



MWH Americas, Inc.
335 Phoenixville Pike
Malvern, Pennsylvania 19355

Boring ID: SB5

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DC54-18

Project Name: Valero
Location: Delaware City, DE
Project Number:
Date Started: 5/30/2007
Date Finished: 5/30/2007
Drilling Method: Geoprobe
Sampling Method:
State Permit Number: NA

Boring Location: Delaware City R
Drilling Company: BL Myers (J. L
Ground Elevation (ft/msl):
Total Depth (ft): 75.0'
Boring Diameter (in): "
Water Level During Drilling (ft/bgs):
Weather Conditions:
Logged By: A. Clark

Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
0			0			ML		0' - 2' Brown (10YR 4/3) SILT, little clay, trace dark reddish brown mottling and organic material	
1									
2		46.8				ML		2' - 25.85' Dark gray (10YR 4/1) with black mottling SILT, some clay, lightly micaceous, trace roots and organic material, soft to medium stiff, moist	
3									
4									
5			0					5' very dark gray	
6									
7		48							
8									
9									
10			0					10' silty clay	
11									
12		20.4							
13									
14									
15									



Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
15			0					15' wet	
16									
17		25.2							
18									
19									
20			0					20' clayey silt	
21									
22		31.2							
23									
24									
25			0					25' seams of dark gray fine-grained sand	
26						SP-SC		25.7' Light gray, greenish gray, dark gray, olive brown and layers of black, peat seam at 26.2' bgs and 26.5' bgs	
27								25.85' - 26.8' Interbedded dark grayish brown fine-grained SAND and very dark gray CLAY	
28		21.6						26.8' - 30' No Lithology	
29									
30			0			CL		30' - 30.4' Interbedded very dark gray silty CLAY, micaceous and dark gray fine-medium-grained SAND	
31						SW		30.4' - 30.8' Dark gray fine-medium-grained SAND grading to very dark gray fine-grained sand	
32						CL		30.8' - 31.1' Very dark gray to black silty CLAY, trace organic material	
33		13.2						31.1' - 35' No Lithology	



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33									
34									
35			0			SP-SM ML		35' - 35.1' Dark greenish gray (GLEY 2 4/1) fine-grained SAND, some silt	
36								35.1' - 36.5' Very dark gray clayey SILT to silty CLAY, slightly micaceous	
37		18						36.5' - 40' No Lithology	
38									
39									
40			0			PT		40' - 42.4' Dark reddish brown to very dark brown PEAT, some silt	
41									Sampled SBC 468-42 Test C-14 analysis 468-42 6/27/07
42		28.8						42.4' - 45' No Lithology	
43									
44									
45			0			PT		45' - 45.8' Very dark brown silty PEAT	
46						CL CL		45.8' - 46' Dark grayish brown silty CLAY	
47		30						46' - 52.2' Greenish gray (GLEY 1 5/1) CLAY, little silt, dark yellowish brown (10YR 4/6) silt laminations, micaceous, soft to medium stiff	
48									
49									
50			0					50' greenish gray to dark grayish brown, grades to very dark gray, mica increasing with depth	
51									

Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
52		26.4							
53								52.2' - 55' No Lithology	
54									
55			0			CL		55' - 56.1' Very dark gray CLAY, some silt, interbedded with dark yellowish brown silt band, medium stiff, micaceous	
56						CL		56.1' - 75' Very dark gray silty CLAY, micaceous	
57		26.4						<i>kmj</i>	
58									
59									
60			0					60' (very fine-grained sandy silt band and laminations, very micaceous, gray) stiff, no glauconite, light gray cemented fine-grained sand lense at 60.5' bgs	
61									
62									
63									
64									
65			0						
66									
67									
68									
69									



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Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
70			0					70' silty clay to clayey silt	
71									
72								75' End of Boring	
73									
74									
75									
76									
77									
78									
79									
80									
81									
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84									
85									
86									
87									