sand. Tight, plastic. Dry
7					7.0	5230	(8-8.5) Light Gray M-Sand w/ trace silt. LOOSE, moist
8			2.8		5.1	5741	(8.5-12) Orange Brown M-Sand w/ trace light gray f-sand. LOOSE, non-cohesive wet @ 9'.
9					2.7	5912	Trace dark Gray clay @ 11-Ft
10					9.0	6007	
						5266	
						5424	
						5177	
						5121	

Background Fidler - 5468



Boring No:

29

Project:

Proj. No.

043, A0I2, A0C4

OU3 Phase 2

date:

page: 2

time:

of: 2

by: J. Van Uderitz

water depth / time:

water depth / time:

drilling method: ZOTASONIC
6P24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0						5764
1		4/5	10.5		2.4	5055 5343
2		—	11.5		3.2	5402 5000
3					4.4	5343 5090
4					13.1	5055 5215
5		0			18.0	5735 5405
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

(12.14)

Light + Dark Gray m-sand w/ silt. wet, loose
non-cohesive

TD = 15 BGS



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Soil Boring Log

Boring No:
30

ring Location info:

043, AOC 4, AOI 2

North Central boring

Project: 043, ~~AOI 2~~
Phase 2

Proj. No.

date: 11-9-05
time:

page: 1
of: 2

by: Ken Marion

water depth / time:
11 feet

water depth / time:

drilling method: rotasonic
GP24-300RS
diam: 4" Core, 5 ft. long
start/finish: 1505/1545

surface conditions:
loose gravel
elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Recovery well construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
1	Fill				1.5	5410	Yellow brown gravelly sand, moist, loose
	SP					5456	Fill Material
	SC				0	5452	Brown fine sand with a little clay, moist, loose
2	SP					5420	
	SP				0.4	5703	Black fine sand, moist, dense
3	SP					5461	olive fine sand, moist, medium dense a little organic matter
	SC	3.5			0	5503	Brown fine sand with a little clay
4	SC					5745	olive brown and gray mottled fine sand with clay, dense, moist
	SC	Full Recovery			0	5997	
						5691	
5	CL				0	5615	olive brown and black mottled fine sand clay with clay ^{sand} , dense, moist
6	CL				0	5455	
						5611	reddish brown and gray mottled clay, a little sand, moist, dense
7						5477	
						5609	
8	SP	7.5			0	5992	
	SP	8.5			0	5645	red, brown, gray, and olive mottled fine sand, moist, medium dense
9						5397	
	SP	Full Recovery			0	5524	
10						5550	

Soil Boring Log

Boring No:

30

ring Location info:

0u3, AOC4, AOI2

North Central Boring

Project:

043 ~~043~~ Phase 2

Proj. No.

date: 11-9-05

page: 2

time:

of: 2

by:

Ken Marion

water depth / time:

11 feet

water depth / time:

drilling method: Rotasonic

GP24-300RS

diam: 4" core, 5 ft long

start/finish: 1505/1545

surface conditions:

loose gravel

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Recovery wet construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan	
10	CL				0	5630	olive brown sandy clay, moist, firm, medium plasticity
11					0	5460	
12	SP				0	5541	Wet brown fine sand, dense
						5442	
	SP				0	5275	
						5342	
13	SP				0	5241	wet reddish brown medium sand, dense
						5275	
14	SP				0	5119	
						5181	
15							Bottom of borehole at 15 feet



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Soil Boring Log

Boring No:

31

Boring Location info:

OU3, AOI 4, AOC 6

Project:

OU3 Phase 2

Proj. No.

date: 11/12/05

page: 1

time:

of: 2

by: J. Von Uderitz

water depth / time:

5 - ft

water depth / time:

drilling method: Rotasonic
GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

Asphalt down

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
1		5/5			1.1	5420
1						5411
2					1.5	6033
2						6549
3			2.5		9	60537
3					1.	6018
3			3.5			9183
4					3.0	7109
4					8.3	6181
5						6155
5		5/5			5.0	6421
6						3166
7					5.8	5050
7						6052
8					7.9	5044
8						5782
9					12.6	5832
9						5902
10						5961
10						5961

0-1 Asphalt & subbase
+ Brown
1-3 Black Sand + silt w/ some silt
Loose, non-cohesive, moist
3-4 Light Brown + light Gray M-sand
w/ silt. Loose, non-cohesive, moist
4-5 Black Sand and small Gravel.
moist. wet @ 5
5-7.5 Black & Brown Silty clay
w/ some sand. Tight, plastic
7.5-8 Brown M-sand w/ some silt.
Loose, non-cohesive
8-9 Light Gray + Light Brown Mottled
very F-sand w/ some silt. Tight
non-cohesive
9-10.5 Light Gray M-L sand w/ some silt
Loose, non-cohesive

FIDLER Background = 5721



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Soil Boring Log

Boring No:

31

Boring Location info:

OU3, AOI4, AOC6

Project

OU3 Phase 2

Proj. No.

date: 11/12/05

page: 2

time:

of: 2

by: J. Van Lidenitz

water depth / time:

water depth / time:

drilling method: Rota Sonik

GP 24-300RS

diam: 4-inch

start/finish:

surface conditions:

elevation:

Description: textures, color, moisture, odor, firmness, fractures, strata, cavities, fossils, contamination, etc.

depth (show units)	soil texture	Sample well Recovery construction	sample depth	sample. no.	OVA (ppm)	FIDLER Scan
0		5	10		0.6	5090
1		5	11			5091
2					21.2	5615
						5088
3					53.9	5210
						5180
4					56.0	5368
						5523
5					15.7	5688
						5535

10.5 - 11.5 M-L Brown sand w/ trace silt. Loose, non-cohesive

11.5 - 13.5 Coarse to fine Gravel Light Gray sand w/ trace silt. Loose non-cohesive

13.5 - 14 Light Gray Silty clay w/ trace sand. Tight, plastic

14 - 15 very F-Dark Gray sand w/ some silt. Loose, non-cohesive

TD = 15 BGS