

OBSERVATION WELL
INSTALLATION REPORTWell No.
B-129-MW
Boring No.
B-129-MW

PROJECT	Tioga Avenue Phase II	H&A FILE NO.	33123-005
LOCATION	Tioga Avenue Corning, New York	PROJECT MGR.	E. Hynes/B. Mahoney
CLIENT	Corning Property Mgmt. Corp.	FIELD REP.	B. Zinni
CONTRACTOR	Nothnagle Drilling	DATE INSTALLED	9/13/2007
DRILLER	K. Busch	WATER LEVEL	24.09

Ground El.	_____ ft	Location	_____	☐ Guard Pipe
El. Datum	_____			☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL																	
	CONCRETE	Type of protective cover/lock	Padlock															
		Height/Depth of top of guard pipe/roadway box above ground surface	+3 ft															
		Height/Depth of top of riser pipe above ground surface	+2.9 ft															
		Type of protective casing:	Steel box with flip top															
		Length	~10 ft															
		Inside Diameter	~4 in															
		Depth of bottom of guard roadway box	~4 ft															
		<table border="1"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>0</td> <td>12.6</td> </tr> <tr> <td>Bentonite Seal</td> <td>18.6</td> <td>4.6</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0	12.6	Bentonite Seal	18.6	4.6						
Type of Seals	Top of Seal (ft)	Thickness (ft)																
Concrete	0	12.6																
Bentonite Seal	18.6	4.6																
	12.6 BENTONITE	Type of riser pipe:	PVC															
		Inside diameter of riser pipe	2 in															
		Type of backfill around riser	Bentonite															
		Diameter of borehole	~5 in															
	17 QUARTZ SAND	Depth to top of well screen	19 ft															
		Type of screen	PVC															
		Screen gauge or size of openings	in															
		Diameter of screen	2 in															
		Type of backfill around screen	Quartz Sand															
		Depth of bottom of well screen	29 ft															
		Bottom of Silt trap	- ft															
		Depth of bottom of borehole	29 ft															

(Numbers refer to depth from ground surface in feet)

(Not to Scale)

21.9	ft	+	10	ft	+	-	ft	=	31.9	ft	
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)			Pay length		

COMMENTS:

OBSERVATION WELL
INSTALLATION REPORTWell No.
B-143-MW
Boring No.
B-143-MW

PROJECT	Tioga Avenue Phase II	H&A FILE NO.	33123-005
LOCATION	Tioga Avenue Corning, New York	PROJECT MGR.	E. Hynes/B. Mahoney
CLIENT	Corning Property Mgmt. Corp.	FIELD REP.	B. Zinni
CONTRACTOR	Nothnagle Drilling	DATE INSTALLED	9/19/2007
DRILLER	K. Busch	WATER LEVEL	23

Ground El.	_____ ft	Location	NE corner-old R&R	☐ Guard Pipe
El. Datum	_____			☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		
		Type of protective cover/lock	Padlock Well Cap
		Height/Depth of top of guard pipe/roadway box above ground surface	0 ft
		Height/Depth of top of riser pipe above/below ground surface	_____ ft
	GROUT	Type of protective casing:	Roadway box
		Length	1 ft
		Inside Diameter	8 in
		Depth of bottom of guard roadway box	1 ft
	12.4	Type of Seals	Top of Seal (ft)
		Concrete	_____
		Bentonite Seal	12.4
			Thickness (ft)
			2.6
	BENTONITE	Type of riser pipe:	PVC
		Inside diameter of riser pipe	2 in
		Type of backfill around riser	Sand 3, Chips
	15	Diameter of borehole	4 in
		Depth to top of well screen	18 ft
	QUARTZ SAND	Type of screen	PVC
		Screen gauge or size of openings	in
		Diameter of screen	2 in
		Type of backfill around screen	Quartz Sand
		Depth of bottom of well screen	28 ft
		Bottom of Silt trap	28 ft
		Depth of bottom of borehole	28 ft
28	28		
(Bottom of Exploration)		(Not to Scale)	
(Numbers refer to depth from ground surface in feet)			

ft	+	10	ft	+	-	ft	=	ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length		

COMMENTS:

OBSERVATION WELL
INSTALLATION REPORTWell No.
B-144-MW
Boring No.
B-144-MW

PROJECT	Tioga Avenue Phase II	H&A FILE NO.	33123-005
LOCATION	Tioga Avenue Corning, New York	PROJECT MGR.	E. Hynes/B. Mahoney
CLIENT	Corning Property Mgmt. Corp.	FIELD REP.	B. Zinni
CONTRACTOR	Nothnagle Drilling	DATE INSTALLED	9/20/2007
DRILLER	K. Busch	WATER LEVEL	22.3'

Ground El. _____ ft
El. Datum _____

Location _____

☐ Guard Pipe
☒ Roadway Box
SOIL/ROCK
CONDITIONSBOREHOLE
BACKFILL

Type of protective cover/lock

Padlock Well Cap

Height/Depth of top of guard pipe/roadway box
above ground surface

0 ft

Height/Depth of top of riser pipe
above/below ground surface

ft

Type of protective casing:

Roadway box

Length

1 ft

Inside Diameter

8 in

Depth of bottom of guard roadway box

1 ft

Type of Seals

Top of Seal (ft)

Thickness (ft)

Concrete

~3

9

Bentonite Seal

12

3.5

Type of riser pipe:

PVC

Inside diameter of riser pipe

2 in

Type of backfill around riser

Sand 2.5, Chips 2, Grout

Diameter of borehole

6 in

Depth to top of well screen

18 ft

Type of screen

PVC

Screen gauge or size of openings

in

Diameter of screen

2 in

Type of backfill around screen

Quartz Sand

Depth of bottom of well screen

28 ft

Bottom of Silt trap

ft

Depth of bottom of borehole

28 ft

28 28

(Bottom of Exploration)

(Numbers refer to depth from ground surface in feet)

(Not to Scale)

ft	+	10	ft	+	-	ft	=	ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length		

COMMENTS:

OBSERVATION WELL INSTALLATION REPORT

Well No.
B-145-MW

Boring No.
B-145-MW

PROJECT	Tioga Avenue Phase II	H&A FILE NO.	33123-005
LOCATION	Tioga Avenue Corning, New York	PROJECT MGR.	E. Hynes/B. Mahoney
CLIENT	Corning Property Mgmt. Corp.	FIELD REP.	B. Zinni
CONTRACTOR	Nothnagle Drilling	DATE INSTALLED	9/20/2007
DRILLER	K. Busch	WATER LEVEL	22.5'

Ground El. _____ ft	Location _____	☐ Guard Pipe ☒ Roadway Box
El. Datum _____		

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Diagram & Details															
	GROUT	Type of protective cover/lock: <u>Padlock Roadbox</u> Height/Depth of top of guard pipe/roadway box above ground surface: <u>0</u> ft Height/Depth of top of riser pipe above/below ground surface: _____ ft Type of protective casing: <u>Roadbox</u> Length: <u>1</u> ft Inside Diameter: <u>8</u> in Depth of bottom of guard roadway box: <u>1</u> ft <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>~3</td> <td>8.9</td> </tr> <tr> <td>Bentonite Seal</td> <td>11.9</td> <td>3.5</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	~3	8.9	Bentonite Seal	11.9	3.5						
Type of Seals	Top of Seal (ft)	Thickness (ft)															
Concrete	~3	8.9															
Bentonite Seal	11.9	3.5															
	11.9 BENTONITE	Type of riser pipe: <u>PVC</u> Inside diameter of riser pipe: <u>2</u> in Type of backfill around riser: <u>Sand 2.6</u> Diameter of borehole: <u>6</u> in Depth to top of well screen: <u>18</u> ft															
	15.4 QUARTZ SAND	Type of screen: <u>PVC</u> Screen gauge or size of openings: <u>~0.1</u> in Diameter of screen: <u>2</u> in Type of backfill around screen: <u>Quartz Sand</u> Depth of bottom of well screen: <u>28</u> ft Bottom of Silt trap: <u>-</u> ft Depth of bottom of borehole: <u>28</u> ft															

28.0 (Bottom of Exploration)

(Numbers refer to depth from ground surface in feet)

(Not to Scale)

28.0

Riser Pay Length (L1) _____ ft	+	Length of screen (L2) <u>10</u> ft	+	Length of silt trap (L3) <u>0</u> ft	=	Pay length _____ ft
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COMMENTS: _____

OBSERVATION WELL
INSTALLATION REPORTWell No.
B-146-MWBoring No.
B-146-MW

PROJECT Tioga Avenue Phase II

LOCATION Tioga Avenue Corning, New York

CLIENT Corning Property Mgmt. Corp.

CONTRACTOR Nothnagle Drilling

DRILLER K. Busch

H&A FILE NO. 33123-005

PROJECT MGR. E. Hynes/B. Mahoney

FIELD REP. B. Zinni

DATE INSTALLED 9/21/2007

WATER LEVEL ~10.3

Ground El. _____ ft

Location _____

El. Datum _____

☐ Guard Pipe☒ Roadway BoxSOIL/ROCK
CONDITIONSBOREHOLE
BACKFILL

GROUT

9

BENTONITE

12.5

QUARTZ
SAND

26

26

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

Type of protective cover/lock

Padlock Well Cap

Height/Depth of top of guard pipe/roadway box
above ground surface

0 ft

Height/Depth of top of riser pipe
above/below ground surface

-0.5 ft

Type of protective casing:

Roadway box

Length

1 ft

Inside Diameter

8 in

Depth of bottom of guard roadway box

1 ft

Type of Seals

Top of Seal (ft)

Thickness (ft)

Concrete

Bentonite Seal

9

3.5

Type of riser pipe:

PVC

Inside diameter of riser pipe

2 in

Type of backfill around riser

Sand 3.5, Chips 3.5, Grout

Diameter of borehole

~6 in

Depth to top of well screen

16 ft

Type of screen

PVC

Screen gauge or size of openings

~0.1 in

Diameter of screen

2 in

Type of backfill around screen

Quartz Sand

Depth of bottom of well screen

26 ft

Bottom of Silt trap

- ft

Depth of bottom of borehole

26 ft

L1

L2

L3

(Not to Scale)

15.5 ft

10 ft

-

25.5 ft

Riser Pay Length (L1)

Length of screen (L2)

Length of silt trap (L3)

Pay length

COMMENTS:

OBSERVATION WELL
INSTALLATION REPORTWell No.
B-147-MW
Boring No.
B-147-MW

PROJECT	Tioga Avenue Phase II	H&A FILE NO.	33123-005
LOCATION	Tioga Avenue Corning, New York	PROJECT MGR.	E. Hynes/B. Mahoney
CLIENT	Corning Property Mgmt. Corp.	FIELD REP.	B. Zinni
CONTRACTOR	Nothnagle Drilling	DATE INSTALLED	9/21/2007
DRILLER	K. Busch	WATER LEVEL	1/19/1900

Ground El. _____ ft	Location _____	☐ Guard Pipe
El. Datum _____		☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		
		Type of protective cover/lock	Padlock Well Cap
		Height/Depth of top of guard pipe/roadway box above ground surface	0 ft
		Height/Depth of top of riser pipe above/below ground surface	-0.5 ft
		Type of protective casing:	Roadway box
		Length	1 ft
		Inside Diameter	8 in
		Depth of bottom of guard roadway box	1 ft
	9.5	Type of Seals	Top of Seal (ft)
		Concrete	
		Bentonite Seal	9.5
			Thickness (ft)
			3.6
	BENTONITE	Type of riser pipe:	PVC
		Inside diameter of riser pipe	2 in
		Type of backfill around riser	Sand 3.1, Chips 3.6, Bentonite, Grout
	12.9	Diameter of borehole	~6 in
		Depth to top of well screen	16 ft
		Type of screen	PVC
		Screen gauge or size of openings	~0.1 in
		Diameter of screen	2 in
		Type of backfill around screen	Quartz Sand
	QUARTZ SAND	Depth of bottom of well screen	26 ft
		Bottom of Silt trap	- ft
		Depth of bottom of borehole	26 ft
26	26		
(Bottom of Exploration)		(Not to Scale)	
(Numbers refer to depth from ground surface in feet)			

15.5	ft	+	10	ft	+	-	ft	=	25.5	ft
Riser Pay Length (L1)			Length of screen (L2)			Length of silt trap (L3)			Pay length	

COMMENTS:

GEOPROBE EXPLORATION REPORT

Boring No. B-100

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 1
Start September 10, 2007
Finish September 10, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand				Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 36	0.0 4.0	NO WELL INSTALLED	1.0	SW	Black ash, well-graded SAND (SW), mps=0.1 ft., no structure, no odor, dry.	PID = 0.0 ppm	5	5	10	20	55	5				
2					SM	-FILL- Black ash, silty SAND (SM), mps=0.5 in., no odor, dry, 10% coal pieces.	PID = 0.0 ppm			5	5	60	30					
4					3.0	SP-SM	Brown ash, poorly-graded SAND with silt (SP-SM), mps=1 in., no odor, dry.	PID = 0.0 ppm		5	10	10	65	10				
6		G2 30	4.0 8.0		5.0	SP-SM	Brown, poorly-graded SAND with silt (SP-SM), mps=0.5 in., no odor, moist.	PID = 0.0 ppm			5	50	40	5				
8					8.0	SP-SM	Orange-brown, poorly-graded SAND with silt (SP-SM), mps=0.25 in., no odor, moist.	PID = 0.0 ppm				40	50	10				
10		G3 30	8.0 12.0		10.0	SW	Brown, well-graded SAND with gravel (SW), mps = > 1.75 in., no odor, moist.	PID = 0.0 ppm	15	10	15	15	30	15				
12					12.0		Bottom of exploration at 12.0 ft.											

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:	Water
			Bottom of Casing	
			Bottom of Hole	

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (lin. ft.) 12
Rock Cored (lin. ft.) -
Samples 3G

Boring No. B-100

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-101

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 10, 2007
 Finish September 10, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)		Gravel		Sand			Field Test				
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 10	0.0 4.0	NO WELL INSTALLED		SW-SM	Black, well-graded SAND with silt (SW-SM), mps = 1.0 in., no odor, moist, trace brick, coal, and glass. -FILL-	PID = 0.0 ppm	5	5	10	20	30	30				
2																		
4		G2 36	4.0 8.0		4.0	SW-SM	Dark brown ash, well-graded SAND with silt (SW-SM), mps = 1.0 in., no odor, moist, trace brick and coal. -FILL-	PID = 0.0 ppm	5	10	15	20	40	10				
6																		
8		G3 30	8.0 12.0		8.0		Black, coal/ash 55%, mps = 1.0 in., strong petroleum odor. -FILL-	PID = 0.0 ppm		5	5	10	60	20				
10					10.0	SW	Light brown, well-graded SAND with gravel, mps = 1.0 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	20	15	25	25	10	5				
12					12.0		Bottom of exploration at 12.0 ft.											

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:	Water
			Bottom of Casing	
			Bottom of Hole	

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

 Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-101

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-102

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 1
Start September 10, 2007
Finish September 10, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 36	0.0 4.0	NO WELL INSTALLED		SW	Black ash, well-graded SAND (SW), mps=1.0 in., slight odor, dry. -FILL-	PID = 10.7 ppm	5	25	40	25	5				
2					3.0	SP	Brown, poorly-graded SAND (SP), mps=0.25 in., no odor, dry. -ALLUVIUM-	PID = 0.0 ppm			10	85	5				
4		G2 36	4.0 8.0														
6																	
8		G3 36	8.0 12.0		7.6	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.25 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	5	15	25	35	15	5			
10																	
12					12.0		Bottom of exploration at 12.0 ft.										

NO WELL INSTALLED

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.) 12
Rock Cored (lin. ft.) -
Samples 3G

Boring No. B-102

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-103

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 10, 2007
 Finish September 10, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel	Sand					Field Test						
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0		G1 24	0.0 4.0	NO WELL INSTALLED		SW	Gray-brown, well-graded SAND with gravel (SW), mps = > 1.75 in., no odor, dry. -FILL-	PID = 0.0 ppm	15	15	25	30	10	5						
2																				
4		G2 24	4.0 8.0			SW	Gray-brown, well-graded SAND with gravel (SW), mps = > 1.75 in., no odor, dry. -FILL-	PID = 0.0 ppm	15	15	25	30	10	5						
6					6.0	SM	Orange, silty SAND (SM), mps=1.0 in., no odor, moist, trace coal. -FILL-	PID = 0.0 ppm	5	5	15	20	35	20						
8		G3 44	8.0 12.0		8.6	SW	Brown, well-graded SAND with gravel (SW), mps = > 1.75 in., no odor, dry, lenses of moisture. -ALLUVIUM-	PID = 0.7 ppm PID = 3.1 ppm	20	15	15	30	15	5						
10																				
12		G4 40	12.0 16.0			SW	Brown, well-graded SAND with gravel (SW), mps = 1.75 in., no odor, dry, lenses of moisture. -ALLUVIUM-	PID = 2.7 ppm	20	15	15	30	15	5						
14								PID = 0.0 ppm												
16					16.0		Bottom of exploration at 16.0 ft.													

Water Level Data

Sample Identification

Well Diagram

Summary

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Borehole Diagram					Summary																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			Bottom of Casing	Bottom of Hole	Water													Overburden (lin. ft.)	16	Rock Cored (lin. ft.)	-	Samples	4G																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Boring No. B-103

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Toughness: L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-104

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	PID = 0.0 ppm	Gravel		Sand		Fines		Field Test			
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 24	0.0 4.0	NO WELL INSTALLED		SP	Brown, poorly-graded SAND with gravel (SP), mps=1.5 in., no structure, no odor, moist. -FILL-		5	15	25	40	10	5				
2																		
4		G2 24	4.0 8.0		5.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.5 in., no structure, no odor, moist. -FILL-	PID = 0.0 ppm	5	15	25	40	10	5				
6					5.2	SW	2.0 in. layer black ash. -FILL- Brown, well-graded SAND with gravel (SW), mps=1.5 in., no odor, wet. -ALLUVIUM-	PID = 0.0 ppm	5	15	20	30	25	5				
8		G3 24	8.0 12.0			SW	Brown, well-graded SAND with gravel (SW), mps=1.5 in., no odor, wet. -ALLUVIUM-	PID = 0.0 ppm	5	15	20	30	25	5				
10																		
12					12.0		Bottom of exploration at 12.0 ft.											

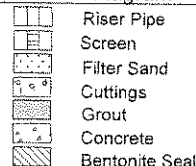
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram



Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-104

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-105

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 16	0.0 4.0	NO WELL INSTALLED			Black ash, poorly-graded silty SAND with gravel (SP-SM), mps = 1.75 in., no odor, moist, 10% coal pieces. -FILL-	PID = 0.4 ppm	5	10	10	10	45	10				
2																		
4		G2 0	4.0 8.0		4.0		No recovery.											
6																		
8		G3 40	8.0 12.0		8.0		Black ash, poorly-graded silty SAND with gravel (SP-SM), mps = 1.75 in., no odor, moist, 10% coal pieces. -FILL-	PID = 0.0 ppm	5	10	10	10	45	10				
					8.5				5	5	15	15	55	5				
10					9.9		Brown-black, poorly-graded SAND (SP), mps = 1.25 in., no odor, moist, some coal pieces. -FILL-	PID = 0.0 ppm	10	15	20	25	25	5				
					10.0		1 in. black ash. -FILL-											
12					12.0		Brown, well-graded SAND with gravel (SW), mps = 1.5 in., no odor, moist. -ALLUVIUM- Bottom of exploration at 12.0 ft.											

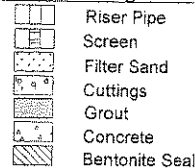
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:	
			Bottom of Casing	Bottom of Hole
			Water	

Sample Identification

- O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram



Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-105

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-106

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 1
Start September 11, 2007
Finish September 11, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 24	0.0 4.0	NO WELL INSTALLED	0.6	SW	-ASPHALT- Dark brown, well-graded SAND with gravel (SW), mps=1.0 in., no odor, moist, trace brick, coal, and glass. -FILL-	PID = 0.0 ppm	5	10	25	30	25	5				
2					3.6	SP	Dark brown, poorly-graded SAND with gravel (SP), mps=1.0 in., no odor, moist, trace coal, wet at 8.0 ft. -FILL-	PID = 0.0 ppm	5	10	15	45	20	5				
4		G2 24	4.0 8.0		8.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.5 in., no odor, wet. -ALLUVIUM-	PID = 0.0 ppm	10	15	20	35	15	5				
6																		
8		G3 36	8.0 12.0		12.0		Bottom of exploration at 12.0 ft.											
10																		
12																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram



Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (lin. ft.) 12
Rock Cored (lin. ft.) -
Samples 3G

Boring No. B-106

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-107

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 20	0.0 4.0	NO WELL INSTALLED		SP	Dark brown, poorly-graded SAND with gravel (SP), mps=1.0 in., no odor, moist, 5% coal pieces. -FILL-	PID = 0.0 ppm	5	10	10	10	50	15				
2																		
4		G2 12	4.0 8.0		SP	Dark brown, poorly-graded SAND with gravel (SP), mps=1.0 in., no odor, moist, 5% coal pieces. -FILL-	PID = 0.0 ppm	5	10	10	10	50	15					
6																		
8		G3 24	8.0 12.0		9.0	SW	Brown, well-graded SAND with gravel (SW), mps=1.25 in., no odor, wet. -ALLUVIUM-	PID = 0.0 ppm	5	10	25	30	25	5				
10																		
12					12.0		Bottom of exploration at 12.0 ft.											

NO WELL INSTALLED

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-107

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-108

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel Sand Field Test									
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 36	0.0 4.0	NO WELL INSTALLED		SP-SM	Black ash, poorly-graded SAND with silt (SP-SM), mps=0.1 in., no odor, dry. 50% coal pieces. -FILL-					10	30	10			
2																	
4		G2 40	4.0 8.0														
6					6.0	SP-SM	Orange-brown, poorly-graded SAND with silt (SP-SM), mps=0.1 in., no odor, moist. -ALLUVIUM-				60	40					
8		G3 40	8.0 12.0														
10					10.0	SW	Brown, well-graded SAND (SW), mps=1.25 in., no odor, wet. -ALLUVIUM-	10	15	20	25	25	5				
12					12.0		Bottom of exploration at 12.0 ft.										

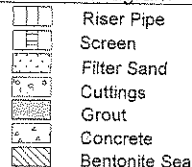
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram



Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-108

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-109

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel						Sand				Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0		G1 36	0.0 4.0	NO WELL INSTALLED		SP	Gray, poorly-graded SAND (SP), mps=0.25 in., no odor, moist, trace of ash. -FILL-			15	50	30	5								
2					2.0	SP	Black ash, poorly-graded SAND (SP), mps = <0.1 in., no odor, moist, 20% ash pieces. -FILL-					80									
4		G2 44	4.0 8.0		3.6	SP	Orange, poorly-graded SAND (SP), mps = <0.1 in., no odor, moist, 20% ash. -FILL-					80									
6					5.0	SP	Orange, poorly-graded SAND (SP), mps=0.25 in., no odor, moist. -ALLUVIUM-			5	15	60	20								
8		G3 36	8.0 12.0		6.0	SP	Orange, poorly-graded SAND (SP), mps = 1.0 in., no odor, dry. -ALLUVIUM-	5	5	10	30	25	25								
10						SP	Orange, poorly-graded SAND (SP), mps = 1.0 in., no odor, dry. -ALLUVIUM-	5	5	10	30	25	25								
12					12.0		Bottom of exploration at 12.0 ft.														

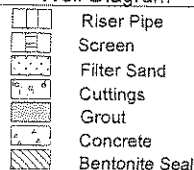
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram



Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-109

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Toughness: L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-110

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

 File No. 33123-005
 Sheet No. 1 of 1
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

 Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 36	0.0 4.0	NO WELL INSTALLED		SM	Black ash, silty SAND (SM), mps=1.0 in., no odor, dry, 25% coal pieces, glass and brick fragments. -FILL-	5	10	10	30	20					
2					3.0	SP	Dark orange, poorly-graded SAND (SP), mps 1.5 in., no odor, moist, 10% coal pieces. -FILL-				90						
4		G2 24	4.0 8.0		4.6	SP	Dark orange, poorly-graded SAND (SP), mps = <0.1 in., no odor, wet. -ALLUVIUM-				90	10					
6					7.0	SW	Dark orange, well-graded SAND with gravel (SW), mps=1.5 in., no odor, wet. -ALLUVIUM-	5	10	20	30	30	5				
8		G3 30	8.0 12.0			SW	Dark orange, well-graded SAND with gravel (SW), mps=1.5 in., no odor, wet. -ALLUVIUM-	5	10	20	30	30	5				
10					12.0		Bottom of exploration at 12.0 ft.										
12																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

 Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-110

 Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-111

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 1
Start September 11, 2007
Finish September 11, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0		G1 40	0.0 4.0	NO WELL INSTALLED	0.6	SW	-ASPHALT- Gray, well-graded SAND with gravel (SW), mps = 1.0 in., no odor, dry, glass pieces, 15% coal pieces.	PID = 0.0 ppm	5	10	25	25	15	5					
2			1.5		SW	-FILL- Black ash, well-graded SAND (SW), mps = 1.0 in., no odor, dry, 30% coal pieces.	PID = 0.0 ppm	5	5	30	20	5	5						
4		G2 36	4.0 8.0		SW	-FILL- Black ash, well-graded SAND (SW), mps = 1.0 in., no odor, dry, 30% coal pieces.	PID = 0.0 ppm	5	5	30	20	5	5						
6					6.0	SP	Orange-brown, poorly-graded SAND (SP), mps = 0.1 in., no odor, moist, trace coal pieces.				5	90	5						
8		G3 20	8.0 12.0		7.0	SP	-DISTURBED NATURAL SOIL- Orange-brown, poorly-graded SAND with gravel (SP), mps = 1.5 in., no odor, moist.		10	15	25	35	10	5					
10							-ALLUVIUM-												
12					12.0		Bottom of exploration at 12.0 ft.												

Water Level Data						Sample Identification		Well Diagram		Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon	G Geoprobe	 Riser Pipe  Screen  Filter Sand  Cuttings  Grout  Concrete  Bentonite Seal	Overburden (lin. ft.)	12
			Bottom of Casing	Bottom of Hole	Water							Rock Cored (lin. ft.)	-
												Samples	3G
												Boring No.	B-111
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None			Plasticity: N-Nonplastic, L-Low, M-Medium, H-High							
			Toughness: L-Low, M-Medium, H-High			Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High							
¹ SPT = Sampler blows per 6 in. ² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).													
Note: Soil identification based on visual-manual methods of the UCS as practiced by Halev & Aldrich, Inc.													

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-112

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagie Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 12	0.0 4.0	NO WELL INSTALLED		SM	Black ash, silty SAND (SM), mps = 1.0 in., no odor, dry, 30% coal pieces. -FILL-		5	5	20	15	25				
2																	
4		G2 24	4.0 8.0			SM	Black ash, silty SAND (SM), mps=1.0 in., no odor, dry, 30% coal pieces. -FILL-		5	5	20	15	25				
6																	
8		G3 24	8.0 12.0														
10					9.0	SP	Brown, poorly-graded SAND (SP), mps = 1.0 in., no odor, wet. -ALLUVIUM-		5	5	15	40	30	5			
12		G4 44	12.0 16.0		12.0	SW	Brown, well-graded SAND with gravel (SW), mps = 1.25 in., no odor, moist. -ALLUVIUM-		10	15	15	30	25	5			
14																	
16		G5 24	16.0 20.0														
18						SW	Brown, well-graded SAND with gravel (SW), mps = 1.25 in., no odor, moist. -ALLUVIUM-		10	15	15	30	25	5			
20																	

Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Overburden (lin. ft.)
			Bottom of Casing	Bottom of Hole	Water	Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon	Geoprobe	24
											Rock Cored (lin. ft.)
											-
											Samples
											6G
											Boring No. B-112
Field Tests:		Dilatancy: R-Rapid, S-Slow, N-None		Plasticity: N-Nonplastic, L-Low, M-Medium, H-High		Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					
		Toughness: L-Low, M-Medium, H-High									

¹ SPT = Sampler blows per 6 in. ² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-112

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Fines		Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20		G6 24	20.0 24.0			SW	Brown, well-graded SAND with gravel (SW), mps = 1.25 in., no odor, wet at 22.5 ft. -ALLUVIUM-	10	15	15	30	25	5				
22																	
24					24.0		Bottom of exploration at 24.0 ft.										

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-112

GEOPROBE EXPLORATION REPORT

Boring No. B-113

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 11, 2007
 Finish September 11, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures	
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe	
Inside Diameter (in.)	-	2	-	Bit Type: -	
Hammer Weight (lb.)	-	140	-	Drill Mud: -	
Hammer Fall (in.)	-	30	-	Casing: -	
				Hoist/Hammer: - -	

Elevation

Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness
0		G1 24	0.0 4.0	NO WELL INSTALLED		SP	Ash, poorly-graded SAND (SP), mps = 1.5 in., no odor, dry, 20% coal fragments, trace brick. -FILL-	5	5	10	25	30	5		
2															
4		G2 36	4.0 8.0		4.0	SP	Orange-brown, poorly-graded SAND (SP), mps = <0.1 in., no structure, no odor, moist. -ALLUVIUM-				100				
6															
8		G3 36	8.0 12.0	NO WELL INSTALLED	8.0	SP	Brown, poorly-graded SAND with gravel(SP), mps = 1.25 in., no odor, moist. -ALLUVIUM-	10	10	20	50	10			
10															
12					12.0		Bottom of exploration at 12.0 ft.								

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		Water
			Bottom of Casing	Bottom of Hole	

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

 Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-113

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Toughness: L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹ SPT = Sampler blows per 6 in.² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-115

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 12, 2007
 Finish September 12, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0		G1 10	0.0 4.0	NO WELL INSTALLED	0.8	SP	-ASPHALT- Gray, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, dry. -FILL-	PID = 0.0 ppm		40	30	20	10								
2																					
4		G2 4	4.0 8.0		4.0	SP	Dark gray, poorly-graded SAND (SP), mps=2.0 in., no odor, dry. -FILL-	PID = 0.0 ppm	5	10	30	45	10								
6																					
8		G3 36	8.0 12.0		8.0	SP	Mottled, black-brown, poorly-graded SAND (SP), mps=1.75 in., no odor, moist, 20% coal pieces. -FILL-	PID = 0.0 ppm	5	15	45	35									
10					9.0	SP	Brown, poorly-graded SAND (SP), no odor, moist. -ALLUVIUM-	PID = 0.0 ppm			5	90	5								
10					10.0	SP	Brown, poorly-graded SAND with gravel (SP), MPS=1.0 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	5	10	10	10	60	5							
12		G4 24	12.0 16.0				Grading coarser downward.	PID = 0.0 ppm													
14								PID = 0.0 ppm													
16		G5 40	16.0 20.0			16.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.25 in., no odor, wet. -ALLUVIUM-	PID = 0.0 ppm	10	15	10	50	10	5						
18							PID = 0.0 ppm														
20							PID = 0.0 ppm														

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 24
 Rock Cored (lin. ft.) -
 Samples 6G

Boring No. B-115

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹ SPT = Sampler blows per 6 in.

² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-115

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20		G6 30	20.0 24.0			SP	Gray, poorly-graded SAND with gravel (SP), mps = 1.5 in., slight odor, moist.										
22							PID = 0.0 ppm PID = 0.2 ppm PID = 3.0 ppm PID = 7.2 ppm PID = 14.5 ppm										
24					24.0		Wet at 23.0 ft., strong odor.	20	25	20	25	10					
							Bottom of exploration at 24.0 ft.										
							PID = 15.2 ppm										

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-115

GEOPROBE EXPLORATION REPORT

Boring No. B-116

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 2
Start September 12, 2007
Finish September 12, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 36	0.0 4.0	NO WELL INSTALLED	6.0	SP	Black ash, poorly-graded SAND (SP), mps=1.0 in., no odor, dry, 30% coal pieces. -FILL-	PID = 0.0 ppm	5	25	25	15						
2									PID = 0.0 ppm									
									PID = 0.0 ppm									
4		G2 36	4.0 8.0			SP	Black ash, poorly-graded SAND (SP), mps=1.0 in., no odor, dry, 30% coal pieces. -FILL-	PID = 0.3 ppm	5	25	25	15						
									PID = 3.5 ppm									
6								SP	Brown, poorly-graded SAND (SP), mps=0.25 in., strong petroleum odor, wet. -ALLUVIUM-	PID = 18 ppm			5	90	5			
									PID = 20 ppm									
8		G3 24	8.0 12.0			SP	Brown, poorly-graded SAND (SP), mps=0.25 in., strong petroleum odor, wet. -ALLUVIUM-	PID = 35 ppm				5	90	5				
									PID = 113 ppm									
10									PID = 85.8 ppm									
									PID = 68.1 ppm									
12		G4 36	12.0 16.0			SP	Brown, poorly-graded SAND (SP), mps=0.25 in., strong petroleum odor, wet. -ALLUVIUM-	PID = 44.4 ppm				5	90	5				
							PID = 38.6 ppm											
14					14.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., slight petroleum odor, moist. -ALLUVIUM-	PID = 33.2 ppm	10	15	25	30	15	5				
							PID = 31.1 ppm											
16		G5 36	16.0 20.0				PID = 5.4 ppm											
							PID = 11.2 ppm											
18							Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 4.3 ppm	10	15	25	30	15	5				
							PID = 0.3 ppm											
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (lin. ft.) 24
Rock Cored (lin. ft.) -
Samples 5G

Boring No. B-116

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-116

File No. 33123-005

Sheet No. 2 of 2

								Sheet No.		2		Gr		2			
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20		G6 36	20.0 24.0				PID = 2.1 ppm										
22					22.0		Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., strong petroleum odor, wet at 22.0 ft.	PID = 10.2 ppm									
24					24.0		Bottom of exploration at 24.0 ft.	PID = 6.1 ppm	10	15	25	30	15	5			

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-116

GEOPROBE EXPLORATION REPORT

Boring No. B-117

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

 File No. 33123-005
 Sheet No. 1 of 1
 Start September 12, 2007
 Finish September 12, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

 Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 36	0.0 4.0	NO WELL INSTALLED			-CRUSHED CONCRETE-											
2							-FILL-											
4		G2 30	4.0 8.0		3.0	SW	Black, well-graded SAND (SW), mps=1.0 in., no odor, dry, 20% coal pieces. -FILL-	PID = 0.0 ppm	5	25	25	20	5					
6					5.5	SP	Brown, poorly-graded SAND (SP), mps=0.25 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm			5	90	5					
8		G3 24	8.0 12.0		9.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.5 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	10	15	10	40	20	5				
10																		
12					12.0		Bottom of exploration at 12.0 ft.											

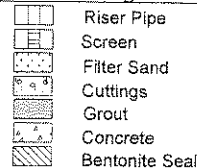
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram



Summary

 Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-117

 Field Tests: Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High
 Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹ SPT = Sampler blows per 6 in. ² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-118

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 1
Start September 12, 2007
Finish September 12, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	PID = 0.0 ppm	Gravel		Sand			Field Test				
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 20	0.0 4.0	NO WELL INSTALLED			-CRUSHED CONCRETE AND BRICK- -FILL-	PID = 0.0 ppm										
2																		
4		G2 12	4.0 8.0		4.0	SW	Black, ash fill, well-graded SAND (SW), mps=0.75 in., no odor, moist, 20% coal pieces, trace brick. -FILL-	PID = 0.0 ppm			25	35	15	5				
6																		
8		G3 10	8.0 12.0		7.5 8.0	SP SP	-DISTURBED NATURAL SOIL- Brown, poorly-graded SAND (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm PID = 0.0 ppm	5	5	10	15	60	5				
10																		
12					12.0		Bottom of exploration at 12.0 ft.											

Water Level Data						Sample Identification		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G		
			Bottom of Casing	Bottom of Hole	Water							
						O	Open End Rod		Riser Pipe		Overburden (lin. ft.)	12
						T	Thin Wall Tube		Screen		Rock Cored (lin. ft.)	-
						U	Undisturbed Sample		Filter Sand		Samples	2G
						S	Split Spoon		Cuttings			
						G	Geoprobe		Grout			
									Concrete			
									Bentonite Seal		Boring No.	B-118
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None				Plasticity: N-Nonplastic, L-Low, M-Medium, H-High					
			Toughness: L-Low, M-Medium, H-High				Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					
*SPT = Sampler blows per 6 in.			*Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).									
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.												

GEOPROBE EXPLORATION REPORT

Boring No. B-119

File No. 33123-005

Sheet No. 2 of 2

								Sheet No. 2 of 2											
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand				Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
20		G6 36	20.0 24.0			SP	Yellow-black/red, poorly-graded SAND with gravel (SP), mps = 1.25 IN., strong petroleum odor, dry. -ALLUVIUM- Wet at 23.0 ft. PID = 0.3 ppm PID = 0.0 ppm PID = 0.0 ppm PID = 0.0 ppm	10	10	10	25	40	5						
22																			
24					24.0		Bottom of exploration at 24.0 ft.												

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-119

GEOPROBE EXPLORATION REPORT

Boring No. B-120

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

 File No. 33123-005
 Sheet No. 1 of 1
 Start September 12, 2007
 Finish September 12, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

 Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 18	0.0 4.0	NO WELL INSTALLED			-CRUSHED PAVEMENT-										
2					1.5		-FILL- Black ash, poorly-graded SAND (SP), mps=1.0 in., no odor, moist, 20% coal pieces. -FILL-	PID = 0.0 ppm	5	5	30	35	5				
4		G2 24	4.0 8.0		4.0		Brown, poorly-graded SAND (SP), mps=0.1 in., no odor, moist, 30% ash pieces. -DISTURBED NATURAL SOIL-	PID = 0.0 ppm				60	10				
6					6.0		Gray, crushed stone, mps = > 1.75 in., -ALLUVIUM-	PID = 0.0 ppm	50	30	5	5	5	5			
8		G3 24	8.0 12.0		7.0		Brown, poorly-graded SAND (SP), mps=0.25 in., no odor, moist. -ALLUVIUM- Brown, poorly-graded SAND (SP), mps=0.25 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm PID = 0.0 ppm		5	5	85	5				
10					10.5		Brown, poorly-graded SAND with gravel (SP), mps=1.5 in., no odor, wet. -ALLUVIUM-	PID = 0.0 ppm	10	15	30	30	10	5			
12					12.0		Bottom of exploration at 12.0 ft.										

Water Level Data						Sample Identification	Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon G Geoprobe	 Riser Pipe  Screen  Filter Sand  Cuttings  Grout  Concrete  Bentonite Seal			
			Bottom of Casing	Bottom of Hole	Water					
									Overburden (lin. ft.)	12
									Rock Cored (lin. ft.)	-
									Samples	3G
Boring No.										B-120
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None			Plasticity: N-Nonplastic, L-Low, M-Medium, H-High				
			Toughness: L-Low, M-Medium, H-High			Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High				
SPT = Sampler blows per 6 in.			Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).							
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.										

GEOPROBE EXPLORATION REPORT

Boring No. B-121

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagie Drilling

File No. 33123-005
Sheet No. 1 of 2
Start September 12, 2007
Finish September 12, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 20	0.0 4.0	NO WELL INSTALLED		SP-SM	Black ash, poorly-graded SAND with silt (SP-SM), mps=0.5 in., no odor, dry, 40% coal pieces. -FILL-	PID = 0.0 ppm				30	20	10				
2																		
4		G2 20	4.0 8.0															
6					6.0	SP	3 in. crushed brick. -FILL-	PID = 0.0 ppm PID = 0.0 ppm										
6.3					6.3		Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-		5	15	20	40	15	5				
8		G3 40	8.0 12.0															
10																		
12		G4 24	12.0 16.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm		5	15	20	40	15	5			
14																		
16		0	16.0 20.0				No recovery	PID = 0.0 ppm										
18																		
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.) 24
Rock Cored (lin. ft.) -
Samples 5G

Boring No. B-121

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-121

File No. 33123-005

Sheet No. 2 of 2

								Sheet No. 2 of 2										
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
20		G5 30	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, moist. -ALLUVIUM- Wet at 23.0 ft.	PID = 0.0 ppm	5	15	20	40	15	5				
22																		
24					24.0		Bottom of exploration at 24.0 ft.											

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-121

GEOPROBE EXPLORATION REPORT

Boring No. B-122

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 12, 2007
 Finish September 12, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 40	0.0 4.0	NO WELL INSTALLED		SP	Black ash, poorly-graded SAND (SP), mps=0.75 in., no odor, dry, 40% coal pieces, trace brick. -FILL-	PID = 0.0 ppm	5	10	30	10	5					
2																		
4		G2 24	4.0 8.0		3.8	SP	Brown, poorly-graded SAND (SP), mps=0.1 in., no odor, dry, 20% coal pieces. -DISTURBED NATURAL SOIL-	PID = 0.0 ppm				80						
6					5.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75no odor, moist. -ALLUVIUM- coarsening	PID = 0.0 ppm	5	15	15	45	15	5				
8		G3 30	8.0 12.0				SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	5	20	25	35	10	5			
10																		
12					12.0		Bottom of exploration at 12.0 ft.											

NO WELL INSTALLED

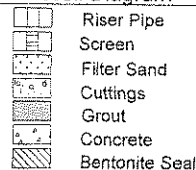
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram



Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-122

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-123

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

 File No. 33123-005
 Sheet No. 1 of 1
 Start September 12, 2007
 Finish September 12, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

 Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	PID	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Field Test % Fines Dilatancy Toughness Plasticity Strength
0		G1 36	0.0 4.0	NO WELL INSTALLED		SW	Black ash, well-graded SAND (SW), mps=0.25 in., no odor, dry, 40% coal pieces, trace brick. -FILL-	PID = 0.0 ppm		10 25 20 5	
2											
4		G2 36	4.0 8.0		3.9 4.0	SP- SM	-DISTURBED NATURAL SOIL- Brown, poorly-graded SAND with silt (SP-SM), mps=0.1 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm PID = 0.0 ppm		5 85 10	
6											
8		G3 24	8.0 12.0		7.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	10 15 30 25 15 5		
10						SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	10 15 30 25 15 5		
12					12.0		Bottom of exploration at 12.0 ft.				

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

 Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-123

Field Tests:

 Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

 Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.



GEOPROBE EXPLORATION REPORT

Boring No. B-124

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 2
Start September 13, 2007
Finish September 13, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Field Test			
										Dilatancy	Toughness	Plasticity	Strength
0		G1 24	0.0 4.0	NO WELL INSTALLED	3.7	SP	Brown, poorly-graded SAND (SP), mps = 1.5 in., no odor, moist, 35% coal ash. -FILL-						
2													
4		G2 24	4.0 8.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 2 in., no odor, moist. -ALLUVIUM-						
6													
8		G3 30	8.0 12.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 2 in., no odor, dry. -ALLUVIUM-						
10													
12		G4 36	12.0 16.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 2 in., no odor, dry. -ALLUVIUM-						
14													
16		G5 44	16.0 20.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 2 in., no odor, wet layers. -ALLUVIUM-						
18													
20													

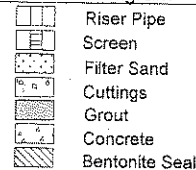
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram



Summary

Overburden (lin. ft.) 24
Rock Cored (lin. ft.) -
Samples 6G

Boring No. B-124

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-124

File No. 33123-005

Sheet No. 2 of 2

Sheet No. 2 of 2																		
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
20		G6 48	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=2in., no odor, wet layers. -ALLUVIUM-	PID = 2.2 ppm	10	15	25	30	15	5				
22																		
24					24.0		Bottom of exploration at 24.0 ft.											

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-124

GEOPROBE EXPLORATION REPORT

Boring No. B-125

File No. 33123-005

Sheet No. 2 of 2

								Sheet No. 2 of 2									
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20		G6 48	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., slight odor, moist. -ALLUVIUM-	5	15	25	35	15	5				
22							Wet at 23.5 ft.										
24					24.0		Bottom of exploration at 24.0 ft.										

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-125

GEOPROBE EXPLORATION REPORT

Boring No. B-126

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 13, 2007
 Finish September 13, 2007
 Driller K. Bush
 H&A Rep. B. Zimni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	PID	Gravel		Sand			Field Test				
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 6	0.0 4.0	NO WELL INSTALLED		SW	Brown, well-graded SAND (SW), mps=1.5 in., slight odor, moist, 20% coal pieces. -FILL-	PID = 0.0 ppm	5	25	25	20	5					
2																		
4		G2 36	4.0 8.0		4.0		Brown, poorly-graded SAND (SP), mps=0.5 in., slight odor, moist, 45% coal. -DISTURBED NATURAL SOIL-	PID = 0.0 ppm		5	15	30	5					
6					5.0	SP	Brown, poorly-graded SAND (SP), mps=0.25 in., slight odor, moist. -ALLUVIUM-	PID = 0.0 ppm			10	85	5					
8		G3 36	8.0 12.0		8.0	SP	Brown, poorly-graded SAND (SP), mps=0.25 in., slight odor, moist. -ALLUVIUM-	PID = 0.0 ppm			10	85	5					
10																		
12					11.0	SW	Brown, well-graded SAND with gravel (SW), mps=1.5 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	10	15	25	25	20	5				
					12.0		Bottom of exploration at 12.0 ft.											

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

-  Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-126

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Toughness: L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.



GEOPROBE EXPLORATION REPORT

Boring No. B-127

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 2
Start September 13, 2007
Finish September 13, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	PID	Gravel		Sand			Field Test						
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0		G1 36	0.0 4.0	NO WELL INSTALLED		SP-SM	Black, poorly-graded SAND with silt (SP-SM), mps=0.5 in., no odor, trace brick, dry, 30% coal pieces. -FILL-	PID = 0.0 ppm			5	25	30	10						
2					3.0	SP	Brown, poorly-graded SAND (SP), mps=0.1 in., no odor, dry, 15% coal pieces.	PID = 0.0 ppm				10	70	5						
4		G2 36	4.0 8.0		4.0	SP	-DISTURBED NATURAL SOIL- Brown, poorly-graded SAND (SP), mps=0.1 in., no odor, dry.	PID = 0.0 ppm				5	90	5						
6					5.0	SP	-ALLUVIUM- Brown, poorly-graded SAND with gravel (SP), mps=1.25 in., no odor, moist.	PID = 0.0 ppm	5	15	35	30	10	5						
8		G3 24	8.0 12.0		8.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.5 in., no odor, moist.	PID = 0.0 ppm	15	25	20	25	10	5						
10																				
12		G4 48	12.0 16.0		12.0	SP	Light brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, dry.	PID = 0.0 ppm	15	25	30	15	10	5						
14																				
16		G5 44	16.0 20.0			SP	Light brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, dry.	PID = 0.0 ppm	15	25	30	15	10	5						
18																				
20																				

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (lin. ft.) 24
Rock Cored (lin. ft.) -
Samples 6G

Boring No. B-127

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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GEOPROBE EXPLORATION REPORT

Boring No. B-127

File No. 33123-005

Sheet No. 2 of 2

								Sheet No. 2 of 2												
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand				Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
20		G6 40	20.0 24.0			SP	Gray, poorly-graded SAND with gravel (SP), mps= 1.25 in., slight odor, dry. -ALLUVIUM-	PID = 18.1 ppm	5	10	25	20	35	5						
22								PID = 46 ppm												
								PID = 101 ppm												
24					23.5	SP	Gray, poorly-graded SAND with gravel (SP), strong petroleum odor, wet.	PID = 93 ppm	5	10	25	20	35	5						
					24.0		Bottom of exploration at 24.0 ft.	PID = 143 ppm												

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-128

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 13, 2007
 Finish September 13, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 24	0.0 4.0	NO WELL INSTALLED		SP	Black, poorly-graded SAND (SP), mps = 1.5 in., no odor, dry, 40% ash pieces. -FILL-	PID = 0.8 ppm		5	5	20	25	5				
2					2.0	SP	Brown, poorly-graded SAND (SP), mps = 0.5 in., no odor, moist, 50% ash. -FILL-	PID = 8.9 ppm				5	40	5				
4		G2 36	4.0 8.0		4.0	SP	Brown, poorly-graded SAND (SP), mps = 0.25 in., no odor, moist. -ALLUVIUM-	PID = 8.4 ppm				10	85	5				
6							PID = 4.6 ppm											
8		G3 24	8.0 12.0		7.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = > 1.75 in., no odor, moist. -ALLUVIUM-	PID = 5.0 ppm	10	20	20	25	20	5				
							PID = 4.6 ppm											
							PID = 1.5 ppm											
10							PID = 15.3 ppm											
							PID = 1.5 ppm											
12		G4 48	12.0 16.0		12.0	SP	Brown, poorly-graded SAND (SP), mps = 1.75 in., no odor, moist. -ALLUVIUM-	PID = 1.7 ppm				5	90	5				
							PID = 6.3 ppm											
14				14.0	SP	Brown, poorly-graded SAND (SP), mps = 0.25 in., no odor, moist. -ALLUVIUM-	PID = 1.8 ppm	10	20	20	25	20	5					
						PID = 1.8 ppm												
16		G5 48	16.0 20.0		SP	Brown, poorly-graded SAND (SP), mps = > 1.75 in., no odor, moist. -ALLUVIUM-	PID = 1.7 ppm	10	20	20	25	20	5					
						PID = 1.8 ppm												
18						PID = 0.3 ppm												
20						PID = 1.0 ppm												

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram



- Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 22
 Rock Cored (lin. ft.) -
 Samples 6G

Boring No. B-128

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-129-MW

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 13, 2007
 Finish September 13, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Field Test			
										Dilatancy	Toughness	Plasticity	Strength
0		G1 24	0.0 4.0	NO WELL INSTALLED		SP	Black, poorly-graded SAND, mps=0.25 in., no odor, moist, 40% coal pieces, trace brick. -FILL-		5 30 20 5				
2							PID = 0.8 ppm						
3.0					3.0	SP	Brown, poorly-graded SAND (SP), mps=0.3 in., no odor, moist, 25% coal pieces. -DISTURBED NATURAL SOILS-		10 60 5				
4		G2 24	4.0 8.0				PID = 0.8 ppm						
5.0					5.0	SP	Brown, poorly-graded SAND (SP), mps=0.3 in., no odor, moist. -ALLUVIUM-		10 85 5				
6							PID = 1.0 ppm						
8		G3 24	8.0 12.0	NO WELL INSTALLED		SP	Brown, poorly-graded SAND (SP), mps=0.3 in., no odor, moist. -ALLUVIUM-		10 85 5				
10							PID = 0.8 ppm						
10.6					10.6	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.25 in., no odor, moist. -ALLUVIUM-	5 10 25 25 30 5					
12		G4 30	12.0 16.0				PID = 1.0 ppm						
14							PID = 0.8 ppm						
16		G5 36	16.0 20.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.25 in., no odor, dry. -ALLUVIUM-	5 10 25 25 30 5					
18							PID = 0.7 ppm						
20							PID = 0.7 ppm						
							PID = 0.5 ppm						
							PID = 0.0 ppm						
							PID = 0.0 ppm						
							PID = 0.0 ppm						
							PID = 0.0 ppm						

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

- O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

- Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 32
 Rock Cored (lin. ft.) -
 Samples 6G

Boring No. B-129-MW

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Toughness: L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹ SPT = Sampler blows per 6 in.² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-129-MW

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
20		G6 24	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.25 in., no odor, dry. -ALLUVIUM-	PID = 0.3 ppm	5	10	25	25	30	5					
22								PID = 32.2 ppm											
24		G7 34	24.0 28.0		23.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.25 in., strong petroleum odor, wet. -ALLUVIUM-	PID = 16 ppm	5	10	25	25	30	5					
26					24.0	SP	Gray, poorly-graded SAND with gravel (SP), mps=2 in., petroleum odor, wet. -ALLUVIUM-	PID = 2.2 ppm	5	25	25	25	15	5					
28		G8 104	28.0 32.0			SP	Gray, poorly-graded SAND with gravel (SP), mps=2 in., petroleum odor, wet. -ALLUVIUM-	PID = 2.11 ppm PID = 1.8 ppm PID = 1.0 ppm PID = 0.8 ppm											
30																			
32					32.0		Bottom of exploration at 32.0 ft.												

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-129-MW

GEOPROBE EXPLORATION REPORT

Boring No. B-130

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 14, 2007
 Finish September 14, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 24	0.0 4.0	NO WELL INSTALLED		SP	Black, poorly-graded SAND (SP), mps = 1.5 in., no odor, dry, 30% coal pieces, trace brick. -FILL-		5	30	15	15	5					
2					3.0	SP	Black-brown, poorly-graded SAND (SP), mps=1.5 in., no odor, moist, 10% coal pieces, trace brick. -FILL-		5	10	15	55	5					
4		G2 40	4.0 8.0		5.0	SP	Brown, poorly-graded SAND (SP), mps = <0.25 in. no odor, moist. -ALLUVIUM-				5	90	5					
6																		
8		G3 30	8.0 12.0		10.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=2 in. no odor, wet. -ALLUVIUM-		5	20	15	30	25	5				
10																		
12		G4 24	12.0 16.0															
14																		
16		G5 30	16.0 20.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=2 in. no odor, dry. -ALLUVIUM-		5	20	15	30	25	5				
18																		
20																		

Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod		Riser Pipe	Overburden (lin. ft.)	24	
			Bottom of Casing	Bottom of Hole	Water						T Thin Wall Tube
						U Undisturbed Sample		Filter Sand	Samples	6G	
						S Split Spoon		Cuttings	Boring No.	B-130	
						G Geoprobe		Grout			
								Concrete			
								Bentonite Seal			
Field Tests:			Dilatancy: R-Rapid, S-Slow, N-None			Plasticity: N-Nonplastic, L-Low, M-Medium, H-High					
			Toughness: L-Low, M-Medium, H-High			Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High					
¹ SPT = Sampler blows per 6 in.			² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).								
Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.											

GEOPROBE EXPLORATION REPORT

Boring No. B-130

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Coarse	% Medium	% Fine	% Coarse	% Medium	Dilatancy	Toughness	Plasticity	Strength
20		G6 36	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=2 in. no odor, dry. -ALLUVIUM-	5	20	15	30	25	5								
22																					
24					23.0	SP	Gray, poorly-graded SAND with gravel (SP), mps=2 in. strong petroleum odor, wet at 23.0 ft. -ALLUVIUM-	5	20	15	30	25	5								
					24.0		Bottom of exploration at 24.0 ft.														

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-130

GEOPROBE EXPLORATION REPORT

Boring No. B-131

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 1
Start September 14, 2007
Finish September 14, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum
Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Field Test Dilatancy Toughness Plasticity Strength
0		G1 24	0.0 4.0	NO WELL INSTALLED			-CEMENT- Crushed, red brick			
2					2.0		-FILL- Gray, poorly-graded SAND (SP), mps = 2in., no odor, dry.		95 5	
4					4.0		-ALLUVIUM- Refusal at 4.0 ft.			
							Bottom of exploration at 4.0 ft.			

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

-  Riser Pipe
-  Screen
-  Filter Sand
-  Cuttings
-  Grout
-  Concrete
-  Bentonite Seal

Summary

Overburden (lin. ft.) 4
Rock Cored (lin. ft.) -
Samples 1G

Boring No. B-131

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-132

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 1
Start September 14, 2007
Finish September 14, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 3	0.0 4.0	NO WELL INSTALLED	0.5	SW	-CEMENT- Brown, well-graded SAND with gravel (SW), mps=2 in., no odor,moist.	PID = 0.0 ppm PID = 0.0 ppm	25	5	25	20	20	5				
2							-ALLUVIUM-											
4		G2 44	4.0 8.0		4.0	SP	Brown, poorly-graded SAND with silt (SP), mps=0.1 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm			10	50	40					
6																		
8		G3 24	8.0 12.0		8.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.5 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	5	15	20	25	30	5				
10																		
12					12.0		Bottom of exploration at 12.0 ft.											

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (lin. ft.) 12
Rock Cored (lin. ft.) -
Samples 3G

Boring No. B-132

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
¹ SPT = Sampler blows per 6 in. ² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-133

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 17, 2007
 Finish September 17, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 24	0.0 4.0	NO WELL INSTALLED	0.5	SP-SM	-CONCRETE- Brown-black, poorly-graded SAND with silt (SP-SM), mps=0.25 in., no odor, dry. -FILL-	PID = 0.0 ppm			15	20	55	10				
2					2.0	SP	Black, poorly-graded SAND (SP), mps=0.75 in., no odor, dry, 30% coal pieces, 5% brick. -FILL-	PID = 0.0 ppm			5	10	40	10				
4		G2 24	4.0 8.0		3.9	SP	Brown, poorly-graded SAND (SP), mps = <0.25 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm				5	90	5				
6																		
8		G3 16	8.0 12.0		8.6	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	15	15	10	20	30	10				
10																		
12		G4 18	12.0 16.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, dry. -ALLUVIUM-	PID = 0.0 ppm	15	15	10	20	30	10				
14																		
16		G5 24	16.0 20.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	15	15	10	20	30	10				
18																		
20					18.6	SP	Brown, poorly-graded SAND with gravel (SP), mps=2 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	25	15	15	25	15	5				

Water Level Data						Sample Identification		Well Diagram		Summary				
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon	G Geoprobe	 Riser Pipe  Screen  Filter Sand  Cuttings  Grout  Concrete  Bentonite Seal	Overburden (lin. ft.) 24	Rock Cored (lin. ft.) -	Samples 6G
			Bottom of Casing	Bottom of Hole	Water									
Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High														
¹ SPT = Sampler blows per 6 in. ² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).														
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.														

GEOPROBE EXPLORATION REPORT

Boring No. B-133

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
20		G6 36	20.0 24.0		20.0	SP	Brown, well-graded SAND with gravel (SP), mps=1.75 in., no odor, dry. -ALLUVIUM-	PID = 0.2 ppm	10	15	25	25	20	5				
22								PID = 1.1 ppm										
								PID = 1.8 ppm										
24					24.0	SP	Brown, well-graded SAND with gravel (SP), mps=1.75 in., chemical odor, wet at 23.0 ft.. -ALLUVIUM-	PID = 6.7 ppm	10	15	25	25	20	5				
							Bottom of exploration at 24.0 ft.											

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-133

GEOPROBE EXPLORATION REPORT

Boring No. B-134

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 1
 Start September 17, 2007
 Finish September 17, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Fines % Fines	Field Test Dilatancy Toughness Plasticity Strength
0		G1 36	0.0 4.0	NO WELL INSTALLED	0.5		-ASPHALT-				
2					2.0	SP-SM	Brown, poorly-graded SAND with silt (SP-SM), mps = 1.5 in., no odor, dry.	5	15	15	40
4		G2 36	4.0 8.0		2.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.5 in., no odor, dry. -ALLUVIUM-	5	10	5	10
6					6.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.5 in., no odor, dry. -ALLUVIUM-	5	10	5	10
8		G3 40	8.0 12.0		6.6	SP	Brown, poorly-graded SAND (SP), mps = 0.5 in., no odor, dry.		5	30	60
10					6.6	SP	Brown, poorly-graded SAND (SP), mps = 1 in., no odor, moist. -ALLUVIUM-	5	5	5	75
12					10.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, wet. -ALLUVIUM-	5	15	15	30
					12.0		Bottom of exploration at 12.0 ft.				

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-134

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None

Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High

Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

 Boring No. **B-135**

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

 File No. 33123-005
 Sheet No. 1 of 1
 Start September 17, 2007
 Finish September 17, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

 Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 36	0.0 4.0	NO WELL INSTALLED	0.5	SP	-ASPHALT- Black-brown, poorly-graded SAND (SP), mps=1.5 in., no odor, dry, 15% coal, 5% brick. -FILL-	PID = 0.0 ppm	5	15	15	40	5				
2																	
4		G2 24	4.0 8.0		4.6	SP	Brown, poorly-graded SAND (SP), mps=0.2 in., no odor, moist, 10% coal, 10% brick. -DISTURBED NATURL SOILS-	PID = 0.0 ppm			5	70	5				
6					7.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1 in., no odor, moist.	PID = 0.0 ppm	5	5	5	80	5				
8		G3 24	8.0 12.0		8.0	SP	-ALLUVIUM- Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	5	15	15	15	45	5			
10																	
12					12.0		Bottom of exploration at 12.0 ft.										

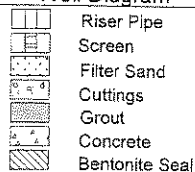
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram



Summary

 Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

 Boring No. **B-135**

Field Tests:

 Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

 Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹ SPT = Sampler blows per 6 in.

² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-136

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 17, 2007
 Finish September 17, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 24	0.0 4.0	NO WELL INSTALLED	0.5	SP	-ASPHALT- Black, poorly-graded SAND (SP), mps=0.5 in., no odor, dry, 15% coal pieces, trace brick. -FILL-	PID = 0.0 ppm				10	60	15				
2			2.0		SP	Brown, poorly-graded SAND (SP), mps = 1.25 in., no odor, dry. -ALLUVIUM-	PID = 0.0 ppm	5	15	20	50	10						
4		G2 2	4.0 8.0				No recovery											
6																		
8		G3 20	8.0 12.0		8.0		Brown, poorly-graded SAND (SP), mps = 1.25 in., no odor, dry. -ALLUVIUM-											
10					9.6	SP	Brown, poorly-graded SAND (SP), mps = <0.1 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm				5	90	5				
12		G4 24	12.0 16.0		10.6	SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	15	20	10	20	30	5				
14					14.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	15	20	25	20	15	5				
16		G5 40	16.0 20.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, dry. -ALLUVIUM-	PID = 0.0 ppm	15	20	25	20	15	5				
18																		
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
 T Thin Wall Tube
 U Undisturbed Sample
 S Split Spoon
 G Geoprobe

Well Diagram

Riser Pipe
 Screen
 Filter Sand
 Cuttings
 Grout
 Concrete
 Bentonite Seal

Summary

Overburden (lin. ft.) 24
 Rock Cored (lin. ft.) -
 Samples 6G

Boring No. B-136

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-136

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness
20		G6 36	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, moist. -ALLUVIUM-	PID = 4.8 ppm	15	20	25	20	15	5	
22								PID = 53.3 ppm							
								PID = 56.3 ppm							
24					24.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., strong petroleum odor, wet at 24.0 ft. Bottom of exploration at 24.0 ft.	PID = 59.8 ppm	15	20	25	20	25	5	

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

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NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-136

GEOPROBE EXPLORATION REPORT

Boring No. B-137

File No. 33123-005

Sheet No. 2 of 2

								Sheet No. 2 of 2												
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand				Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
20		G6 40	20.0 24.0			SP	Gray-black, poorly-graded SAND (SP), mps=0.1 in., strong petroleum odor, wet. -ALLUVIUM-	PID = 22.3 ppm			5	80	15							
22						SP	Gray-black, poorly-graded SAND (SP), mps=0.1 in., strong petroleum odor, wet. -ALLUVIUM-	PID = 37.1 ppm			5	80	15							
24					24.0		Bottom of exploration at 24.0 ft.													

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-137

GEOPROBE EXPLORATION REPORT

Boring No. B-138

Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

File No. 33123-005
 Sheet No. 1 of 2
 Start September 18, 2007
 Finish September 18, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 36	0.0 4.0	NO WELL INSTALLED	0.5	SP	-ASPHALT- Black ash, poorly-graded SAND (SP), mps=0.5 in., no odor, dry, 25% coal pieces, 6 in. wood.	PID = 0.0 ppm			5	10	50	10				
2			2.0		SP	-FILL- Black, poorly-graded SAND (SP), mps=0.75 in., no odor, dry, 20% coal pieces.	PID = 0.0 ppm			15	25	35	5					
4		G2 20	4.0 8.0				-FILL-											
6																		
8		G3 30	8.0 12.0		7.0	SP-SM	Brown, poorly-graded SAND with silt (SP-SM), mps=0.1 in., no odor, moist, 15% coal pieces.	PID = 0.0 ppm				5	70	10				
					8.0	SP-SM	-DISTURBED NATURAL SOILS- Brown, poorly-graded SAND with silt (SP-SM), mps=0.75 in., no odor, moist, 15% coal pieces.	PID = 0.0 ppm			5	10	75	10				
10					10.0	SW	-ALLUVIUM- Brown, well-graded SAND with gravel (SW), mps=1.75 in., no odor, moist.	PID = 0.0 ppm	5	10	30	25	25	5				
12		G4 24	12.0 16.0															
14																		
16		G5 24	16.0 20.0		15.0	SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, dry.	PID = 0.0 ppm	15	15	30	20	15	5				
18				17.0	SP	-ALLUVIUM- Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, dry.	PID = 0.0 ppm	5	15	15	20	35	10					
20							-ALLUVIUM-											

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (lin. ft.) 23
 Rock Cored (lin. ft.) -
 Samples 5G

Boring No. B-138

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹ SPT = Sampler blows per 6 in.² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-138

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Fines		Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20		G6 30	20.0 23.0				PID = 1.4 ppm										
22						SP	PID = 1.7 ppm										
					23.0		PID = 1.3 ppm	5	15	15	20	35	10				
							Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., slight odor, moist. Refusal at 23.0 ft. Bottom of exploration at 23.0 ft.										

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-138

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 2
Start September 18, 2007
Finish September 18, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures	Finish September 18, 2007
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe	Driller K. Bush
Inside Diameter (in.)	-	2	-	Bit Type: -	H&A Rep. B. Zinni
Hammer Weight (lb.)	-	140	-	Drill Mud: -	Elevation
Hammer Fall (in.)	-	30	-	Casing: -	Datum
				Hoist/Hammer: - -	Location See Plan

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Water Level Data						Sample Identification		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		Water						
			Bottom of Casing	Bottom of Hole							
						O	Open End Rod		Riser Pipe		Overburden (lin. ft.) 24
						T	Thin Wall Tube		Screen		Rock Cored (lin. ft.) -
						U	Undisturbed Sample		Filter Sand		Samples 6G
						S	Split Spoon		Cuttings		
						S	Split Spoon		Grout		
						G	Geoprobe		Concrete		
									Bentonite Seal		
										Boring No.	B-139

Field Tests:	Dilatancy: R-Rapid, S-Slow, N-None	Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
	Toughness: L-Low, M-Medium, H-High	Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High
SPT = Sampler blows per 6 in. *Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).		

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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GEOPROBE EXPLORATION REPORT

Boring No. B-139

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness
20		G6 36	20.0 24.0			SP-SM	Tan, poorly-graded SAND with silt (SP-SM), mps 1.75 in., no odor, moist. PID = 0.7 ppm PID = 0.3 ppm PID = 2.3 ppm	15	20	15	15	25	10		
22						SP-SM	Tan, poorly-graded SAND with silt (SP-SM), mps 1.75 in., petroleum odor, moist. PID = 3.8 ppm PID = 3.6 ppm PID = 8.7 ppm	15	20	15	15	25	10		
24					24.0	SP-SM	Tan, poorly-graded SAND with silt (SP-SM), mps 1.75 in., petroleum odor, wet at 23.5 ft.. Bottom of exploration at 24.0 ft. PID = 12.3 ppm PID = 13.7 ppm	15	20	15	15	25	10		

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-139

GEOPROBE EXPLORATION REPORT

Boring No. B-140

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagie Drilling

 File No. 33123-005
 Sheet No. 1 of 2
 Start September 18, 2007
 Finish September 18, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

 Elevation
 Datum

Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Fines % Fines	Field Test Dilatancy Toughness Plasticity Strength
0		G1 ^1	0.0 4.0				Black-brown ash, moist, 20% coal pieces.			5 65 10	
2							-FILL-				
4		G2 12	4.0 8.0								
6					5.0	SP-SM	Brown, poorly-graded SAND with silt and gravel (SP-SM), mps = 1.5 in., no odor, moist. -ALLUVIUM-				
8		G3 30	8.0 12.0			SP-SM	Brown, poorly-graded SAND with silt and gravel (SP-SM), mps = 1.5 in., no odor, dry. -ALLUVIUM-				
10											
12		G4 40	12.0 16.0			SP-SM	Brown, poorly-graded SAND with silt and gravel (SP-SM), mps = 1.5 in., no odor, dry. -ALLUVIUM-				
14											
16		G5 24	16.0 20.0								
18											
20											

NO WELL INSTALLED

PID = 12.0 ppm

PID = 8.0 ppm

PID = 11.3 ppm

PID = 7.2 ppm

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

 Overburden (lin. ft.) 24
 Rock Cored (lin. ft.) -
 Samples 6G

Boring No. B-140

Field Tests:

 Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

 Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-140

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
20		G6 48	20.0 24.0			SP-SM	Brown, poorly-graded SAND with silt and gravel (SP-SM), mps = 1.5 in., no odor, dry. -ALLUVIUM-	10	15	10	15	40	10				
22					22.0	SP-SM	Brown, poorly-graded SAND with silt and gravel (SP-SM), mps = > 1.75 in., no odor, dry. -ALLUVIUM-	20	15	15	20	30	10				
24					24.0		Wet at 22.5 ft. Bottom of exploration at 24.0 ft.										

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-140

GEOPROBE EXPLORATION REPORT

Boring No. B-141

File No. 33123-005

Sheet No. 2 of 2

								Sheet No. 2 of 2											
Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
20		G6 44	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, dry. -ALLUVIUM-	10	20	15	15	35	5						
22							Wet at 24.0 ft.												
24					24.0		Bottom of exploration at 24.0 ft.												

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-141

GEOPROBE EXPLORATION REPORT

Boring No. B-142

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

 File No. 33123-005
 Sheet No. 1 of 2
 Start September 18, 2007
 Finish September 18, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: - -

 Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 10	0.0 4.0	NO WELL INSTALLED	0.5	SP-SM	-CONCRETE- Brown, poorly-graded SAND with silt and gravel (SP-SM), mps = 1.75 in., no odor, dry, 5% cullet, trace brick. -FILL- PID = 0.3 ppm	5	10	10	20	40	10				
2							PID = 0.3 ppm PID = 0.0 ppm										
4		G2 8	4.0 8.0		4.0	SW	Brown, well-graded SAND with gravel (SW), mps = 1.5 in., no odor, moist. -FILL- PID = 0.0 ppm PID = 0.1 ppm	5	10	30	30	20	5				
6							PID = 0.1 ppm										
8		G3 36	8.0 12.0		8.6		-CONCRETE-										
10					9.6	SW	Yellow-brown, well-graded SAND with gravel (SW), mps = 1.5 in., no odor, wet. -ALLUVIUM- PID = 18 ppm PID = 12.7 ppm	5	10	30	30	20	5				
12					12.0		Bottom of exploration at 12.0 ft. PID = 10.7 ppm										

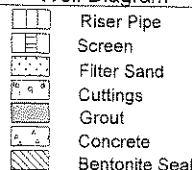
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram



Summary

 Overburden (lin. ft.) 12
 Rock Cored (lin. ft.) -
 Samples 3G

Boring No. B-142

Field Tests:

 Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

 Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹ SPT = Sampler blows per 6 in.

² Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-143-MW

 Project Tioga Avenue Site Phase II Corning, New York
 Client Corning Property Mgmt. Corp.
 Contractor Nothanagle Drilling

 File No. 33123-005
 Sheet No. 1 of 2
 Start September 19, 2007
 Finish September 19, 2007
 Driller K. Bush
 H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

 Elevation
 Datum
 Location See Plan

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0		G1 12	0.0 4.0	NO WELL INSTALLED	0.8	SP	-CONCRETE-	PID = 0.3 ppm	30	15	20	15	15	5				
2			Brown, poorly-graded SAND with gravel (SP), mps = > 1.75 in., no odor, moist. -FILL-															
4		G2 18	4.0 8.0		4.0	SP	Brown-black, poorly-graded SAND with gravel (SP), mps = > 1.75 in., no odor, moist, 10% coal pieces. -FILL-	PID = 0.0 ppm PID = 0.0 ppm PID = 0.0 ppm	10	20	15	15	25	5				
6																		
8		G3 24	8.0 12.0			SP	Brown-black, poorly-graded SAND with gravel (SP), mps = > 1.75 in., no odor, moist, 10% coal pieces. -FILL-	PID = 0.0 ppm PID = 0.1 ppm PID = 0.1 ppm PID = 1.0 ppm	10	20	15	15	25	5				
10																		
12		G4 12	12.0 16.0		12.0	SP	Brown, poorly-graded SAND (SP), mps = > 1.75 in., no odor, dry, 50% crushed rock (granite). -ALLUVIUM-	PID = 1.1 ppm				15	30	5				
14																		
16		G5 12	16.0 20.0		16.0	SP-SM	Brown, poorly-graded SAND with silt and gravel (SP-SM), mps = 1.5 in., no odor, dry. -ALLUVIUM-			15	20	20	35	10				
18																		
20					18.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., no odor, moist. -ALLUVIUM-	PID = 4.6 ppm	15	35	15	20	10	5				

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:
			Bottom of Casing
			Bottom of Hole
			Water

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

 Overburden (lin. ft.) 28
 Rock Cored (lin. ft.) -
 Samples 7G

Boring No. B-143-MW

Field Tests:

 Dilatancy: R-Rapid, S-Slow, N-None
 Toughness: L-Low, M-Medium, H-High

 Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
 Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-143-MW

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness
20		G6 24	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 4.4 ppm	15	35	15	20	10	5	
22								PID = 8.1 ppm							
								PID = 7.7 ppm							
24		G7 24	24.0 28.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., strong petroleum odor, wet at 23.5 ft.	PID = 131.0 ppm	15	35	15	20	10	5	
						SP	-ALLUVIUM- Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., strong petroleum odor, wet.	PID = 87.3 ppm	15	35	15	20	10	5	
26							-ALLUVIUM-	PID = 88.3 ppm							
								PID = 108 ppm							
28					28.0		Bottom of exploration at 28.0 ft.								

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-143-MW



GEOPROBE EXPLORATION REPORT

Boring No. B-144-MW

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 2
Start September 19, 2007
Finish September 19, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Fines			Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0		G1 20	0.0 4.0	NO WELL INSTALLED		SP	Brown, poorly-graded SAND with gravel (SP), mps = 1.75 in., petroleum odor, moist. -ALLUVIUM- PID = 0.8 ppm PID = 1.2 ppm PID = 1.2 ppm PID = 4.0 ppm	10	20	20	25	20	5						
2																			
4		G2 36	4.0 8.0		4.0	SP	Brown, poorly-graded SAND (SP), mps = <0.5 in., petroleum odor, moist. -ALLUVIUM- PID = 3.8 ppm PID = 0.1 ppm PID = 0.1 ppm				5	90	5						
6																			
8		G3 36	8.0 12.0		7.0	SP	Brown, well-graded SAND with gravel (SP), mps = 1.75 in., petroleum odor, moist. -ALLUVIUM- PID = 0.1 ppm PID = 0.6 ppm PID = 0.5 ppm PID = 0.2 ppm PID = 0.2 ppm	10	15	25	25	20	5						
10																			
12		G4 30	12.0 16.0		14.0	SP	Brown, well-graded SAND with gravel (SP), mps = 1.75 in., slight odor, moist. -ALLUVIUM- PID = 0.2 ppm PID = 0.2 ppm	10	15	25	25	20	5						
14				SP		Brown to dark brown, well-graded SAND with silt and gravel (SP), mps = 1.75 in., slight odor, moist. -ALLUVIUM- PID = 0.6 ppm	5	10	30	25	20	10							
16		G5 24	16.0 20.0																
18						SP	Brown to dark brown, well-graded SAND with silt and gravel (SP), mps = 1.75 in., slight odor, moist. -ALLUVIUM- PID = 0.6 ppm	5	10	30	25	20	10						
20					19.5		Brown, poorly-graded SAND with gravel (SP),	10	25	30	15	15	5						

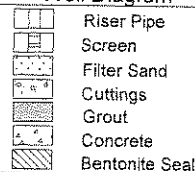
Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon
G Geoprobe

Well Diagram



Summary

Overburden (lin. ft.) 28
Rock Cored (lin. ft.) -
Samples 7G

Boring No. B-144-MW

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-144-MW

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test	
								% Coarse	% Fine	% Coarse	% Medium	% Fines	Dilatancy
20		G6 20	20.0 24.0			SP	mps = > 1.75 in., slight odor, moist. -ALLUVIUM-						
22					22.0	SP	Brown, poorly-graded SAND with gravel (SP), mps = > 1.75 in., petroleum odor, wet at 22.0 ft. -ALLUVIUM-	10	25	30	15	15	5
24		G7 30	24.0 28.0			SP	Brown, poorly-graded SAND with gravel (SP), mps = > 1.75 in., petroleum odor, wet. -ALLUVIUM-	10	25	30	15	15	5
26													
28					28.0		Bottom of exploration at 28.0 ft.						

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-144-MW



GEOPROBE EXPLORATION REPORT

Boring No. B-145-MW

Project Tioga Avenue Site Phase II Corning, New York
Client Corning Property Mgmt. Corp.
Contractor Nothanagle Drilling

File No. 33123-005
Sheet No. 1 of 2
Start September 19, 2007
Finish September 19, 2007
Driller K. Bush
H&A Rep. B. Zinni

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	-	PVC	-	Rig Make & Model: Truck/Geoprobe
Inside Diameter (in.)	-	2	-	Bit Type: -
Hammer Weight (lb.)	-	140	-	Drill Mud: -
Hammer Fall (in.)	-	30	-	Casing: -
				Hoist/Hammer: -

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	PID	Gravel		Sand			Field Test				
									% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		G1 28	0.0 4.0	NO WELL INSTALLED	0.5	SP	-ASPHALT- Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist.	PID = 0.0 ppm	10	10	15	15	45	5				
2			1.0		SP-SM	-FILL- Black, poorly-graded SAND with silt (SP-SM), mps=0.5 in., no odor, moist, 35% coal pieces.	PID = 0.3 ppm			10	20	25	10					
			2.5		SP	-FILL- Brown, poorly-graded SAND (SP), mps=0.25 in., no odor, moist, 10% coal pieces.	PID = 0.4 ppm				15	70	5					
4		G2 36	4.0 8.0		4.0	SP	-FILL- Brown, poorly-graded SAND (SP), mps=0.3 in., no odor, moist.	PID = 0.6 ppm										
6							-ALLUVIUM-	PID = 0.0 ppm			10	85	5					
8		G3 30	8.0 12.0		7.0	SW	Brown, well-graded SAND with gravel (SW), mps= in., no odor, moist.	PID = 0.0 ppm	15	20	20	20	20	5				
							-ALLUVIUM-											
10					10.0	SM	Brown, silty SAND (SM), mps=0.25 in., no odor, moist.	PID = 0.0 ppm				5	80	15				
12		G4 24	12.0 16.0		11.0	SW	-ALLUVIUM- Brown, well-graded SAND with gravel (SW), mps= 1.75 in., no odor, moist.	PID = 0.0 ppm	10	15	20	25	25	5				
							-ALLUVIUM-											
14																		
16		G5 36	16.0 20.0	15.0	SP	Brown, poorly-graded SAND with gravel (SP), mps= 1.75 in., no odor, moist.	PID = 0.0 ppm	15	25	30	15	10	5					
						-ALLUVIUM-												
18																		
20																		

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to:		
			Bottom of Casing	Bottom of Hole	Water

Sample Identification

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (lin. ft.) 28
Rock Cored (lin. ft.) -
Samples 7G

Boring No. B-145-MW

Field Tests:

Dilatancy: R-Rapid, S-Slow, N-None
Toughness: L-Low, M-Medium, H-High

Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

¹SPT = Sampler blows per 6 in.

²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

GEOPROBE EXPLORATION REPORT

Boring No. B-145-MW

File No. 33123-005

Sheet No. 2 of 2

Depth (ft.)	SPT ¹	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
20		G6 30	20.0 24.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., no odor, moist. -ALLUVIUM-	PID = 0.0 ppm	15	25	30	15	10	5							
22							Wet at 22.0 ft.	PID = 0.1 ppm													
24		G7 24	24.0 28.0			SP	Brown, poorly-graded SAND with gravel (SP), mps=1.75 in., slight odor, wet. -ALLUVIUM-	PID = 0.0 ppm													
26								PID = 1.3 ppm	15	25	30	15	10	5							
								PID = 0.1 ppm													
								PID = 0.0 ppm													
28					28.0		Bottom of exploration at 28.0 ft.														

¹SPT = Sampler blows per 6 in. ²Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. B-145-MW