

# **APPENDIX A**

## **SOIL BORING LOGS**

BORING NO. : GS-01

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783684.16288 EASTING: 1010237.98664

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 898.8668

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 1/28/08

DATE FINISHED: 1/28/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

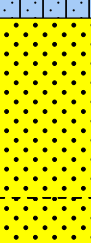
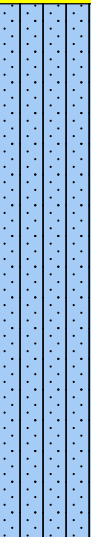
-5

-10

-15

-20

-25



0-4

80

ND

FILL. Dark gray, slag, coal, and silty medium to coarse sand, moist.

ML. Brown, CLAYEY SILT, some coarse gravel, moist.

4-8

60

ND

SM/GM. Brown, SILTY SAND with gravel, trace clay, moist.

8-12

75

ND

12-16

50

ND

wet at 15'.

16-20

50

ND

GM. Brown, SILTY GRAVEL, wet.

SM. Brown, SILTY medium to coarse SAND, wet.

20-24

50

ND

SP. Brown, fine to medium SAND, trace fine gravel, trace silt, wet.

SP. Brown, fine to medium SAND, trace coarse sand, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-01-30-31' and GS-01-35-36' and submitted for analysis of TCL VOCs

Collected water samples GS-01-15-19', GS-01-26-30', GS-01-32-36' and submitted for analysis of TCL VOCs.

BORING NO. : GS-01

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
-30		28-32	100	ND	ML. Brown SILT to CLAYEY SILT, wet, dilatant.	
-35		32-36	100	ND		
					End of boring at 36'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-01-30-31' and GS-01-35-36' and submitted for analysis of TCL VOCs

Collected water samples GS-01-15-19', GS-01-26-30', GS-01-32-36' and submitted for analysis of TCL VOCs.

BORING NO. : GS-02

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783810.39851 EASTING: 1010300.66919

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 899.8317

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 1/29/08

DATE FINISHED: 1/29/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

ML/GM. Brown, CLAYEY SILT and GRAVEL, some coarse sand, moist.

0-4

60

ND

-5

4-8

30

ND

-10

8-12

60

ND

SM/GM. Brown, SILTY medium to coarse SAND and GRAVEL, trace fine sand, moist to dry.

-15

12-16

90

ND

moist from 16 to 18'.

-20

16-20

50

ND

SM. Brown, SILTY medium to coarse SAND, some gravel and clay, wet.

-25

20-24

90

ND

SP. Brown, fine to medium SAND, trace silt, coarse sand, and fine gravel, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-02-27.5-28' and GS-02-31-32' and submitted for analysis of TCL VOCs.

Collected water samples GS-02-28-32', GS-02-23.5-27.5', GS-02-18-22' and submitted for analysis of TCL VOCs.

BORING NO. : GS-02

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
					ML. Brown SILT to CLAYEY SILT, wet, dilatant.	
-30		28-32	100	ND		
					End of boring at 32'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-02-27.5-28' and GS-02-31-32' and submitted for analysis of TCL VOCs.

Collected water samples GS-02-28-32', GS-02-23.5-27.5', GS-02-18-22' and submitted for analysis of TCL VOCs.

BORING NO. : GS-03

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784018.90139 EASTING: 1010382.07158

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 899.6144

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED:

1/29/08

DIA.

2"

DATE FINISHED:

1/29/08

LENGTH

4'

DRILLER:

E. Laurienzo

GEOLOGIST:

R. Murphy

REVIEWED BY:

Tim Bunnin

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0



0-4

60

ND

ML/GM. Brown CLAYEY SILT and GRAVEL, some coarse sand, moist.

-5



4-8

60

ND

ML. Brown CLAYEY SILT, some coarse gravel, trace cobbles, moist.

-10

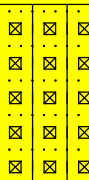


8-12

75

ND

-15



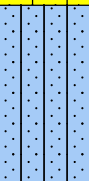
12-16

50

ND

GM. Brown, SILTY fine to coarse GRAVEL, some coarse sand, trace cobbles, dry to slightly moist.

-20



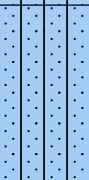
16-20

50

ND

SM. Brown, SILTY medium to coarse SAND, some fine rounded gravel, trace fine sand and clay, moist. Becomes very moist 18-20'.

-25



20-24

75

ND

SM. Brown, SILTY fine to medium SAND, some coarse sand, wet.



ML. Brown SILT, wet, dilatant, with occasional clayey zones.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-03-24-25' and GS-03-29-30' and submitted for analysis of TCL VOCs.

Collected water samples GS-03-20-24', GS-03-26-30' and submitted for analysis of TCL VOCs.

BORING NO. : GS-03

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
-30		28-32	100	ND		
-35					End of boring at 32'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-03-24-25' and GS-03-29-30' and submitted for analysis of TCL VOCs.

Collected water samples GS-03-20-24', GS-03-26-30' and submitted for analysis of TCL VOCs.

BORING NO. : GS-04

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784190.41476 EASTING: 1010453.98459

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 899.6142

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 1/30/08

DATE FINISHED: 1/30/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					ML. Brown CLAYEY SILT, moist.
		0-4	60	ND	ML/GM. Brown CLAYEY SILT and GRAVEL, some coarse sand, moist.
-5		4-8	60	ND	
-10		8-12	75	ND	GM. Brown SILTY GRAVEL, some fine to coarse sand, moist.
-15		12-16	50	ND	SW. Brown, fine to coarse SAND, moist.
		16-20	50	ND	GM. Brown, SILTY coarse SAND to coarse GRAVEL, moist.
-20					SM. Brown, SILTY fine to coarse SAND, moist, becoming wet at 19.5'.
		20-24	75	ND	SP. Brown, fine SAND, wet.
					SM. Brown, SILTY fine to coarse SAND, trace coarse gravel, wet.
-25					ML. Brown SILT, wet, dilatant.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-04-23-24' and GS-04-27-28' (plus duplicate FD-SO-013008) and submitted for analysis of TCL VOC

Collected water samples GS-04-19-23' (plus duplicate FD-GW013008), GS-04-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-04



PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
-30					End of boring at 28'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-04-23-24' and GS-04-27-28' (plus duplicate FD-SO-013008) and submitted for analysis of TCL VOC

Collected water samples GS-04-19-23' (plus duplicate FD-GW013008), GS-04-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-05

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784486.34793 EASTING: 1010561.20338

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 897.9518

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED:

1/30/08

DATE FINISHED:

1/30/08

DRILLER:

E. Laurienzo

GEOLOGIST:

R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

*Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

-5

-10

-15

-20

-25



0-4

80

ND

FILL. Gray silty gravel and fine to coarse sand, dry.

ML/GM. Brown SILT and GRAVEL, dry.

4-8

60

ND

8-12

100

ND

SM. Brown SILTY medium to coarse SAND, trace gravel, moist.

ML. Brown SILT, some very fine sand, wet in zones.

12-16

90

ND

SM. Brown, fine to medium SAND and SILT, trace gravel, dry.

16-20

90

ND

GM. Brown, SILTY fine GRAVEL, some fine to coarse sand and coarse gravel, dry.

20-24

50

ND

SM. Brown, SILTY medium to coarse SAND some fine gravel and fine sand, wet.

SW. Brown, medium to coarse SAND and GRAVEL, cobble in shoe, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

No soil samples were submitted for analysis because the deeper silt layer was not encountered.

Collected water samples GS-05-21-25' and GS-05-46-50' and submitted for analysis of TCL VOCs.

BORING NO. : GS-05

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	5	ND		
-30		28-32	50	ND	GW. Brown fine to coarse GRAVEL, some coarse sand, wet.	
					SM. Brown SILTY fine to medium SAND, some fine gravel, wet.	
-35		32-36	50	ND	SP. Brown medium SAND, wet.	
					GW. Brown fine to coarse rounded GRAVEL, some coarse sand, wet.	
-40		36-40	50	ND		
		40-44	20	ND		
-45		44-48	30	ND		
		48-50	0	ND		
-50					End of boring at 50'.	
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

No soil samples were submitted for analysis because the deeper silt layer was not encountered.

Collected water samples GS-05-21-25' and GS-05-46-50' and submitted for analysis of TCL VOCs.

BORING NO. : GS-06

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784667.64329 EASTING: 1010645.65455

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 898.0541

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 1/31/08

DATE FINISHED: 1/31/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

-5

-10

-15

-20

-25

ML. Brown SILT, trace coarse gravel, medium to coarse sand, dry.

ML/GM. Brown SILT and GRAVEL, trace to some coarse sand, moist to dry.

SM/GM. Brown SILTY fine to coarse SAND and GRAVEL, trace clay, slightly moist.

SW. Brown fine to medium sand, trace gravel, moist.

GM. Brown, rounded SILTY GRAVEL, some coarse sand, moist.

SW. Brown fine to medium SAND, wet.

SP. Brown fine SAND, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-06-28-29' and GS-06-31-32' (plus MS/MSD) and submitted for analysis of TCL VOCs.

Collected water samples GS-06-20-24', GS-06-24-28' (plus MS/MSD) and GS-06-29-33' and submitted for analysis of TCL VOCs

BORING NO. : GS-06

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND	SW. Brown, medium to coarse SAND, wet.	
-30		28-32	100	ND	ML. Brown SILT, trace to some clay, wet.	
-35					End of boring at 32'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-06-28-29' and GS-06-31-32' (plus MS/MSD) and submitted for analysis of TCL VOCs.

Collected water samples GS-06-20-24', GS-06-24-28' (plus MS/MSD) and GS-06-29-33' and submitted for analysis of TCL VOCs

BORING NO. : GS-07

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784990.43402 EASTING: 1010771.32641

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 897.2527

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 1/31/08

DATE FINISHED: 1/31/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					FILL. Gray brown CLAYEY SILT, some fine to coarse gravel, dry.
		0-4	100	ND	
-5		4-8	90	ND	ML. Brown SILT, some fine to coarse gravel, moist.
		8-12	60	ND	GM. Brown very SILTY fine to coarse GRAVEL, some medium to coarse sand, moist.
-10		12-16	50	ND	
-15		16-20	54	ND	SW. Brown fine to medium SAND and GRAVEL, slightly moist.
-20		20-24	40	ND	GW. Brown, coarse SAND to coarse GRAVEL, some medium sand and silt, wet.
-25					

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-07-29-30' and submitted for analysis of TCL VOCs.

Collected water samples GS-07-20-24' and GS-07-25-29' and submitted for analysis of TCL VOCs.

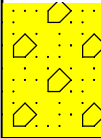
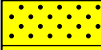
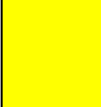

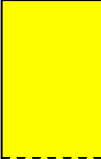
BORING NO. : GS-07

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	50	ND		
					SP. Brown, coarse SAND to fine rounded GRAVEL, trace silt, wet.	
-30		28-32	100	ND	ML. Brown SILT, some very fine sand, few coarse sand grains, wet.	
					SM. Brown SILTY fine SAND, wet.	
		32-36	100	ND	ML. Brown SILT, dilatant, wet.	
-35					ML. Brown CLAYEY SILT, some coarse sand to fine gravel, dry, very dense.	
					End of boring at 36'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-07-29-30' and submitted for analysis of TCL VOCs.

Collected water samples GS-07-20-24' and GS-07-25-29' and submitted for analysis of TCL VOCs.

BORING NO. : GS-08

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785317.37797 EASTING: 1010148.05904

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 892.7148

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED:

2/6/08

DIA.

2"

DATE FINISHED:

3/6/08

LENGTH

4'

DRILLER:

E. Laurienzo

GEOLOGIST:

R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

*Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					ML. Brown CLAYEY SILT, trace gravel, moist.	
		0-4	80	ND	ML. Brown SILT, some fine sand, trace coarse sand, very moist.	
-5		4-8	50	ND	GM. Brown SILT and fine to coarse GRAVEL, moist.	
		8-12	60	ND	GM. Brown to gray brown SILTY GRAVEL, trace to some fine to coarse sand, dry.	
-10		12-16	60	ND		
		16-20	90	ND	GM. Gray brown SILTY fine SAND and fine to coarse GRAVEL, dry to moist.	
-15		20-24	90	ND	some coarse sand 20-24'	
					SP. Brown fine SAND, trace fine gravel.	
-20					GM. Gray brown SILTY fine SAND and fine to coarse GRAVEL, trace cobble, some coarse sand, dry.	
-25						

COMMENTS: Boring first advanced with a truck-mounted Simco Earthprobe 200 direct-push rig to 28'. Difficulty recovering samples.

Returned 3/6/08 with Mobile B-57 truck mounted drill rig, collected soil sample GS-08-30-31' and submitted for analysis

of TCL VOCs. Collected water sample GS-08-28-30' and submitted for analysis of TCL VOCs.

BORING NO. : GS-08



PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	90	ND		
-30		28-30	25	ND	GW. Brown fine to coarse rounded GRAVEL, some coarse sand, trace silt.	
		30-32	100	ND	ML. Brown SILT, dilatant, wet.	
-35					End of boring at 32'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring first advanced with a truck-mounted Simco Earthprobe 200 direct-push rig to 28'. Difficulty recovering samples.  
 Returned 3/6/08 with Mobile B-57 truck mounted drill rig, collected soil sample GS-08-30-31' and submitted for analysis  
 of TCL VOCs. Collected water sample GS-08-28-30' and submitted for analysis of TCL VOCs.

BORING NO. : GS-09

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783952.23746 EASTING: 1010290.05002

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 899.8064

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/1/08

DATE FINISHED: 2/1/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

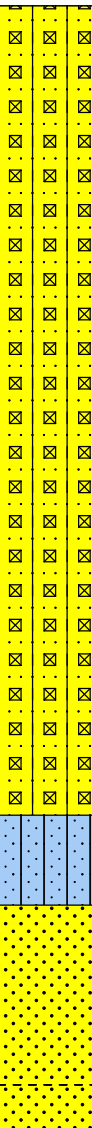
-5

-10

-15

-20

-25



0-4

40

ND

4-8

60

ND

8-12

60

ND

12-16

100

ND

16-20

60

ND

20-24

60

ND

GM. Brown SILTY GRAVEL, some medium to coarse sand, moist to dry.

SM. Brown SILTY fine to medium SAND, trace fine gravel and coarse sand, dry.

SW. Brown medium to coarse SAND, trace gravel, wet.

SW. Brown fine to coarse SAND, trace fine gravel, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig. Refusal on first attempt at 14', offset 20' north. Collected soil samples GS-09-32-33' and GS-09-35-36' and submitted for analysis of TCL VOCs.  
Collected water samples GS-09-20-24', GS-09-28-32' and GS-09-33-37' and submitted for analysis of TCL VOCs.

BORING NO. : GS-09

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	80	ND		
					SP. Brown fine SAND, wet.	
-30		28-32	100	ND	SM. Brown fine SAND, some silt, wet.	
-35		32-36	100	ND	ML. Brown dilatant SILT, wet.  becomes gray at 35'.	
-40					End of boring at 36'.	
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig. Refusal on first attempt at 14', offset 20' north. Collected soil samples GS-09-32-33' and GS-09-35-36' and submitted for analysis of TCL VOCs.  
Collected water samples GS-09-20-24', GS-09-28-32' and GS-09-33-37' and submitted for analysis of TCL VOCs.

BORING NO. : GS-10

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783843.65261 EASTING: 1010020.4992

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 901.5343

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/4/08

DATE FINISHED: 2/4/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

ML. Brown CLAYEY SILT, some fine to coarse gravel, moist.

-5

GM. Brown SILTY GRAVEL, some fine sand, trace clay, moist.

-10

40

ND

-15

SP. Brown fine SAND, trace fine gravel, moist.

-20

SP. Brown medium SAND, some fine to coarse gravel, moist.

-25

SW. Brown fine to medium SAND some fine to coarse gravel, moist.

SP. Brown medium SAND, some fine sand, trace fine gravel, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-10-30-31' and GS-10-35-36' and submitted for analysis of TCL VOCs.

Collected water samples GS-10-22-26', GS-10-26-30' and GS-10-32-36' and submitted for analysis of TCL VOCs.

BORING NO. : GS-10

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	50	ND		
					SW. Brown fine to medium SAND, trace coarse sand, wet.	
-30		28-32	100	ND	ML. Brown dilatant SILT, trace clay, wet.	
-35		32-36	100	ND		
					End of boring at 36'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-10-30-31' and GS-10-35-36' and submitted for analysis of TCL VOCs.

Collected water samples GS-10-22-26', GS-10-26-30' and GS-10-32-36' and submitted for analysis of TCL VOCs.

BORING NO. : GS-11

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783753.66372 EASTING: 1010216.63512

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 901.6713

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 1/31/08

DATE FINISHED: 2/1/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					ML. Brown CLAYEY SILT, some fine gravel, trace sand, moist.	
		0-4	80	ND		
-5					ML. Brown CLAYEY SILT and GRAVEL, dry.	
		4-8	60	ND		
-10					SM. Brown SILTY fine to coarse SAND, some gravel.	
		8-12	60	ND	SM. Brown SILTY fine SAND, very moist.	
					GM. Brown SILTY angular GRAVEL.	
-15					SM. Brown to gray, SILTY fine to coarse SAND and GRAVEL.	
		12-16	90	ND		
		16-20	75	ND	Wet at 19.8'.	
-20					SM. Brown SILTY fine to medium SAND, trace fine gravel, wet.	
		20-24	25	ND		
-25					SW. Brown fine to medium SAND, trace silt, wet.	

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-11-31-32' and GS-11-35-36' and submitted for analysis of TCL VOCs.

Collected water samples GS-11-20-24', GS-11-27-31' and GS-11-32-36' and submitted for analysis of TCL VOCs.

BORING NO. : GS-11

**URS Corporation**

# TEST BORING LOG

**BORING NO. : GS-11**

**PROJECT:** Hillcrest Area Site

**SHEET: 2 OF 2**

**CLIENT:** NYSDEC

**JOB NO. : 11175412.00000**

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	90	ND		
					SW. Brown medium to coarse SAND, wet.	
-30		28-32	100	ND	SW. Brown fine to coarse SAND, trace fine gravel, wet.	
					ML. Brown dilatant SILT, wet.	
-35		32-36	100	ND	becomes gray at 33.5'.	
					End of boring at 36'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-11-31-32' and GS-11-35-36' and submitted for analysis of TCL VOCs.

Collected water samples GS-11-20-24', GS-11-27-31' and GS-11-32-36' and submitted for analysis of TCL VOCs.

**BORING NO. : GS-11**





PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	5	ND		
-30		28-32	50	ND	SW. Brown medium to coarse SAND, some fine sand and fine rounded gravel, wet.	
-35		32-36	100	ND	ML. Brown dilatant SILT, trace very fine sand, wet.	
-40		36-40	100	ND	ML. Gray brown SILT, trace clay, wet.	
-45					End of boring at 40'.	
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-12-32.5-33.5' (plus MS/MSD) and GS-12-36.5-37.5' and submitted for analysis of TCL VOCs.

Collected water samples GS-12-24-28', GS-12-28.5-32.5' and GS-12-34-38' and submitted for analysis of TCL VOCs.

BORING NO. : GS-13

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 1

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 782318.35365 EASTING: 1008357.45644

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 894.2023

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED:

2/20/08

DATE FINISHED:

2/21/08

DRILLER:

E. Laurienzo

GEOLOGIST:

R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

-5

-10

-15

-20

-25



0-4

50

ND

ML. Dark brown CLAYEY SILT, trace coarse sand, moist.

ML. Brown CLAYEY SILT, trace coarse sand, moist.

4-8

50

ND

GM. Brown SILTY fine to medium SAND and fine to coarse GRAVEL, moist.

Becomes dry and gray brown at 7.5'.

8-12

50

ND

12-16

100

ND

SM. Gray brown SILTY fine to coarse SAND, some fine to coarse gravel, slightly moist. Mostly fine sand from 12.5-13.5'.

16-20

75

ND

GM. Gray brown SILTY GRAVEL, some fine to coarse sand, slightly moist to moist.

20-24

50

ND

SM. SILTY fine to coarse SAND, some fine gravel, dry.

GW. Gray brown fine to coarse rounded GRAVEL, dry.

End of boring at 24'. Refusal with Macrocore sampler, was able to advance water sampler to 32'.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig. Refusal encountered before silt layer.

No soil samples collected for analysis. Advanced water sampler into water table and collected water sample

GS-13-28-32' and submitted for analysis of TCL VOCs.

BORING NO. : GS-13

BORING NO. : GS-14

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783946.54814 EASTING: 1009896.9241

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 902.8620

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED:

2/5/08

DATE FINISHED:

2/5/08

DRILLER:

E. Laurienzo

GEOLOGIST:

R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

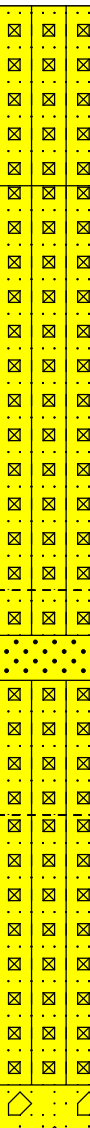
-5

-10

-15

-20

-25



0-4

60

ND

GM. Brown SILT and fine to coarse GRAVEL, moist.

4-8

30

ND

GM. Brown SILTY fine to coarse GRAVEL, moist to dry.

8-12

40

ND

12-16

75

ND

GM. Brown SILTY fine GRAVEL, moist.

SP. Brown fine SAND, moist.

GM. Brown SILT and fine GRAVEL, some fine sand, moist.

16-20

75

ND

GM. Brown SILTY GRAVEL, dry to moist.

20-24

50

ND

GW. Brown Coarse SAND to Coarse well rounded GRAVEL, trace silt, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig. Took three attempts to advance boring to 32 feet. Collected soil samples GS-14-28-29' and GS-14-30-31' and submitted for analysis of TCL VOCs.

Collected water samples GS-14-24-28' (plus MS/MSD) and GS-14-28-32' and submitted for analysis of TCL VOCs.

BORING NO. : GS-14

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	50	ND		
-30		28-32	100	ND	ML. Brown dilatant SILT, some very fine sand, wet.	
-35					End of boring at 32'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig. Took three attempts to advance boring to 32 feet. Collected soil samples GS-14-28-29' and GS-14-30-31' and submitted for analysis of TCL VOCs.  
Collected water samples GS-14-24-28' (plus MS/MSD) and GS-14-28-32' and submitted for analysis of TCL VOCs.

BORING NO. : GS-15

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 782372.62647 EASTING: 1008994.92106

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 892.2312

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/20/08

DATE FINISHED: 2/20/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

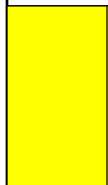
-5

-10

-15

-20

-25

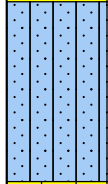


0-4

10

ND

ML. Brown CLAYEY SILT, some fine to coarse gravel and fine sand, moist.

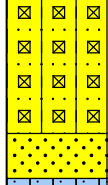


4-8

50

ND

SM. Brown SILTY fine to coarse SAND, some gravel, very moist 4-6', then dry and gray brown at 6-8'.

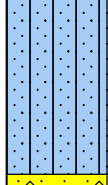


8-12

90

ND

GM. Gray brown SILTY fine to coarse GRAVEL, some fine to coarse sand, dry with occasional moist zones.

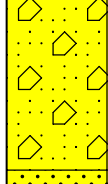


12-16

90

ND

SM. Gray brown SILTY fine to coarse SAND, some fine to coarse gravel, dry.

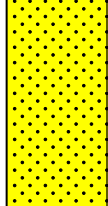


16-20

10

ND

GW. Brown fine to coarse GRAVEL, some fine to coarse sand and silt, wet.



20-24

50

ND

SW. Brown fine to coarse SAND, some fine rounded gravel, trace to some silt, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig. Collected soil sample GS-15-30-31' and submitted for analysis of TCL VOCs. Collected water samples GS-15-16-20'(plus FD-022008), GS-15-26-30' (plus MS/MSD), and GS-15-32-36' and submitted for analysis of TCL VOCs.

BORING NO. : GS-15

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	0	ND		
					SM. Brown SILTY fine SAND and fine rounded gravel, wet.	
-30		28-32	50	ND	ML. Brown SILT and very fine SAND, dilatant, wet.	
					ML. Brown SILT, trace to some very fine sand, wet.	
-35		32-36	100	ND		
					End of boring at 36'.	
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig. Collected soil sample GS-15-30-31' and submitted for analysis of TCL VOCs. Collected water samples GS-15-16-20'(plus FD-022008), GS-15-26-30' (plus MS/MSD), and GS-15-32-36' and submitted for analysis of TCL VOCs.

BORING NO. : GS-16

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 1

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785219.70853 EASTING: 1010505.41856

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 895.623

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/5/08

DATE FINISHED: 2/5/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

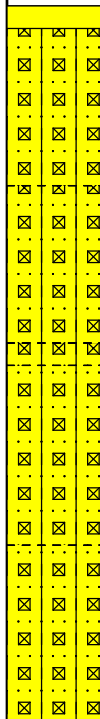
-5

-10

-15

-20

-25



0-4

60

ND

ML. Brown CLAYEY SILT, moist.  
GM. Brown to gray brown CLAYEY SILT and fine to coarse GRAVEL, moist.

4-8

50

ND

GM. Brown SILTY GRAVEL, some fine sand, moist.

8-12

60

ND

GM. Brown fine rounded GRAVEL to coarse SAND with CLAYEY SILT.  
GM. Gray brown CLAYEY SILT and fine to coarse GRAVEL, dry.

12-16

100

ND

GM. Gray brown SILTY GRAVEL, some fine to coarse sand, dry.

16-20

75

ND

SP. Brown fine SAND, trace coarse sand, moist.

SM. Brown SILTY fine to coarse SAND, wet.

20-24

100

ND

ML. Brown CLAYEY SILT, wet in zones.

End of boring at 24'.

COMMENTS: Boring advanced with a tuck-mounted Simco Earthprobe 200 direct-push rig. Collected soil sample GS-16-20-21' and submitted for analysis of TCL VOCs. Collected water sample GS-16-16-20' and submitted for analysis of TCL VOCs.  
Attempted to collect water sample from silt layer at 21-25', however, no water was recovered.

BORING NO. : GS-16

BORING NO. : GS-17

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 1

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785518.22868 EASTING: 1009144.0024

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 866.3025

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/21/08

DATE FINISHED: 2/21/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

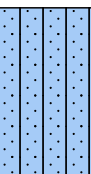
-5

-10

-15

-20

-25



0-4

75

ND

SM. Gray brown SILTY fine to medium SAND, some fine to coarse gravel, moist.

4-8

50

ND

GW. Brown fine to coarse GRAVEL, some fine to coarse sand, little silt.

Wet at 8'.

8-12

50

ND

GM. Brown SILT and fine GRAVEL, wet.

12-16

90

ND

ML. Brown SILT, some fine rounded GRAVEL, some very fine sand, wet.

ML. Brown SILT, some very fine sand, dilatant, wet.

16-20

100

ND

ML. Brown SILT, trace very fine sand, clayey stringers at 18', dilatant, wet.

20-24

100

ND

ML. Brown SILT, dilatant, wet. Silty clay layer from 22.0 to 22.3'.

End of boring at 24'.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-17-15-16' and submitted for analysis of TCL VOCs.

Collected water samples GS-17-8-12', GS-17-12-16', GS-17-16-20' and submitted for analysis of TCL VOCs

BORING NO. : GS-17



BORING NO. : GS-18

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784337.994 EASTING: 1008410.60385

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 854.9579

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/18/08

DATE FINISHED: 2/18/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0						FILL. Asphalt and gravel subbase.
						GM. Light brown SILT and fine to coarse GRAVEL, some fine sand, dry.
		0-4	60	ND		
						GM. Brown SILTY coarse SAND to fine GRAVEL, some fine sand, very moist.
-5		4-8	50	ND		ML. Gray CLAYEY SILT, with iron staining, moist.
						ML. Gray brown CLAYEY SILT, with rusty mottling, moist.
-10		8-12	95	ND		ML. Gray brown CLAYEY SILT, trace fine sand, trace fine gravel, moist.
						SW. Gray brown fine to medium SAND, very moist.
-15		12-16	100	ND		GP. Brown coarse SAND and fine GRAVEL, some fine sand, wet.
		16-20	50	ND		SW. Brown fine to medium SAND, wet.
-20						GP. Brown coarse SAND to fine rounded GRAVEL, some fine to medium sand, wet.
		20-24	90	ND		ML. Brown SILT, dilatant, wet.
-25						Becomes gray at 23.5'. Occasional clay stringers.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-18-22-23' and GS-18-27-28' (plus FD-021808) and submitted for analysis of TCL VOCs.

Collected water samples GS-18-18-22' and GS-18-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-18

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
-30					End of boring at 28'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-18-22-23' and GS-18-27-28' (plus FD-021808) and submitted for analysis of TCL VOCs.

Collected water samples GS-18-18-22' and GS-18-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-19

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785205.38649 EASTING: 1009187.17528

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 890.3632

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/14/08

DATE FINISHED: 2/15/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim B...*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					ML. Dark brown peaty SILT, moist.
					GM. Brown Very SILTY fine SAND to fine GRAVEL, moist.
		0-4	80	ND	
-5					SM. Brown SILTY fine SAND and fine gravel, moist.
		4-8	60	ND	
					SM. Brown SILTY fine and coarse SAND, some fine gravel, very moist.
-10					
		8-12	60	ND	
					GM. Gray brown SILTY fine to coarse SAND and GRAVEL, dry.
-15					
		12-16	90	ND	
					GM. Gray brown SILTY medium SAND to fine GRAVEL, some coarse gravel, trace fine sand, dry.
-20					
		16-20	90	ND	
		20-24	100	ND	
					SP. Brown fine SAND, very moist.
-25					SM. Brown SILTY fine to very fine SAND.
					ML. Brown SILT, trace to some very fine sand, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-19-24-25' and submitted for analysis of TCL VOCs.

Collected water sample GS-19-28-32' and submitted for analysis of TCL VOCs.

BORING NO. : GS-19

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND	ML. Brown SILT, trace very fine sand, dilatant, wet.	
-30					End of boring at 28'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-19-24-25' and submitted for analysis of TCL VOCs.

Collected water sample GS-19-28-32' and submitted for analysis of TCL VOCs.

BORING NO. : GS-20

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 782713.99948 EASTING: 1008856.94674

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 894.1004

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/18/08

DATE FINISHED: 3/5/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					ML. Dark brown CLAYEY SILT, moist.
					ML. Brown CLAYEY SILT, trace organics (roots), moist.
		0-4	50	ND	
					GM. Brown SILTY fine SAND and fine to coarse GRAVEL, moist.
-5		4-8	50	ND	GM. Brown SILTY fine to coarse GRAVEL, some fine to medium sand, trace cobble, moist.
		8-12	25	ND	
-10					
		12-16	100	ND	SM. Brown to gray brown SILTY fine to coarse SAND, some fine to coarse rounded gravel, dry.
-15		16-20	100	ND	GM. Gray brown SILTY fine to coarse GRAVEL, some fine to coarse sand, dry.
-20		20-22	100	ND	GW. Brown fine to coarse GRAVEL, some fine to medium sand, dry to moist.
		22-24	50	ND	
-25					GP. Gray brown fine GRAVEL some fine to medium sand, wet.

COMMENTS: Boring first advanced until refusal at 20' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/5/08 with Mobile B-57 truck mounted rig, collected soil sample GS-20-51.5-52' and submitted for analysis of TCL VOCs. Collected water samples GS-20-24-29' and GS-20-45-50' and submitted for analysis of TCL VOCs.

BORING NO. : GS-20

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-26	5	ND		
		26-28	2	ND	SW. Brown fine to medium SAND, wet.	
		28-30	25	ND	GW. Brown fine to coarse GRAVEL and coarse sand, wet.	
-30		30-32	10	ND	GW. Brown fine to coarse rounded GRAVEL, wet.	
		32-34	30	ND	GP. Brown fine rounded gravel, some coarse sand, wet.	
-35		34-36	75	ND	SP. Brown fine SAND, trace fine gravel, trace coarse sand, wet.	
		36-38	75	ND	SP. Brown fine SAND, wet.	
		38-40	90	ND		
-40		40-42	100	ND		
		42-44	100	ND		
-45		44-46	100	ND	SP. Brown fine SAND, trace silt, wet.	
		46-48	100	ND	SM. Brown SILTY fine SAND, wet.	
-50		48-50	100	ND		
		50-52	100	ND	ML. Brown SILT, trace very fine sand, dilatant, wet.	
-55					End of boring at 52'.	

COMMENTS: Boring first advanced until refusal at 20' with a truck-mounted Simco Earthprobe 200 direct-push rig.  
 Returned 3/5/08 with Mobile B-57 truck mounted rig, collected soil sample GS-20-51.5-52' and submitted for analysis  
 of TCL VOCs. Collected water samples GS-20-24-29' and GS-20-45-50' and submitted for analysis of TCL VOCs.

BORING NO. : GS-21

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 782734.26157 EASTING: 1008407.59015

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 898.0783

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/19/08

DATE FINISHED: 3/4/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					ML. Dark brown CLAYEY SILT, moist.
					ML. Brown CLAYEY SILT, some fine to coarse gravel, some fine sand, moist.
		0-4	70	ND	
-5					GM. Brown SILTY fine to coarse GRAVEL, some fine to coarse sand, moist.
		4-8	50	ND	
-10					GM. Brown SILTY fine to coarse GRAVEL, some fine to coarse sand, moist.
		8-12	60	ND	
					Becomes drier, gray brown.
-15					
		12-16	75	ND	
		16-20	100	ND	
-20					SP. Gray brown fine SAND, moist.
		20-24	100	ND	
					GM. Gray brown fine to coarse GRAVEL and fine to coarse SAND, some silt, dry to moist.
-25					GW. Gray brown fine to coarse rounded GRAVEL, some fine sand, trace cobble, dry.

COMMENTS: Boring first advanced until refusal at 26' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/5/08 with Mobile B-57 truck mounted rig, no soil samples collected for analysis, silt not encountered.

Collected water sample GS-21-40-45' and submitted for analysis of TCL VOCs.

BORING NO. : GS-21

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-26	100	ND		
		26-28	80	ND	SW. Gray brown fine to coarse SAND, some fine gravel, dry.	
		28-30	50	ND		
-30		30-32	50	ND		
		32-34	0	ND	GP. Gray brown coarse SAND and fine GRAVEL, some medium sand and coarse gravel, dry.	
		34-36	90	ND		
-35		36-38	0	ND		
		38-40	20	ND	GW. Brown fine to coarse GRAVEL, some fine to coarse sand, wet.	
-40		40-42	50	ND	SW. Brown fine to medium SAND, some fine gravel, wet.	
		42-44	60	ND		
		44-46	60	ND	GP. Brown fine to medium SAND and fine GRAVEL, wet.	
-45		46-48	50	ND	SW. Brown fine to medium SAND, trace fine gravel, wet.	
		48-50	0	ND		
-50		50-52	0	ND		
					End of boring at 52'.	
-55						

COMMENTS: Boring first advanced until refusal at 26' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/5/08 with Mobile B-57 truck mounted rig, no soil samples collected for analysis, silt not encountered.

Collected water sample GS-21-40-45' and submitted for analysis of TCL VOCs.



BORING NO. : GS-22

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784711.11811 EASTING: 1008597.39167

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 853.2092

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/15/08

DATE FINISHED: 2/15/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					FILL. Black silty coarse gravel.
		0-4	100	ND	FILL. Brown clayey silt and fine to coarse gravel, trace asphalt.
-5		4-8	60	ND	Brick at 8'.
					FILL. Brown clayey silt, trace wood.
-10		8-12	75	ND	ML. Gray very CLAYEY SILT, moist.
					ML. Gray CLAYEY SILT, trace organics (roots), moist.
-15		12-16	90	ND	GM. Gray brown SILTY fine SAND to fine rounded GRAVEL, very moist.
					GW. Brown fine to coarse SAND and fine to coarse rounded GRAVEL, trace to some silt, wet.
-20		16-20	50	ND	ML. Brown SILT with occasional clayey stringers. Becomes grayer at 22'.
					ML. Gray brown CLAYEY SILT, dilatant, wet.
-25		20-24	75	ND	

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-22-20.5-21.5' and submitted for analysis of TCL VOCs.

Collected water samples GS-22-17-21' and GS-22-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-22

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
-30					End of boring at 28'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-22-20.5-21.5' and submitted for analysis of TCL VOCs.

Collected water samples GS-22-17-21' and GS-22-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-23

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784925.73219 EASTING: 1009724.83272

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 894.4267

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/13/08

DATE FINISHED: 2/15/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

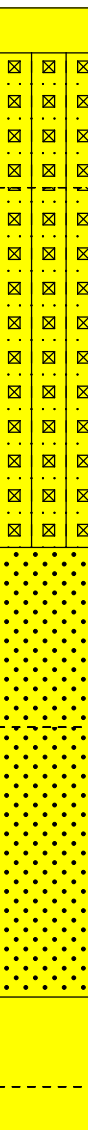
RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0  
-5  
-10  
-15  
-20  
-25



0-4

70

ND

ML. Brown CLAYEY SILT, moist.

GM. Brown SILTY fine GRAVEL, moist.

4-8

35

ND

GM. Brown SILTY fine to coarse GRAVEL, moist.

some fine to medium sand

8-12

50

ND

SP. Brown fine SAND, some coarse sand to fine gravel, moist.

12-16

80

ND

SP. Brown fine SAND, trace coarse sand and fine gravel, moist.

16-20

70

ND

Wet at 20'.

20-24

80

ND

ML. Brown SILT, trace to some very fine sand, dilatant, wet.

ML. Brown SILT, dilatant, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-23-22-23' and GS-23-27-28' and submitted for analysis of TCL VOCs.

Collected water samples GS-23-20-24' (plus FD-021508) and GS-23-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-23

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
-30					End of boring at 40'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil samples GS-23-22-23' and GS-23-27-28' and submitted for analysis of TCL VOCs.

Collected water samples GS-23-20-24' (plus FD-021508) and GS-23-24-28' and submitted for analysis of TCL VOCs.

BORING NO. : GS-24

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785251.6767 EASTING: 1008834.16338

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 854.1545

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/14/08

DATE FINISHED: 2/14/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0					FILL. Brown to gray silty gravel, dry.
		0-4	60	ND	GM. Gray brown SILTY GRAVEL, some fine sand, dry.
-5		4-8	75	ND	GM. Brown SILTY fine SAND and GRAVEL, dry to moist.
-10		8-12	90	ND	ML. Gray CLAYEY SILT, some fine rounded gravel, moist.
					ML. Gray CLAYEY SILT, trace gravel, moist.
-15		12-16	90	ND	ML. Gray CLAYEY SILT.
		16-20	100	ND	SM. Gray brown SILT with coarse SAND, some fine sand and fine gravel, loose, wet.
-20					SM. Gray SILT, trace organics (roots), moist, then wet silty fine sand, some fine rounded gravel at 20'.
		20-24	90	ND	ML. Brown SILT, trace to some clay, dilatant, wet.
-25					ML. Gray SILT, trace clay, dilatant, wet.

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-24-20-21' and submitted for analysis of TCL VOCs.

Collected water sample GS-24-16-20' and submitted for analysis of TCL VOCs.

BORING NO. : GS-24

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	100	ND		
-30					End of boring at 28'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced with a truck-mounted Simco Earthprobe 200 direct-push rig.

Collected soil sample GS-24-20-21' and submitted for analysis of TCL VOCs.

Collected water sample GS-24-16-20' and submitted for analysis of TCL VOCs.

BORING NO. : GS-25

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785106.82282 EASTING: 1009338.55145

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 890.0753

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/7/08

DATE FINISHED: 3/7/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

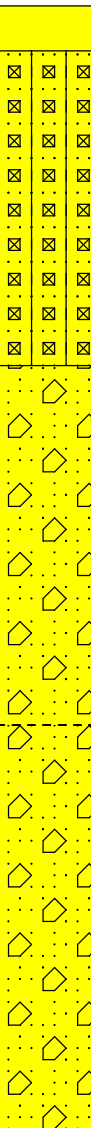
-5

-10

-15

-20

-25



0-4

60

ND

ML. Dark brown CLAYEY SILT, moist.

GM. Brown SILTY fine SAND and fine GRAVEL, moist. Very moist from 4-8'.

4-8

50

ND

8-12

50

ND

GW. Gray brown GRAVEL, some silty fine sand, dry.

12-16

75

ND

16-18

50

ND

GW. Gray brown fine to coarse rounded GRAVEL, some fine to coarse sand, dry.

18-20

75

ND

20-22

90

ND

22-24

50

ND

COMMENTS: Boring advanced to refusal at 16.1' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/7/08 with Mobile B-57 truck mounted drill rig, collected soil sample GS-25-28-29' and submitted for analysis

of TCL VOCs. Collected water sample GS-25-25-30' and submitted for analysis of TCL VOCs.

BORING NO. : GS-25

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-26	75	ND	Wet at 25'.	
		26-28	60	ND	GW. Brown fine to coarse GRAVEL, some fine to coarse sand, trace silt, wet.	
		28-30	50	ND	ML. Brown SILT, trace very fine sand, dilatant, wet.	
-30					End of boring at 30'.	
-35						
-40						
-45						
-50						
-55						

COMMENTS: Boring advanced to refusal at 16.1' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/7/08 with Mobile B-57 truck mounted drill rig, collected soil sample GS-25-28-29' and submitted for analysis of TCL VOCs. Collected water sample GS-25-25-30' and submitted for analysis of TCL VOCs.



BORING NO. : GS-26

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785523.44365 EASTING: 1009457.17155

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 892.9454

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/7/08

DATE FINISHED: 3/17/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

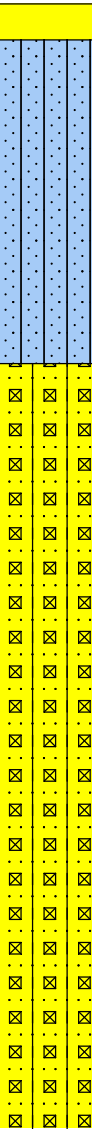
-5

-10

-15

-20

-25



0-4

60

ND

4-8

50

ND

8-12

50

ND

12-16

75

ND

16-20

50

ND

20-24

75

ND

ML. Dark brown CLAYEY SILT, moist.

SM. Brown SILTY fine SAND, some coarse sand and fine to coarse gravel, moist. Very moist from 4-8'.

GM. Gray brown SILTY fine SAND and fine to coarse GRAVEL, trace cobbles, moist to dry.

COMMENTS: Boring first advanced to refusal at 26.5' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/17/08 with Mobile B-57 truck mounted drill rig, collected soil sample GS-26-43-44' and submitted for analysis

of TCL VOCs. Collected water samples GS-26-32-36' and GS-26-38-43' and submitted for analysis of TCL VOCs.

BORING NO. : GS-26



BORING NO. : GS-27

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785403.65074 EASTING: 1009842.2105

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 893.9858

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED: 2/7/08

DATE FINISHED: 3/6/08

DRILLER: E. Laurienzo

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

REMARKS

0

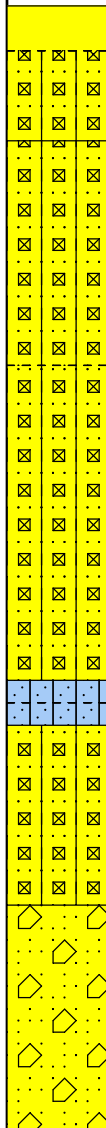
-5

-10

-15

-20

-25



0-4

60

ND

ML. Dark brown CLAYEY SILT, moist.

GM. Brown CLAYEY SILT and fine to coarse GRAVEL, moist.

GM. Brown SILTY fine to medium SAND and fine to coarse GRAVEL, moist.

4-8

60

ND

8-12

60

ND

GM. Brown SILTY GRAVEL, some medium to coarse sand, moist to dry.

12-16

60

ND

SM. Brown SILTY very fine SAND, moist.

SM. Brown SILTY fine SAND, some coarse sand to fine gravel, moist.

GM. Brown SILTY GRAVEL, some medium to coarse sand, very moist 16-17' then dry.

16-20

75

ND

20-24

60

ND

GW. Brown to gray brown fine to coarse rounded GRAVEL, some medium to coarse sand, some silt, dry.

COMMENTS: Boring first advanced to refusal at 31' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/6/08 with Mobile B-57 truck mounted drill rig, collected soil sample GS-27-37-38' and submitted for analysis

of TCL VOCs. Collected water sample GS-27-34-38' and submitted for analysis of TCL VOCs.

BORING NO. : GS-27

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-28	80	ND		
		28-30	100	ND		
-30		30-32	50	ND	SW. Gray brown fine to coarse SAND and fine gravel, moist.	
		32-34	50	ND	SM. Gray brown SILTY fine SAND and fine to coarse gravel, moist.	
-35		34-36	75	ND	SM. Brown SILTY very fine SAND, wet.	
		36-38	90	ND	ML. Brown SILT, some very fine sand, dilatant, wet.	
-40					End of boring at 38'.	
-45						
-50						
-55						

COMMENTS: Boring first advanced to refusal at 31' with a truck-mounted Simco Earthprobe 200 direct-push rig.

Returned 3/6/08 with Mobile B-57 truck mounted drill rig, collected soil sample GS-27-37-38' and submitted for analysis of TCL VOCs. Collected water sample GS-27-34-38' and submitted for analysis of TCL VOCs.

BORING NO. : GS-28

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785949.01079 EASTING: 1009169.93292

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 857.4689

DATE

TIME

LEVEL

TYPE

TYPE

Macrocore

DATE STARTED:

3/14/08

DATE FINISHED:

3/14/08

DRILLER:

E. Laurienzo

GEOLOGIST:

R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

RECOVERY  
(%)

PID  
(PPM)

MATERIAL  
DESCRIPTION

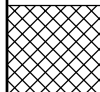
REMARKS

0

No samples collected due to obvious fill material.

-5

-10



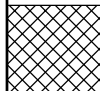
10-12

40

ND

FILL. Gray brown silty fine to coarse sand, wood. Augered through 6-8" of wood.

-15

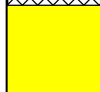


14-16

0

ND

FILL. Drove wood with spoon.

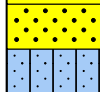


16-18

75

ND

ML. Gray SILT, trace clay.



18-20

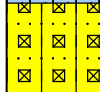
100

ND

SP. Gray brown fine SAND, trace silt, wet.

SM. Brown silty fine to medium SAND, wet.

-20

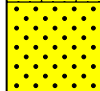


20-22

25

ND

GM. Brown fine GRAVEL, some coarse sand, trace silt, wet.



22-24

25

ND

SP. Brown fine SAND, some coarse sand, trace fine gravel, wet.

-25



SM. Brown SILTY fine SAND, some rounded fine gravel, wet.

COMMENTS: Boring advanced with a Mobile B-57 truck mounted drill rig using 2 1/4" hollow stem augers.

No soil sample was collected for analysis because silt unit was not encountered.

Collected water samples GS-28-18-22' and GS-28-45-50' and submitted for analysis of TCL VOCs.

BORING NO. : GS-28

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE DEPTH	RECOVERY (%)	PID (PPM)	MATERIAL DESCRIPTION	REMARKS
		24-26	75	ND		
		26-28	80	ND	some coarse gravel from 26-28'.	
		28-30	60	ND	GM. Brown SILTY rounded fine to coarse gravel, some coarse sand, wet.	
-30		30-32	50	ND	GW. Gray brown fine to coarse GRAVEL, some coarse sand, wet.	
		32-34	50	ND	SW. Gray brown fine to medium SAND, trace fine gravel, wet.	
-35		34-36	40	ND	GP. Gray coarse SAND and fine GRAVEL, wet.	
		36-38	90	ND	SP. Gray brown fine SAND, wet.	
		38-40	25	ND	GP. Gray brown coarse SAND to fine GRAVEL, wet.	
-40		40-42	25	ND	SP. Gray brown fine SAND, some coarse gravel, wet.	
		42-44	70	ND	No gravel from 42-43'.	
		44-46	50	ND	SW. Gray brown fine to coarse SAND, trace silt and rounded fine gravel, wet.	
-45		46-48	100	ND	SP. Gray brown fine SAND, wet.	
		48-50	60	ND	GW. Gray brown fine to coarse GRAVEL, some fine to medium sand, wet.	
-50					SP. Gray brown fine SAND, trace fine gravel, wet.	
					End of boring at 50'.	
-55						

COMMENTS: Boring advanced with a Mobile B-57 truck mounted drill rig using 2 1/4" hollow stem augers.

No soil sample was collected for analysis because silt unit was not encountered.

Collected water samples GS-28-18-22' and GS-28-45-50' and submitted for analysis of TCL VOCs.

BORING NO. : MW-07-01

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 1

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783852.37281 EASTING: 1010301.08472

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 899.21

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/10/08

3/10/08

12:00

14' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/10/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0						No samples collected, see GS-02 for lithologic information.			8" Flushmount Casing
-5									2" Sch. 40 PVC Riser: 10.5'-0.5'
-10									Bentonite: 8.5'-6'
-15									#0 (Ricci Bros.) Sand: 21'-8.5'
-20									10 slot, 2" Sch. 40 PVC Screen: 20.5'-10.5'
-15		14-16	14, 17, 13, 13	5	ND	SW. Medium to coarse SAND, wet.			
-20		19-21	9, 11, 5, 5	5	ND	SW. Medium to coarse SAND, wet.			
-25						End of boring at 21'. Installed PVC monitoring well.			

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

See nearby GS-02 boring log for additional lithologic information.

BORING NO. : MW-07-01

BORING NO. : MW-07-02

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 1

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784666.81836 EASTING: 1010644.84911

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 898.12

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/10/08

3/10/08

14:35

18' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/10/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

Tim Bunn

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0

-5

-10

-15

-20

-25

Samples only collected to confirm depth of saturated conditions, see GS-06 for additional lithologic information.

8" Flushmount Casing

2" Sch. 40 PVC Riser: 15'-0.5'

Bentonite: 13.5'-11.5'

#0 (Ricci Bros.) Sand: 25'-13.5'

10 slot, 2" Sch. 40 PVC Screen: 25'-15'

16-18

23, 16, 13, 7

20

ND

GM. Brown SILTY fine to coarse GRAVEL, some fine to coarse sand, moist.

SP. Brown fine SAND, very moist.

18-20

6, 2, 1, 1

50

ND

SM. Gray brown SILTY medium to coarse SAND, some fine gravel, wet.

End of boring at 28'. Augered to 28', flowing sand came into augers to 25'. Set well at 25'.

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

See nearby GS-06 boring log for additional lithologic information.

BORING NO. : MW-07-02



BORING NO. : MW-07-03

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785056.7805 EASTING: 1010587.37202

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 898.9

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/18/08

3/18/08

15:30

19.5' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/18/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

*Tim Burren*

DEPTH  
FEET

STRATA

DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0						ML. Gray to dark brown CLAYEY SILT, moist			8" Flushmount Casing
		0-2	1, 1, 2, 3	75	ND	ML. Red brown CLAYEY SILT, some gravel, moist.			
		2-4	3, 5, 4, 3	75	ND	GM. Brown fine to coarse GRAVEL and SILTY fine SAND, some coarse sand.			
-5		4-6	3, 4, 3, 3	20	ND	GM. Brown SILTY GRAVEL, some coarse sand, moist.			
		6-8	6, 50/5"	40	ND				
		8-10	7, 30, 33, 35	75	ND	GM. Gray brown SILTY fine to coarse GRAVEL, dry.			2" Sch. 40 PVC Riser: 17.5'-0.5'
-10									
		10-12	14, 32, 36, 37	60	ND	GM. Gray brown SILTY fine to coarse GRAVEL, some medium to coarse sand, dry.			
		12-14	50/4"	0	ND				
-15		14-16	42, 50/1"	100	ND				Bentonite: 13'-15'
		16-18	16, 17, 16, 18	40	ND				
		18-20	12, 8, 6, 5	50	ND	SW. Brown fine to coarse SAND some fine gravel. Wet at 19.5'.			
-20									
		20-22	4, 5, 5, 4	60	ND	SW. Brown fine to medium SAND, some coarse sand and fine to coarse rounded gravel, wet			#0 (Ricci Bros.) Sand: 26.5'-15'
		22-24	3, 2, 4, 4	60	ND	SW. Brown fine to medium SAND, trace fine gravel and coarse sand, wet.			
-25						SP. Brown fine SAND, trace medium to coarse sand and silt, wet.			

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

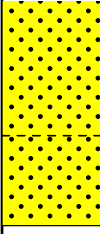
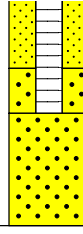
BORING NO. : MW-07-03

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30		24-26	6, 4, 3, 4	60	ND	SP. Brown fine SAND, trace silt, wet.		10 slot, 2" Sch. 40 PVC Screen: 27.5'-17.5'
		26-28	woh, 1, 1, 2	30	ND			
		28-30	wor, wor, 1, 2	50	ND			Natural material cave-in: 30.0'- 26.5'
-30						End of boring at 30'. Natural cave-in to 26.5' due to heaving sands.		
-35								
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

BORING NO. : MW-07-04

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784104.04104 EASTING: 1010105.65393

GROUNDWATER: CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 903.22

DATE TIME LEVEL TYPE TYPE HSA Split Spoon

DATE STARTED: 3/17/08

3/18/08 07:30 27.0' bgs Open hole DIA. 4 1/4" 2"

DATE FINISHED: 3/17/08

WT. 140 lbs.

DRILLER: Steve Gingrich

FALL 30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID (ppm)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					

0						No samples collected, see nearby GS-12 boring log for lithologic information.		8" Flushmount Casing
-5								
-10								2" Sch. 40 PVC Riser: 22.5'-0.5'
-15								
-20								Bentonite: 18.5'-20.5'
-25								#0 (Ricci Bros.) Sand: 32.5'-20.5'

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

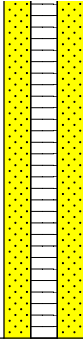
BORING NO. : MW-07-04

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30							 <p>10 slot, 2" Sch. 40 PVC Screen: 32.5'-22.5'</p>	
-35						End of boring at 32.5'.		
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

BORING NO. : MW-07-05

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784388.95257 EASTING: 1009963.76869

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 904.95

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/20/08

3/20/08

14:10

25' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/20/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0

0-2

1, 1, 1, 2

90

ND

ML. Dark brown CLAYEY SILT, trace gravel, moist.  
Becomes brown at 1'.

8" Flushmount  
Casing

2-4

3, 5, 4, 3

20

ND

GM. Brown SILT and GRAVEL, some coarse sand, moist.

4-6

5, 4, 2, 2

10

ND

GM. Brown fine to coarse GRAVEL, some coarse sand and silt,  
trace clay, very moist.

-5

6-8

3, 5, 10, 12

30

ND

GM. Brown SILTY fine to coarse GRAVEL, trace coarse sand,  
damp.

8-10

21, 41, 50/3"

50

ND

GW. Gray fine to coarse GRAVEL, dry.

2" Sch. 40 PVC  
Riser: 20'-0.5'

-10

10-12

18, 50/5"

90

ND

GM. Gray brown SILTY fine to coarse GRAVEL, dry.

12-14

17, 50/4"

90

ND

SM. Gray brown SILTY fine to coarse SAND, trace coarse sand, dry.

-15

14-16

15, 22, 24,  
30

75

ND

GW. Gray brown fine to coarse GRAVEL, some coarse sand, trace  
silt

16-18

20, 26, 32,  
50/4"

80

ND

Bentonite: 18'-  
16'

18-20

50/4"

25

ND

-20

20-22

20, 48, 50/3"

75

ND

GW. Gray brown fine to coarse GRAVEL, some fine to coarse sand,  
dry.

#0 (Ricci Bros.)  
Sand: 30'-18"

22-24

50/3"

100

ND

GW. Gray brown fine to coarse GRAVEL.

-25

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.


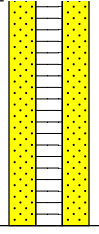


BORING NO. : MW-07-05

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30		24-26	8, 5, 4, 8	20	ND	Wet at 25'.		10 slot, 2" Sch. 40 PVC Screen: 30'-20'
		26-28	2, 4, 8, 4	1	ND	SP. Coarse SAND, trace silt, wet.		
		28-30	6, 3, 4, 4	100	ND	ML. Brown dilatant SILT, wet.		
-30						End of boring at 30'.		
-35								
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

BORING NO. : MW-07-06

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784227.31447 EASTING: 1009679.02571

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 904.05

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/12/08

3/12/08

16:00

24.0' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/12/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

*Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0						ML. Brown organic topsoil, moist.			8" Flushmount Casing
		0-2	1, 4, 3, 4	25	ND	GM. Brown SILTY GRAVEL, some fine to coarse sand, moist			
		2-4	5, 3, 3, 7	10	ND				
		4-6	2, 4, 5, 6	10	ND				
-5		6-8	34, 36, 25, 27	10	ND	GW. GRAVEL, some medium to coarse sand, slightly moist to dry.			2" Sch. 40 PVC Riser: 22'-0.5'
		8-10	30, 44, 50/5"	15	ND				
-10		10-12	14, 25, 33, 50/3"	80	ND	GM. Gray brown fine to coarse GRAVEL, some silt, some fine to medium sand, dry.			
		12-14	16, 50/5"	80	ND				
-15		14-16	44, 50/3"	90	ND				
		16-18	4, 18, 22, 16	50	ND	GM. Gray brown SILTY fine to coarse SAND and fine to coarse GRAVEL, dry to slightly moist.			
		18-20	16, 37, 42, 50/3"	60	ND	GM. Gray brown fine to coarse GRAVEL, some fine to coarse sand and silt, dry.			
-20		20-22	48, 50/3"	90	ND	GM. Gray brown SILTY fine to coarse GRAVEL some fine to coarse sand, dry.			
		22-24	9, 9, 10, 11	10	ND	SP. Gray brown fine SAND, some coarse sand and gravel, trace silt, slightly moist.			
-25						SP. Brown fine SAND, trace coarse sand, gravel, and silt, wet.			Bentonite: 18'-20'

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

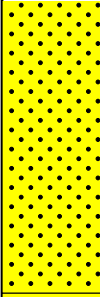
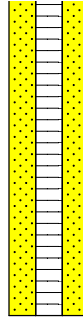
BORING NO. : MW-07-06

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30		24-26	1, 3, 8, 7	75	ND	ML. Brown SILT, dilatant, wet.		#0 (Ricci Bros.) Sand: 32'-20'  10 slot, 2" Sch. 40 PVC Screen: 32'-22'
		26-28	9, 10, 10, 14	75	ND			
		28-30	2, 10, 14, 13	30	ND			
		30-32	5, 7, 8, 6	60	ND			
		32-34	1, 1, 3, 5	80	ND			
-35						End of boring at 34'. Sampled to 34', augered to 32'.		
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.



BORING NO. : MW-07-07

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785405.03419 EASTING: 1009840.55903

GROUNDWATER: CAS. SAMPLER CORE TUBE

GROUND ELEVATION: 894.01

DATE TIME LEVEL TYPE TYPE HSA

DATE STARTED: 3/21/08

DIA. 4 1/4"

DATE FINISHED: 3/21/08

WT.

DRILLER: Steve Gingrich

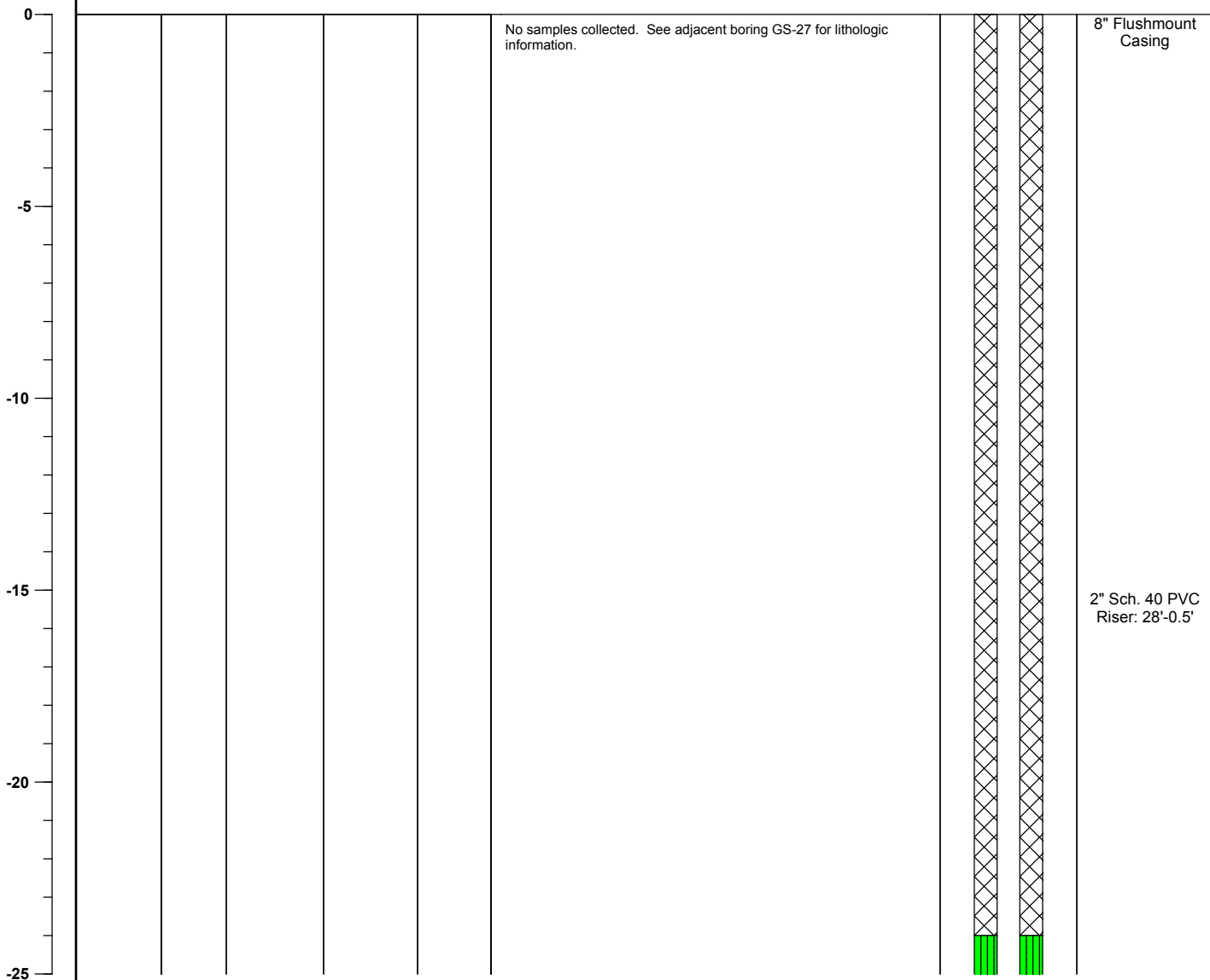
FALL

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID (ppm)	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					



COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

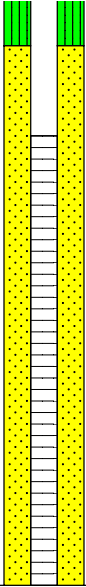
BORING NO. : MW-07-07

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30								Bentonite: 26'-24'  #0 (Ricci Bros.) Sand: 38'-26'  10 slot, 2" Sch. 40 PVC Screen: 38'-28'
-35								
-40						End of boring at 30'.		
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

BORING NO. : MW-07-08

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784830.89057 EASTING: 1009599.55789

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 895.88

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED:

3/19/08

3/19/08

13:40

19.2' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED:

3/19/08

WT.

140 lbs.

DRILLER:

Steve Gingrich

FALL

30"

GEOLOGIST:

R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

*Tom Burren*

DEPTH  
FEET

STRATA

SAMPLE

DEPTH

BLOW  
COUNTS

RECOVERY

(%)

PID

(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0						ML. Brown CLAYEY SILT, moist.			8" Flushmount Casing
	0-2	1, 3, 5, 7	50	ND		GM. Brown SILTY fine to coarse GRAVEL, moist.			
	2-4	9, 11, 20, 24	50	ND		GW. Gray brown fine to coarse GRAVEL and fine SAND, dry			
	4-6	31, 43, 50/4"	60	ND		GW. Gray brown fine to coarse GRAVEL, dry.			
	6-8	12, 22, 21, 22	75	ND		GW. Gray brown fine to coarse GRAVEL, some fine to coarse sand, dry.			
	8-10	19, 25, 28, 33	75	ND		GW. Gray brown fine to coarse GRAVEL, some fine sand, dry.			2" Sch. 40 PVC Riser: 17'-0.5'
	10-12	50/4"	50	ND					
	12-14	6, 8, 5, 5	75	ND		SP. Gray brown fine SAND, trace fine gravel, dry.			
	14-16	4, 5, 5, 6	75	ND					Bentonite: 13'-15'
	16-18	50/5"	50	ND		SP. Gray brown fine SAND, some coarse gravel, dry.			
	18-20	3, 2, 2, 3	50	ND		SP. Gray brown fine SAND, some fine rounded gravel and coarse sand, dry.			
	20-22	5, 2, 3, 3	25	ND		Becomes wet at 19'.			#0 (Ricci Bros.) Sand: 27'-15'
	22-24	1, 3, 5, 5	50	ND					
-25									

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

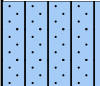


BORING NO. : MW-07-08

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30		24-26	7, 5, 5, 5	50	ND	SM. Brown SILTY fine SAND, wet.		10 slot, 2" Sch. 40 PVC Screen: 27'-17'
		26-28	2, 3, 6, 7	75	ND	ML. Brown SILT, wet.		
						End of boring at 28'. Sampled to 28' augered to 27'.		
-35								
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

BORING NO. : MW-07-09

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 1

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 784711.92403 EASTING: 1008598.10207

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 853.33

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/11/08

3/11/08

13:00

16' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/11/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

*Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0

-5

-10

-15

-20

-25

Samples only collected to confirm depth of saturated conditions, see GS-22 for additional lithologic information.

ML. Gray CLAYEY SILT, some fine to coarse gravel, moist.

GM. Gray SILTY GRAVEL, some fine to coarse sand, wet.

SW. Gray brown fine to coarse SAND, trace fine to coarse gravel, wet.

GP. Gray brown fine GRAVEL, some fine to coarse sand, wet.

ML. Brown CLAYEY SILT, wet.

End of boring at 23'. Sampled to 23', augered to 22'.

8" Flushmount  
Casing

2" Sch. 40 PVC  
Riser: 9'-0.5'

Bentonite: 7'-5'

#0 (Ricci Bros.)  
Sand: 22'-7'

10 slot, 2" Sch.  
40 PVC Screen:  
22'-9'

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

See nearby GS-22 boring log for additional lithologic information.

BORING NO. : MW-07-09

BORING NO. : MW-07-10

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785289.03552 EASTING: 1008837.58388

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 856.88

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/12/08

3/12/08

11:00

17.8' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/12/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Bunn*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0						Samples only collected to confirm depth of saturated conditions, see GS-24 for additional lithologic information.			8" Flushmount Casing
-5									2" Sch. 40 PVC Riser: 15'-0.5'
-10									Bentonite: 13'-11'
-15									#0 (Ricci Bros.) Sand: 25'-13'
-20		16-18	1, 2, 1, 3	100	ND	ML. Gray CLAYEY SILT, trace organics (roots), very fine sand, very moist.			
		18-20	2, 1, 3, 7	100	ND				
-25		20-22	14, 20, 12, 10	5	ND	GM. Brown SILTY GRAVEL, some medium to coarse sand, wet.			10 slot, 2" Sch. 40 PVC Screen: 25'-15'
		22-24	5, 3, 3, 3	20	ND	SP. Brown coarse SAND, some fine gravel and medium sand, wet.			
						ML. Brown very CLAYEY SILT, dilatant, wet.			

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

See nearby GS-24 boring log for additional lithologic information.

BORING NO. : MW-07-10

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
		24-26	5, 3, 6, 7	50	ND			
						End of boring at 26'. Sampled to 26', augered to 25'.		
-30								
-35								
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

See nearby GS-24 boring log for additional lithologic information.

BORING NO. : MW-07-11

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 785744.55109 EASTING: 1009121.43733

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 857.57

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/19/08

3/20/08

8:00

14.5' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/19/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY: *Tim Burren*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0						ML. Brown CLAYEY SILT, some coarse sand and fine gravel, trace cobble, moist.			8" Flushmount Casing
		0-2	1, 4, 8, 9	25	ND				
		2-4	15, 10, 7, 6	0	ND				
-5		4-6	5, 4, 2, 2	30	ND				
		6-8	50/1"	0	ND				
		8-10	4, 2, 2, 2	60	ND	ML. Light gray brown CLAYEY SILT, trace fine gravel and coarse sand, very moist.			2" Sch. 40 PVC Riser: 13'-0.5'
-10		10-12	11, 10, 9, 6	5	ND	GM. Brown, SILTY fine to coarse GRAVEL, wet.			Bentonite: 9'-11'
		12-14	13, 17, 7, 7	20	ND	CL. Gray SILTY CLAY, some fine gravel, moist			
-15		14-16	4, 4, 3, 3	75	ND	CL. Gray brown SILTY CLAY, moist with occasional wet siltier zones.			
		16-18	7, 4, 2, 3	75	ND	SM. Light brown SILTY very fine SAND, trace coarse sand and fine gravel, wet. Occasional 2" thick silty clay zones.			
-20		18-20	8, 8, 7, 7	80	ND	ML. Light gray brown SILT, trace fine to coarse gravel, wet.			
		20-22	12, 11, 11, 12	50	ND	GM. Brown SILTY fine to coarse GRAVEL, some fine to coarse sand, wet			#0 (Ricci Bros.) Sand: 28'-11'
		22-24	6, 18, 16, 15	60	ND	GM. Gray brown SILTY fine to coarse GRAVEL, some fine to coarse sand, wet.			
-25						SP. Gray brown fine SAND, trace coarse gravel and coarse sand, wet.			

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

BORING NO. : MW-07-11

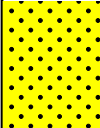
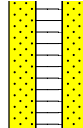
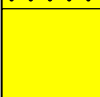


PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30		24-26	5, 3, 3, 2	50	ND			10 slot, 2" Sch. 40 PVC Screen: 28'-13'
		26-28	3, 7, 11, 13	0	ND			
		28-30	7, 6, 7, 8	75	ND	ML. Brown dilatant SILT, wet.		
-35						End of boring at 30'. Sampled to 30' augered to 28'.		
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

BORING NO. : MW-28

PROJECT/PROJECT LOCATION: Hillcrest Area Site

SHEET: 1 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

BORING CONTRACTOR: Nature's Way Environmental, Inc.

NORTHING: 783673.1878 EASTING: 1009923.47349

GROUNDWATER:

CAS.

SAMPLER

CORE

TUBE

GROUND ELEVATION: 901.5

DATE

TIME

LEVEL

TYPE

TYPE

HSA

Split Spoon

DATE STARTED: 3/13/08

3/13/08

14:00

18.0' bgs

Open hole

DIA.

4 1/4"

2"

DATE FINISHED: 3/13/08

WT.

140 lbs.

DRILLER: Steve Gingrich

FALL

30"

GEOLOGIST: R. Murphy

\* POCKET PENETROMETER READING

REVIEWED BY:

*Tim Burren*

DEPTH  
FEET

STRATA

SAMPLE  
DEPTH

BLOW  
COUNTS

RECOVERY  
(%)

PID  
(ppm)

MATERIAL  
DESCRIPTION

WELL  
CONSTRUCTION

REMARKS

0						ML. Dark brown silty topsoil, trace gravel, moist.			8" Flushmount Casing
		0-2	2, 3, 2, 5	40	ND	ML. Brown SILT, some fine sand, gravel, trace clay, moist.			
		2-4	5, 3, 3, 7	5	ND	ML. Brown SILT, some fine gravel, moist.			
-5		4-6	4, 6, 5, 4	10	ND	GM. Brown SILTY GRAVEL, some coarse sand, trace cobble, dry with occasional damp zones.			
		6-8	9, 12, 10, 14	15	ND				
		8-10	10, 44, 19, 33	25	ND				2" Sch. 40 PVC Riser: 16'-0.5'
-10		10-12	28, 43, 50/5"	20	ND				
		12-14	7, 25, 22, 34	30	ND				
-15		14-16	5, 12, 23, 41	50	ND				Bentonite: 12'-14'
		16-18	50/5"	20	ND				
-20		18-20	6, 5, 7, 4	5	ND	GM. Brown SILTY coarse SAND and GRAVEL, wet.			
		20-22	4, 5, 5, 5	25	ND	GM. Brown SILTY fine to coarse GRAVEL, some coarse sand, wet.			#0 (Ricci Bros.) Sand: 31'-14'
-25		22-24	5, 8, 7, 6	25	ND	GW. Brown fine to coarse GRAVEL and coarse SAND, wet			

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.

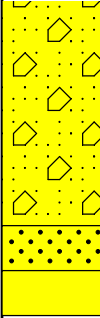
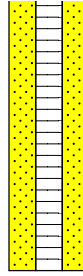
BORING NO. : MW-28

PROJECT: Hillcrest Area Site

SHEET: 2 OF 2

CLIENT: NYSDEC

JOB NO. : 11175412.00000

DEPTH FEET	STRATA	SAMPLE		RECOVERY (%)	PID DIRECT/ HEAD- SPACE	MATERIAL DESCRIPTION	WELL CONSTRUCTION	REMARKS
		DEPTH	BLOW COUNTS					
-30		24-26	8, 7, 8, 4	25	ND	SP. Brown fine SAND, some coarse sand and fine gravel, wet. ML. Brown SILT, wet.		10 slot, 2" Sch. 40 PVC Screen: 31'-16'
		26-28	4, 5, 4, 5	0	ND			
		28-30	3, 4, 4, 8	25	ND			
		30-32	7, 15, 11, 9	50	ND			
-35						End of boring at 32'. Sampled to 32', augered to 31'.		
-40								
-45								
-50								
-55								

COMMENTS: Boring advanced with a truck mounted Mobile B-57 rig.