

Project No: SERA01-SER00059

Log of Borehole: ERT 1-1

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6816817

Location: Brooklyn, NY

Longitude (W): -73.9870128

Logged By: C. Sklaney

Time and Date Collected: 10:02 01/28/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				PID malfunctioned.
0		Soft Sediment	ERT1-1-A			
1		Black, organic, accumulated soft sediment, sulfur-like odor.	ERT1-1-B			
2			ERT1-1-C			
3			ERT1-1-D			
4			ERT1-1-E			
5			ERT1-1-F			
6		Sand (SP)	ERT1-1-G			
7		Dark gray, fine to medium grained, firm.	ERT1-1-H			
8		Clay (CL)				
9		Dark gray, occasional brown woody pieces.				
10						
11						
12		Borehole advanced to 12 feet.				
13						
14						
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16						
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19						
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Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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2890 Woodbridge Avenue
Building 209 Annex
Edison, NJ 08837

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Project No: SERA01-SER00059

Log of Borehole: ERT 1-2

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6816444

Location: Brooklyn, NY

Longitude (W): -73.9868833

Logged By: C. Sklaney

Time and Date Collected: 09:20 01/28/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				PID malfunctioned.
0		Soft Sediment	ERT1-2-A			
1		Black, organic, accumulated soft sediment, fine and coarse gravel, rock debris, occasional peat-like material, sulfur-like odor, petroleum hydrocarbon sheen in upper 3 feet.	ERT1-2-B			
2			ERT1-2-C			
3			ERT1-2-D			
4			ERT1-2-E			
5			ERT1-2-F			
6			ERT1-2-G			
7			ERT1-2-H			
8			ERT1-2-I			
9		Sand (SP)				
10		Dark gray, fine to medium grained, firm, black staining in horizontal bands.				
11						
12		Borehole advanced to 12 feet.				
13						
14						
15						
16						
17						
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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Sheet: 1 of 1

Project No: SERA01-SER00059

Log of Borehole: ERT 1-3

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6815986

Location: Brooklyn, NY

Longitude (W): -73.9867656

Logged By: C. Sklaney

Time and Date Collected: 09:30 01/29/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				PID malfunctioned.
0		Soft Sediment	ERT1-3-A			
1		Black, organic, accumulated soft sediment, runny, wet to 1.7 feet.	ERT1-3-B			
2			ERT1-3-C			
3		Spongy, some gravel, soft between 1.7 and 3.3 feet.	ERT1-3-D			
4			ERT1-3-E			
5		Leaves, roots, and more competent sandy texture between 3.3 and 7.7 feet.	ERT1-3-F			
6			ERT1-3-G			
7			ERT1-3-H			
8			ERT1-3-I			
9		Sand (SP)	ERT1-3-J			
10		Dark gray, fine to medium grained, dense.				
11		Becomes wetter and spongier between 9.5 and 10.5 feet.	ERT1-3-L			
12		Clayey Sand (SC)				
13		Dark gray, fine grained.				
14		Sand (SP)	ERT1-3-N			
15		Dark gray, medium grained.				
16						
17		Borehole advanced to 15 feet.				
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 8 inch

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Project No: SERA01-SER00059

Log of Borehole: ERT 2-1

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6813058

Location: Brooklyn, NY

Longitude (W): -73.9872789

Logged By: C. Sklaney

Time and Date Collected: 11:38 01/28/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				
0		Soft Sediment	ERT2-1A			
1		Black, organic, accumulated soft sediment, spongy, petroleum hydrocarbon sheen on surface, strong petroleum hydrocarbon odor.	ERT2-1B			
2			ERT2-1C			
3			ERT2-1D			
4			ERT2-1E			
5		Gravelly between 5.5 and 7 feet.	ERT2-1F			
6			ERT2-1G			
7			ERT2-1H			PID = < 2 ppmv to 6.5 feet.
8		Sand (SP)	ERT2-1I			
9		Black, fine to medium grained, heavily stained, petroleum hydrocarbon sheen.	ERT2-1J			PID = 7 to 8 ppmv between 6.5 and 8.5 feet.
10						
11						
12		Borehole advanced to 12 feet.				
13						
14						
15						
16						
17						
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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Sheet: 1 of 1

Project No: SERA01-SER00059

Log of Borehole: ERT 2-2

Project: Gowanus Canal Superfund Site

Client: EPA/ERT



Latitude (N): 40.6812867

Location: Brooklyn, NY

Longitude (W): -73.9871489

Logged By: C. Sklaney

Time and Date Collected: 12:40 01/28/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0 ft 0 m		Sediment Surface Soft Sediment Black, organic, accumulated soft sediment, spongy, petroleum hydrocarbon sheen.	ERT2-2-A			PID malfunctioned.
1			ERT2-2-B			
2			ERT2-2-C			
3			ERT2-2-D			
4			ERT2-2-E			
5			ERT2-2-F			
6			ERT2-2-G			
7			ERT2-2-H			
8			ERT2-2-I			
9						
10 3		Sand (SP) Dark gray, medium grained, petroleum hydrocarbon stain and odor.				
11						
12		Borehole advanced to 12 feet.				
13 4						
14						
15						
16 5						
17						
18						
19						
20 6						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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Sheet: 1 of 1

Project No: SERA01-SER00059

Log of Borehole: ERT 2-3

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6812314

Location: Brooklyn, NY

Longitude (W): -73.9870197

Logged By: C. Sklaney

Time and Date Collected: 10:15 01/29/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				
0		Soft Sediment	ERT2-3-A			
1		Black, organic, accumulated soft sediment, spongy.	ERT2-3-B			
2			ERT2-3-C			
3			ERT2-3-D			
4			ERT2-3-E			
5			ERT2-3-F			
6			ERT2-3-G			
7			ERT2-3-H			
8		30% coal fragments between 8 and 9.4 feet.				PID = <4 ppmv above 8 feet.
9			ERT2-3-J			PID = 5.8 ppmv.
10		Sand (SP)				PID = 28 ppmv.
11		Dark gray, medium grained, strong petroleum hydrocarbon odor.	ERT2-3-L			
12						
13						
14						
15		Borehole advanced to 16 feet.				
16						
17						
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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Sheet: 1 of 1

Project No: SERA01-SER00059

Log of Borehole: ERT 3-1

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6803922

Location: Brooklyn, NY

Longitude (W): -73.9878961

Logged By: C. Sklaney

Time and Date Collected: 14:15 01/27/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				PID malfunctioned.
0		Soft Sediment	ERT3-1-A			
1		Black, organic, silty, some flat, angular rock debris, accumulated soft sediment, spongy, petroleum hydrocarbon sheen in upper one foot.	ERT3-1-B			
2			ERT3-1-C			
3			ERT3-1-D			
4		Less silt and more rock clasts between 1 and 3 feet.	ERT3-1-E			
5		Proportion of rock debris increases between 3 and 4.3 feet.	ERT3-1-F			
6			ERT3-1-G			
7		Almost entirely gravel between 4.3 and 4.8 feet.	ERT3-1-H			
8						
9		Silt (ML)				
10		Black, firm.				
11		Sandy with metal fragments between 5.8 and 6.5 feet.				
12		Borehole advanced to refusal at 8.8 feet.				
13						
14						
15						
16						
17						
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey

Hole Size: 6 inches

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Sheet: 1 of 1

Project No: SERA01-SER00059

Log of Borehole: ERT 3-2

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6803461

Location: Brooklyn, NY

Longitude (W): -73.9877786

Logged By: C. Sklaney

Time and Date Collected: 13:45 01/28/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				PID = <3ppmv above 9 feet. PID = 15 ppmv at 7.8 feet. PID = <10 ppmv between 8 and 10 feet.
0		Soft Sediment	ERT3-2-A			
1		Black, organic, soft accumulated sediment.	ERT3-2-B			
2			ERT3-2-C			
3			ERT3-2-D			
4			ERT3-2-E			
5			ERT3-2-F			
6			ERT3-2-G			
7			ERT3-2-H			
8		Sand (SP)	ERT3-2-I			
9		Dense.	ERT3-2-J			
10			ERT3-2-K			
11		Clayey Sand (SC)				
12		Borehole advanced to 12 feet.				
13						
14						
15						
16						
17						
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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Sheet: 1 of 1

Project No: SERA01-SER00059

Log of Borehole: ERT 3-3

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6803000

Location: Brooklyn, NY

Longitude (W): -73.9876608

Logged By: C. Sklaney

Time and Date Collected: 11:00 01/29/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				
0		Soft Sediment	ERT3-3-A			
1		Black, organic, soft accumulated sediment.	ERT3-3-B			
2			ERT3-3-C			
3			ERT3-3-D			
4			ERT3-3-E			PID = <3 ppmv above 3 feet. PID = 3 ppmv at 3.5 feet.
5			ERT3-3-F			
6			ERT3-3-G			PID = 6 ppmv at 5.5 feet.
7			ERT3-3-H			
8			ERT3-3-I			PID = 9 ppmv at 7 feet.
9			ERT3-3-J			
10		Sand (SP)				PID = 22 ppmv at 9 feet.
11		Dark gray, fine to medium grained, trace gravel.	ERT3-3-L			
12		Some gravel between 10.6 and 11.5 feet.				PID = 25 ppmv at 11 feet.
13		Little gravel between 11.5 and 12.8 feet.	ERT3-3-N			PID = 19 ppmv at 12 feet.
14		Gravel (GW)				
15		Fine and coarse gravel, strong petroleum hydrocarbon odor.				
16		Borehole advanced to 16 feet.				
17						
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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Sheet: 1 of 1

Project No: SERA01-SER00059

Log of Borehole: ERT 4-3

Project: Gowanus Canal Superfund Site

Client: EPA/ERT

Latitude (N): 40.6792792

Location: Brooklyn, NY

Longitude (W): -73.9883389

Logged By: C. Sklaney

Time and Date Collected: 11:40 01/29/10

SUBSURFACE PROFILE			SAMPLE			Notes
Depth	Symbol	Description	Number	Type	Recovery	
0		Sediment Surface				
0		Soft Sediment	ERT4-3-A			
1		Black, organic, silty, soft accumulated sediment, petroleum hydrocarbon sheen and odor.	ERT4-3-B			
2			ERT4-3-C			
3			ERT4-4-D			
4			ERT4-4-E			PID = <3 ppmv above 4 feet.
5			ERT4-4-F			PID = 5.8 ppmv at 5 feet.
6		Rock debris between 5.5 and 7.3 feet.	ERT4-4-G			
7			ERT4-4-H			PID = 8 ppmv at 6.5 feet.
8		Sand (SP)	ERT4-4-I			PID = 25 ppmv at 7.5 feet.
9		Dark gray, fine to medium grained, trace well rounded gravel, hydrocarbon sheen and strong petroleum hydrocarbon odor.	ERT4-4-J			PID = 36 ppmv at 8.5 feet.
10			ERT4-4-K			PID = 10.6 ppmv at 9.5 feet.
11		Borehole advanced to 12 feet.				
12						
13						
14						
15						
16						
17						
18						
19						
20						

Drill Method: Vibracore

Drill Company: Aqua Survey, Inc.

Hole Size: 6 inches

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Sheet: 1 of 1