

Appendix O Monitoring Well Construction Logs

Groundwater Well Installation Log

GPEC-GT01(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** R. Polmanteer

GEI Proj. No. 093260-1-1102
Location
 N 687047.38
 E 649699.00
Install Date 8/24/2009

Survey

Datum: NAVD 88

Ground

Elevation: 14.79

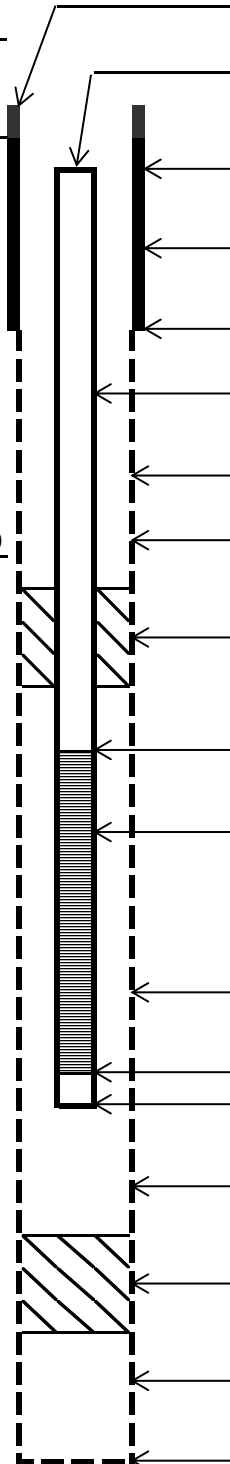
Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

20

UPPER
CLAY/SILT



Length of Surface Casing above Ground 3 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing steel stickup
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Depth Top of Screened Section 30 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 40 ft
 Depth Bottom of Silt Trap 42 ft
 Depth Bottom of Filter Material 42 ft
 Depth Top of Seal 42 ft
 Type of Seal bentonite
 Depth Bottom of Seal 44 ft
 Type of Backfill below Filter Material grout
 Bottom of Borehole 62 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-GT03(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** R. Polmanteer

GEI Proj. No. 093260-1-1102
Location
 N 687177.59
 E 650075.68
Install Date 8/13/2009

Survey

Datum: NAVD 88

Ground

Elevation: 16.39

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

14.6

UPPER
CLAY/SILT

Length of Surface Casing above Ground 3 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe 1 ft
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing steel stickup
 Depth Bottom of Surface Casing 2 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe #2 sand
 Diameter of Borehole 6.25 in.
 Depth Top of Seal
 Type of Seal
 Depth Bottom of Seal
 Depth Top of Screened Section 2 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 17 ft
 Depth Bottom of Silt Trap 19 ft
 Depth Bottom of Filter Material 19 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material grout
 Bottom of Borehole 52 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-GT04D(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** R. Polmanteer

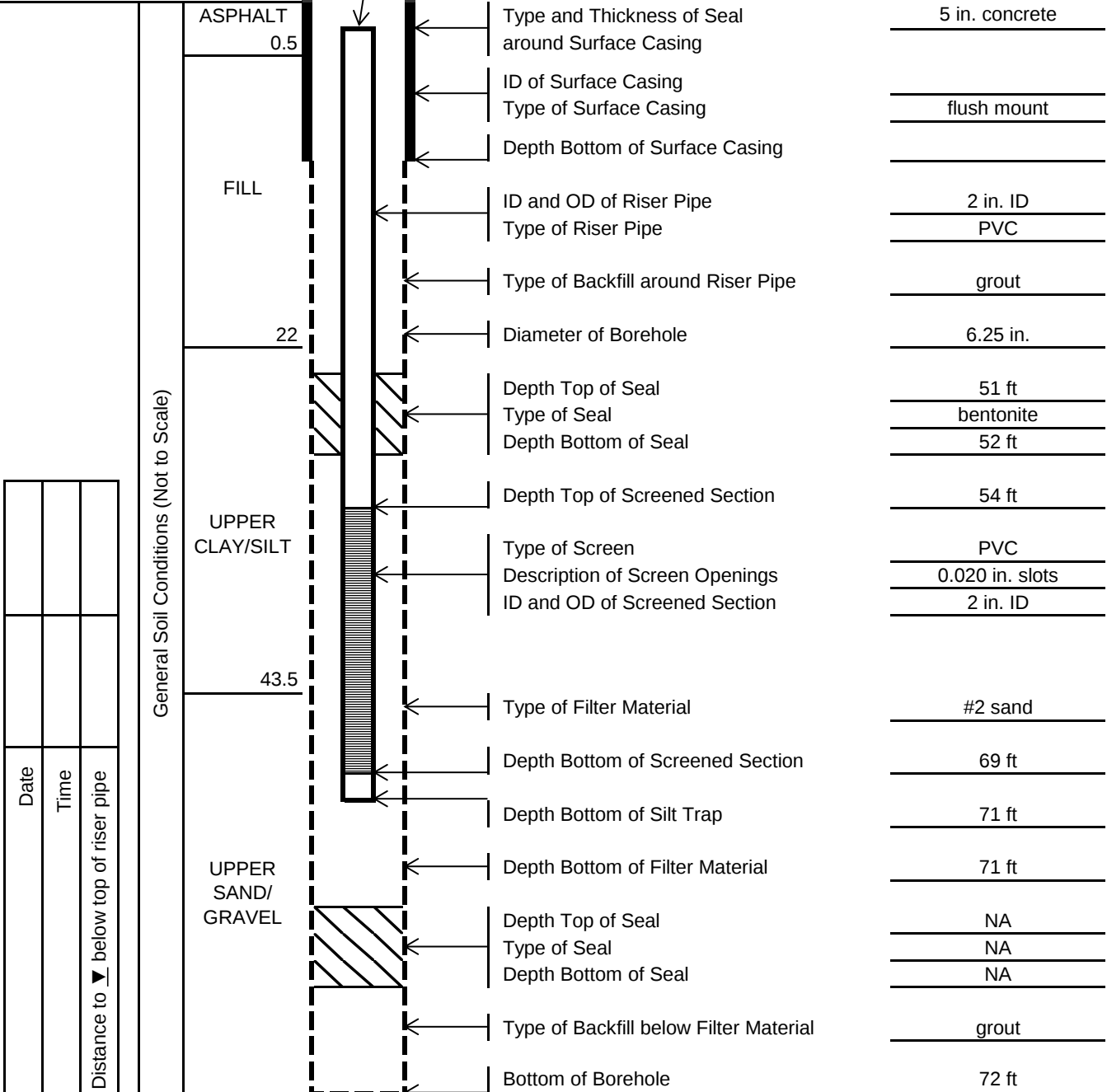
GEI Proj. No. 093260-1-1102
Location
 N 687257.64
 E 650302.09
Install Date 8/10/2009

Survey

Datum: NAVD 88

Ground

Elevation: 15.81



Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-GT04S(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** R. Polmanteer

GEI Proj. No. 093260-1-1102
Location
 N 687254.64
 E 650292.12
Install Date 8/10/2009

Survey

Datum: NAVD 88

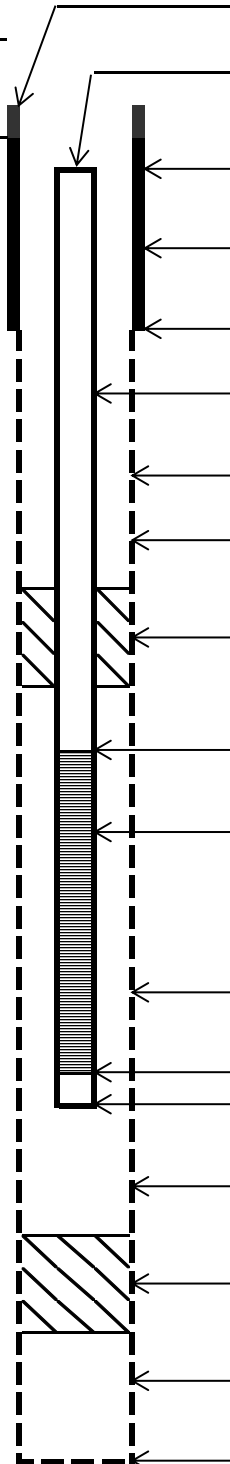
Ground

Elevation: 13.97

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL



Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 5 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 2 ft
 ID and OD of Riser Pipe 2 in. OD
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe NA
 Diameter of Borehole 6.25 in.
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Depth Top of Screened Section 3 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 18 ft
 Depth Bottom of Silt Trap 20 ft
 Depth Bottom of Filter Material 20 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material NA
 Bottom of Borehole 20 ft

Notes: Ground elevation based on
 Boring coordinates provided by
 * Soil conditions based on GPEC-GT-4D(MW)



Groundwater Well Installation Log

GPEC-GT05(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** R. Polmanteer

GEI Proj. No. 093260-1-1102
Location
 N 687292.76
 E 650420.62
Install Date 8/11/2009

Survey

Datum: NAVD 88

Ground

Elevation: 15.73

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

8

UPPER
CLAY/SILT
12

UPPER
SAND/
GRAVEL

Length of Surface Casing above Ground 0 ft

Dist. Top of Surf. Casing to Top of Riser Pipe

Type and Thickness of Seal around Surface Casing 6 in. concrete

ID of Surface Casing 8 in.

Type of Surface Casing flush mount

Depth Bottom of Surface Casing 1 ft

ID and OD of Riser Pipe 2 in. ID

Type of Riser Pipe PVC

Type of Backfill around Riser Pipe grout

Diameter of Borehole 6.25 in.

Depth Top of Seal 2 ft

Type of Seal bentonite

Depth Bottom of Seal 3 ft

Depth Top of Screened Section 5 ft

Type of Screen PVC

Description of Screen Openings 0.020 in. slots

ID and OD of Screened Section 2 in. ID

Type of Filter Material #2 sand

Depth Bottom of Screened Section 20 ft

Depth Bottom of Silt Trap 22 ft

Depth Bottom of Filter Material 25 ft

Depth Top of Seal NA

Type of Seal NA

Depth Bottom of Seal NA

Type of Backfill below Filter Material grout

Bottom of Borehole 52 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-GT07(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** K. Kucher

GEI Proj. No. 093260-1-1102
Location
 N 687412.00
 E 650762.76
Install Date 8/28/2009

Survey

Datum: NAVD 88

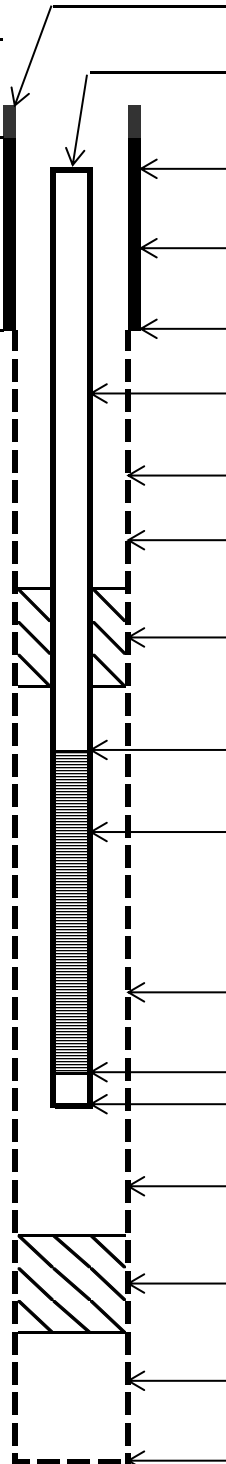
Ground

Elevation: 16.13

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL
8
UPPER SAND/ GRAVEL



Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Depth Top of Screened Section 30 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in.
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 45 ft
 Depth Bottom of Silt Trap 47 ft
 Depth Bottom of Filter Material 48 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material grout
 Bottom of Borehole 52 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-GT10D(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** R. Polmanteer

GEI Proj. No. 093260-1-1102
Location
 N 687649.38
 E 651321.93
Install Date 8/20/2009

Survey

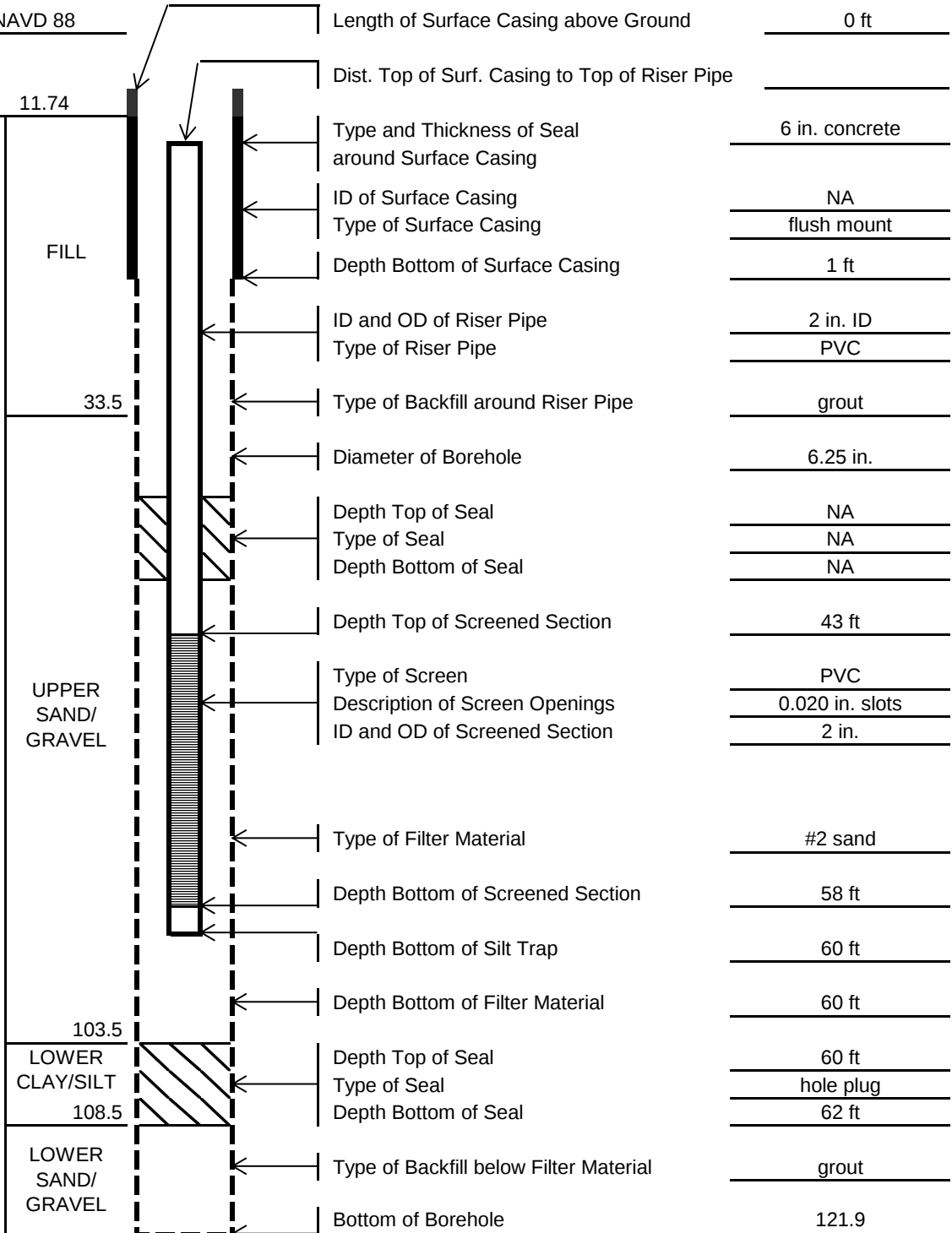
Datum: NAVD 88

Ground

Elevation: 11.74

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)



Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-GT10S(MW)

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** K. Kucher

GEI Proj. No. 093260-1-1102
Location
 N 687625.71
 E 651251.45
Install Date 8/31/2009

Survey

Datum: NAVD 88

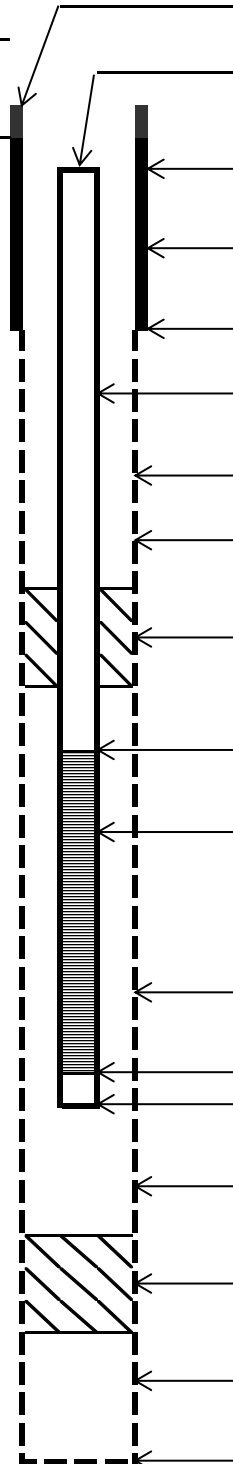
Ground

Elevation: 13.27

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL



Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 2 ft
 Type of Seal grout
 Depth Bottom of Seal 3 ft
 Depth Top of Screened Section 5 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 20 ft
 Depth Bottom of Silt Trap 22 ft
 Depth Bottom of Filter Material 22 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material NA
 Bottom of Borehole 22 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW01

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 687778.96
 E 651236.82
Install Date 4/13/2009

Survey

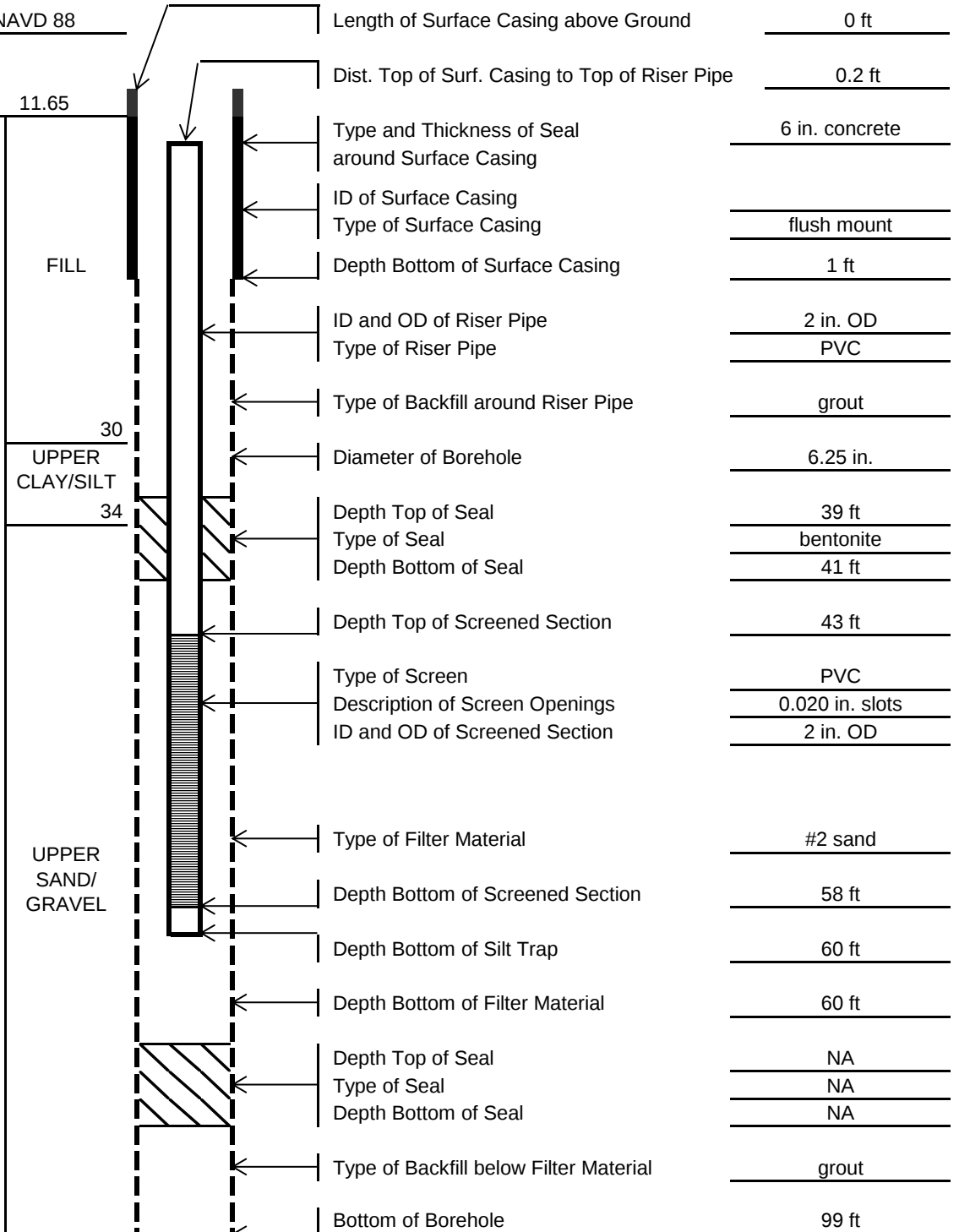
Datum: NAVD 88

Ground

Elevation: 11.65

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)



Notes: Ground elevation based on
 Boring coordinates



Groundwater Well Installation Log

GPEC-MW-01R

Project Greenpoint Cutoff Wall Supplemental Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Boart Longyear
Driller D. Cunningham **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 687778.96
 E 651236.82
Install Date 5/24/2010

Survey

Datum: NAVD 88

Ground

Elevation: 11.65

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

30
UPPER
CLAY/SILT

34
UPPER
SAND/
GRAVEL

Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe 0 ft
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount road box
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 4 in. OD
 Type of Riser Pipe stainless steel
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 8 in.
 Depth Top of Seal 43 ft
 Type of Seal bentonite
 Depth Bottom of Seal 45 ft
 Depth Top of Screened Section 50 ft
 Type of Screen stainless steel
 Description of Screen Openings 0.010 in. slots
 ID and OD of Screened Section 4 in. OD
 Type of Filter Material #0 sand
 Depth Bottom of Screened Section 60 ft
 Depth Bottom of Silt Trap 65 ft
 Depth Bottom of Filter Material 60 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material NA
 Bottom of Borehole 65 ft

Notes: Ground elevation based on
 Boring coordinates
 GPEC-MW-01R overdrilled through GPEC-MW-01 that had been damaged.



Groundwater Well Installation Log

GPEC-MW02

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688035.54
 E 651144.03
Install Date 4/8/2009

Survey

Datum: NAVD 88

Ground

Elevation: 11.34

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

ASPHALT
0.5

FILL

28
UPPER
CLAY/SILT
32

UPPER
SAND/
GRAVEL

91

LOWER
CLAY/SILT

Length of Surface Casing above Ground 0 ft

Dist. Top of Surf. Casing to Top of Riser Pipe

Type and Thickness of Seal around Surface Casing 6 in. concrete

ID of Surface Casing
Type of Surface Casing flush mount

Depth Bottom of Surface Casing

ID and OD of Riser Pipe 2 in. ID
Type of Riser Pipe PVC

Type of Backfill around Riser Pipe grout

Diameter of Borehole 6.25 in.

Depth Top of Seal 16 ft

Type of Seal bentonite

Depth Bottom of Seal 18 ft

Depth Top of Screened Section 20 ft

Type of Screen PVC

Description of Screen Openings 0.020 in. slots

ID and OD of Screened Section 2 in. ID

Type of Filter Material #2 sand

Depth Bottom of Screened Section 35 ft

Depth Bottom of Silt Trap 37 ft

Depth Bottom of Filter Material 37 ft

Depth Top of Seal 37 ft

Type of Seal hole plug

Depth Bottom of Seal 47 ft

Type of Backfill below Filter Material grout

Bottom of Borehole 100 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW03D

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688300.90
 E 651051.42
Install Date 4/20/2009

Survey

Datum: NAVD 88

Ground

Elevation: 10.56

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

		Length of Surface Casing above Ground	0 ft
		Dist. Top of Surf. Casing to Top of Riser Pipe	
		Type and Thickness of Seal around Surface Casing	6 in. concrete
		ID of Surface Casing	
		Type of Surface Casing	flush Mount
		Depth Bottom of Surface Casing	1 ft
		ID and OD of Riser Pipe	2 in. ID
		Type of Riser Pipe	PVC
		Type of Backfill around Riser Pipe	grout
		Diameter of Borehole	6.25 in.
		Depth Top of Seal	86 ft
		Type of Seal	bentonite
		Depth Bottom of Seal	88 ft
		Depth Top of Screened Section	90 ft
		Type of Screen	PVC
		Description of Screen Openings	0.020 in. slots
		ID and OD of Screened Section	2 in. ID
		Type of Filter Material	#2 sand
		Depth Bottom of Screened Section	105 ft
		Depth Bottom of Silt Trap	107 ft
		Depth Bottom of Filter Material	107 ft
		Depth Top of Seal	NA
		Type of Seal	NA
		Depth Bottom of Seal	NA
		Type of Backfill below Filter Material	bentonite
		Bottom of Borehole	115 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW03S

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688289.38
 E 651054.96
Install Date 4/23/2009

Survey

Datum: NAVD 88

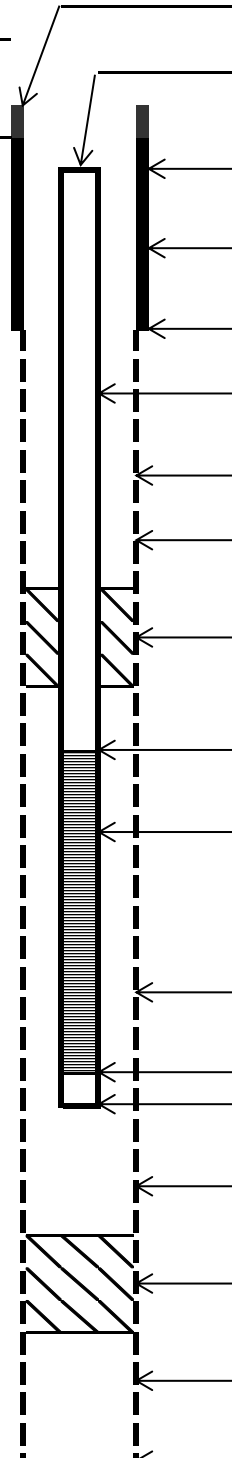
Ground

Elevation: 10.60

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL



Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 22 ft
 Type of Seal bentonite
 Depth Bottom of Seal 23 ft
 Depth Top of Screened Section 25 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 40 ft
 Depth Bottom of Silt Trap 42 ft
 Depth Bottom of Filter Material 42 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material NA
 Bottom of Borehole 42 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW04

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688532.82
 E 650941.48
Install Date 5/4/2009

Survey

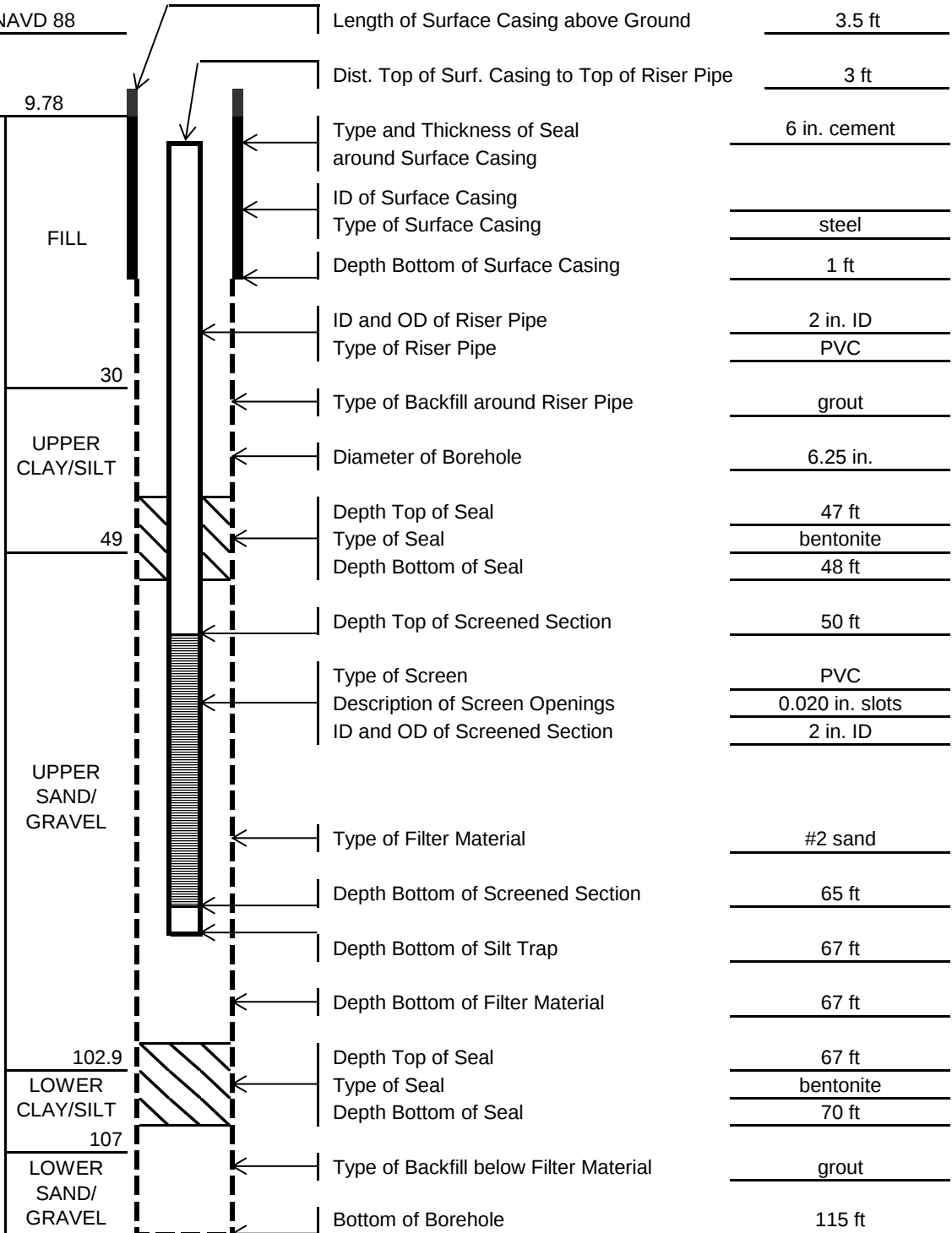
Datum: NAVD 88

Ground

Elevation: 9.78

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)



Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW05D

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688966.94
 E 650755.85
Install Date 5/8/2009

Survey

Datum: NAVD 88

Ground

Elevation: 10.50

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

		Length of Surface Casing above Ground	3 ft
		Dist. Top of Surf. Casing to Top of Riser Pipe	4 in.
		Type and Thickness of Seal around Surface Casing	6 in. concrete
		ID of Surface Casing	steel
		Type of Surface Casing	
		Depth Bottom of Surface Casing	1 ft
	FILL		
	21	ID and OD of Riser Pipe	2 in. ID
		Type of Riser Pipe	PVC
	UPPER CLAY/SILT	Type of Backfill around Riser Pipe	grout
	35	Diameter of Borehole	6.25 in.
		Depth Top of Seal	62 ft
		Type of Seal	bentonite
		Depth Bottom of Seal	63 ft
		Depth Top of Screened Section	65 ft
		Type of Screen	PVC
		Description of Screen Openings	0.020 in. slots
		ID and OD of Screened Section	2 in. ID
	UPPER SAND/ GRAVEL	Type of Filter Material	#2 sand
		Depth Bottom of Screened Section	80 ft
		Depth Bottom of Silt Trap	82 ft
		Depth Bottom of Filter Material	82 ft
	92	Depth Top of Seal	NA
	LOWER CLAY/SILT	Type of Seal	NA
	100	Depth Bottom of Seal	NA
	LOWER SAND/ GRAVEL	Type of Backfill below Filter Material	grout
		Bottom of Borehole	100.9

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW05S

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688982.12
 E 650750.39
Install Date 5/11/2009

Survey

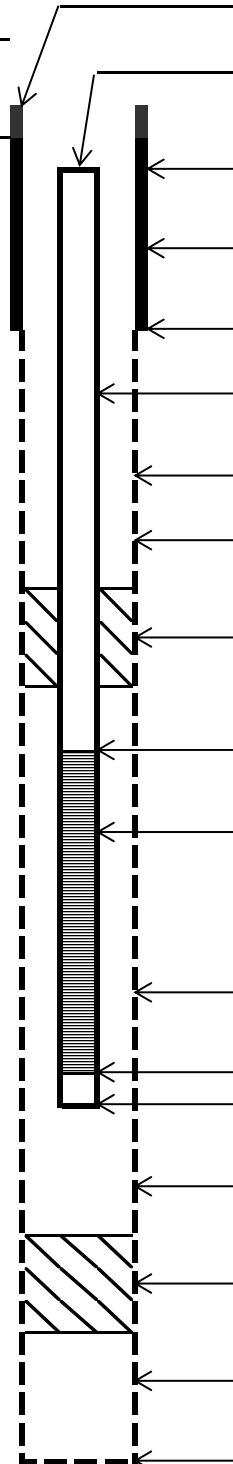
Datum: NAVD 88

Ground

Elevation: 10.16

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)



Length of Surface Casing above Ground 3 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe 4 in.
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing steel
 Type of Surface Casing
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 25 ft
 Type of Seal bentonite
 Depth Bottom of Seal 26 ft
 Depth Top of Screened Section 28 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 38 ft
 Depth Bottom of Silt Trap 40 ft
 Depth Bottom of Filter Material 38 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material NA
 Bottom of Borehole 40 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW06

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 687870.58
 E 650799.67
Install Date 4/24/2009

Survey

Datum: NAVD 88

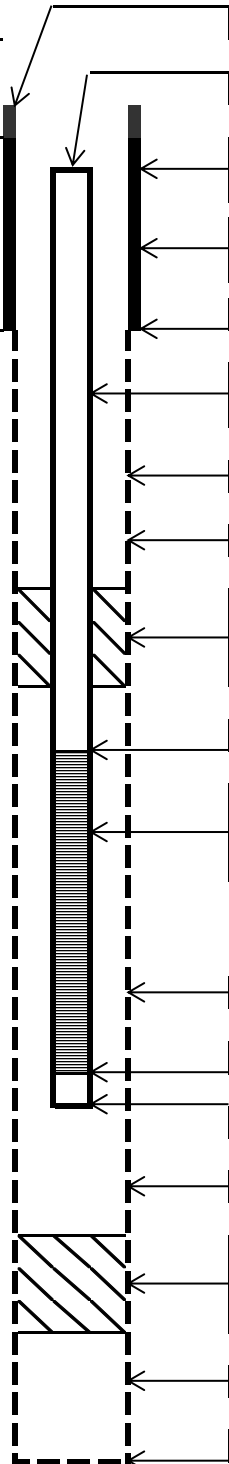
Ground

Elevation: 16.01

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL
8
UPPER SAND/ GRAVEL



Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 0.5 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 5 ft
 Type of Seal bentonite
 Depth Bottom of Seal 6 ft
 Depth Top of Screened Section 8 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 23 ft
 Depth Bottom of Silt Trap 25 ft
 Depth Bottom of Filter Material 25 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material grout
 Bottom of Borehole 50 ft

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW07

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688126.24
 E 650777.92
Install Date 5/28/2009

Survey

Datum: NAVD 88

Ground

Elevation: 11.03

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

13.4

UPPER
CLAY/SILT

26

UPPER
SAND/
GRAVEL

94

LOWER
CLAY/SILT

Length of Surface Casing above Ground

0 ft

Dist. Top of Surf. Casing to Top of Riser Pipe

Type and Thickness of Seal
around Surface Casing

6 in. concrete

ID of Surface Casing
Type of Surface Casing

flush mount

Depth Bottom of Surface Casing

1 ft

ID and OD of Riser Pipe
Type of Riser Pipe

2 in. ID

PVC

Type of Backfill around Riser Pipe

grout

Diameter of Borehole

6.25 in.

Depth Top of Seal

76 ft

Type of Seal

bentonite

Depth Bottom of Seal

77 ft

Depth Top of Screened Section

79 ft

Type of Screen

PVC

Description of Screen Openings

0.020 in. slots

ID and OD of Screened Section

2 in. ID

Type of Filter Material

#2 sand

Depth Bottom of Screened Section

94 ft

Depth Bottom of Silt Trap

96 ft

Depth Bottom of Filter Material

96 ft

Depth Top of Seal

NA

Type of Seal

NA

Depth Bottom of Seal

NA

Type of Backfill below Filter Material

grout

Bottom of Borehole

114 ft

Notes: Ground elevation based on
Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW08

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688452.10
 E 650558.52
Install Date 5/15/2009

Survey

Datum: NAVD 88

Ground

Elevation: 9.40

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

8

UPPER
CLAY/SILT

12

UPPER
SAND/
GRAVEL

Length of Surface Casing above Ground 3 ft

Dist. Top of Surf. Casing to Top of Riser Pipe 4 in.

Type and Thickness of Seal around Surface Casing 6 in. concrete

ID of Surface Casing steel stickup

Type of Surface Casing

Depth Bottom of Surface Casing 1 ft

ID and OD of Riser Pipe 2 in. ID

Type of Riser Pipe PVC

Type of Backfill around Riser Pipe grout

Diameter of Borehole 6.25 in.

Depth Top of Seal 47 ft

Type of Seal bentonite

Depth Bottom of Seal 48 ft

Depth Top of Screened Section 50 ft

Type of Screen PVC

Description of Screen Openings 0.020 in. slots

ID and OD of Screened Section 2 in. ID

Type of Filter Material #2 sand

Depth Bottom of Screened Section 60 ft

Depth Bottom of Silt Trap 62 ft

Depth Bottom of Filter Material 62 ft

Depth Top of Seal NA

Type of Seal NA

Depth Bottom of Seal NA

Type of Backfill below Filter Material bentonite

Bottom of Borehole 80 ft

Notes: Ground elevation based on
 Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW09

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688506.13
 E 650269.03
Install Date 5/13/2009

Survey

Datum: NAVD 88

Ground

Elevation: 20.11

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

14

UPPER
SAND/
GRAVEL

Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe 3 in.
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing NA
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 0.5 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 7 ft
 Type of Seal bentonite
 Depth Bottom of Seal 8 ft
 Depth Top of Screened Section 10 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 25 ft
 Depth Bottom of Silt Trap 27 ft
 Depth Bottom of Filter Material 27 ft
 Depth Top of Seal 27 ft
 Type of Seal bentonite
 Depth Bottom of Seal 30 ft
 Type of Backfill below Filter Material grout
 Bottom of Borehole 64 ft

Notes: Ground elevation based on
 Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW10

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** R. Polmanteer

GEI Proj. No. 093260-1-1102
Location
 N 687734.61
 E 650394.25
Install Date 6/5/2009

Survey

Datum: NAVD 88

Ground

Elevation: 17.14

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

UPPER
SAND/
GRAVEL

20

Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 37 ft
 Type of Seal Bentonite
 Depth Bottom of Seal 38 ft
 Depth Top of Screened Section 40 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 55 ft
 Depth Bottom of Silt Trap 57 ft
 Depth Bottom of Filter Material 57 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material grout
 Bottom of Borehole 70

Notes: Ground elevation based on Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW11

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 687965.52
 E 650054.04
Install Date 6/1/2009

Survey

Datum: NAVD 88

Ground

Elevation: 17.30

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

12

UPPER
CLAY/SILT

16

UPPER
SAND/
GRAVEL

Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 30 ft
 Type of Seal bentonite
 Depth Bottom of Seal 31 ft
 Depth Top of Screened Section 33 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 48 ft
 Depth Bottom of Silt Trap 50 ft
 Depth Bottom of Filter Material 50 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material grout
 Bottom of Borehole 64 ft

Notes: Ground elevation based on
 Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW12

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 687767.44
 E 649520.10
Install Date 6/3/2009

Survey

Datum: NAVD 88

Ground

Elevation: 20.32

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

22.6

UPPER
CLAY/SILT

27

UPPER
SAND/
GRAVEL

Length of Surface Casing above Ground 0 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing flush mount
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 10 ft
 Type of Seal bentonite
 Depth Bottom of Seal 11 ft
 Depth Top of Screened Section 13 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 23 ft
 Depth Bottom of Silt Trap 25 ft
 Depth Bottom of Filter Material 25 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material grout
 Bottom of Borehole 64 ft

Notes: Ground elevation based on
 Boring coordinates provided by



Groundwater Well Installation Log

GPEC-MW13

Project Greenpoint Cutoff Wall Pre-Design Investigation
City / Town Brooklyn, New York
Client National Grid
Contractor Summit Drilling Co.
Driller J. Logel **GEI Rep.** M. Sweet

GEI Proj. No. 093260-1-1102
Location
 N 688779.56
 E 649202.13
Install Date 5/20/2009

Survey

Datum: NAVD 88

Ground

Elevation: 54.81

Date	Time	Distance to ▼ below top of riser pipe

General Soil Conditions (Not to Scale)

FILL

45.2
UPPER
CLAY/SILT

46
UPPER
SAND/
GRAVEL

Length of Surface Casing above Ground 3 ft
 Dist. Top of Surf. Casing to Top of Riser Pipe
 Type and Thickness of Seal around Surface Casing 6 in. concrete
 ID of Surface Casing
 Type of Surface Casing steel stickup
 Depth Bottom of Surface Casing 1 ft
 ID and OD of Riser Pipe 2 in. ID
 Type of Riser Pipe PVC
 Type of Backfill around Riser Pipe grout
 Diameter of Borehole 6.25 in.
 Depth Top of Seal 44 ft
 Type of Seal bentonite
 Depth Bottom of Seal 45 ft
 Depth Top of Screened Section 47 ft
 Type of Screen PVC
 Description of Screen Openings 0.020 in. slots
 ID and OD of Screened Section 2 in. ID
 Type of Filter Material #2 sand
 Depth Bottom of Screened Section 62 ft
 Depth Bottom of Silt Trap 64 ft
 Depth Bottom of Filter Material 64 ft
 Depth Top of Seal NA
 Type of Seal NA
 Depth Bottom of Seal NA
 Type of Backfill below Filter Material NA
 Bottom of Borehole 70 ft

Notes: Ground elevation based on
 Boring coordinates provided by



GPEC-MW306D

Date Completed 7/21/15

Project No. 125180-2-1202

Diagram		Field Data
	LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
	LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
	THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
	TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
	ID OF SURFACE CASING (IN)	NA
	TYPE OF SURFACE CASING	NA
	DEPTH BOTTOM OF CASING (FT)	1'
	RISER PIPE DIAMETER(IN)	2"
	TYPE OF RISER PIPE	Sch 40 PVC
	DIAMETER OF BOREHOLE (IN)	6"
	TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
	DEPTH TOP OF SEAL, IF ANY (FT)	61'
	TYPE OF SEAL	bentonite pellets
	DEPTH BOTTOM OF SEAL (FT)	63'
	DEPTH TOP OF PERVIOUS SECTION	65'
TYPE OF PERVIOUS SECTION	sch 40 PVC	
DESCRIBE OPENINGS	0.020 slot	
PERVIOUS SECTION DIAMETER (IN)	2"	
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand	
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	75'	
DEPTH BOTTOM OF SAND COLUMN (FT)	75'	
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	none	
TYPE OF SEAL	none	
ELEV./DEPTH BOTTOM OF SEAL (FT)		
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	none	

NOTES:

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW306I	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-MW306I</u> Location <u>Area 4</u> Project No. <u>125180-2-1202</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Oiden Gonzalez</u>			
Inspected by <u>Devin Byrne</u>		Date Started <u>7/22/15</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>7/22/15</u>			

SURVEY N <u>687358.9</u> DATUM E <u>650603.0</u>					LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) <u>0.0 (flush-mounted)</u>	
GROUND ELEVATION <u>12.06</u>					LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) <u>0.0 (flush-mounted)</u>	
GENERAL SOIL CONDITIONS (Not to Scale)					THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) <u>1'</u>	
					TYPE OF SURFACE SEAL (indicate any additional seals) <u>#2 sand</u>	
					ID OF SURFACE CASING (IN) <u>NA</u> TYPE OF SURFACE CASING <u>NA</u>	
					DEPTH BOTTOM OF CASING (FT) <u>1'</u>	
					RISER PIPE DIAMETER(IN) <u>2"</u> TYPE OF RISER PIPE <u>Sch 40 PVC</u>	
					DIAMETER OF BOREHOLE (IN) <u>6"</u>	
					TYPE OF BACKFILL AROUND RISER PIPE <u>cement/bentonite grout</u>	
					DEPTH TOP OF SEAL, IF ANY (FT) <u>26'</u> TYPE OF SEAL <u>bentonite pellets</u> DEPTH BOTTOM OF SEAL (FT) <u>28'</u>	
					DEPTH TOP OF PERVIOUS SECTION <u>30'</u>	
					TYPE OF PERVIOUS SECTION <u>sch 40 PVC</u> DESCRIBE OPENINGS <u>0.020 slot</u> PERVIOUS SECTION DIAMETER (IN) <u>2"</u>	
					TYPE OF BACKFILL AROUND PERVIOUS SECTION <u># 2 Sand</u>	
					DEPTH BOTTOM OF PERVIOUS SECTION (FT) <u>40'</u>	
					DEPTH BOTTOM OF SAND COLUMN (FT) <u>40'</u>	
					ELEV./DEPTH TOP OF SEAL, IF ANY (FT) <u>none</u> TYPE OF SEAL <u>none</u> ELEV./DEPTH BOTTOM OF SEAL (FT) <u>none</u>	
					TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY <u>none</u>	

GROUNDWATER OBSERVATION WELL REPORT		GPEC-MW3
Project <u>Greenpoint Energy Center</u>		PG. 1 OF 1 Boring No. <u>GPEC-MW3</u> Location <u>Area</u> Project No. <u>125180-2</u>
Location <u>Brooklyn, New York</u>		
Client <u>National Grid</u>		
Contractor <u>Cascade Drilling</u>	Driller <u>Oiden Gonzalez</u>	
Inspected by <u>Devin Byrne</u>	Date Started <u>7/20/15</u>	
Checked by <u>Chris Morris</u>	Date Completed <u>7/20/15</u>	

SURVEY N <u>687119.3</u> DATUM E <u>649823.8</u> GROUND ELEVATION <u>11.86</u>	GENERAL SOIL CONDITIONS (Not to Scale)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-left: 1px solid black; padding-left: 5px;">LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">0.0 (flush-mou</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">0.0 (flush-mou</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">1'</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF SURFACE SEAL (indicate any additional seals)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">#2 sand</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">ID OF SURFACE CASING (IN)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">NA</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF SURFACE CASING</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">NA</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DEPTH BOTTOM OF CASING (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">1'</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">RISER PIPE DIAMETER(IN)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">2"</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF RISER PIPE</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">Sch 40 PV</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DIAMETER OF BOREHOLE (IN)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">6"</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF BACKFILL AROUND RISER PIPE</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">cement/bentonit</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">58'</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF SEAL</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">bentonite pel</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DEPTH BOTTOM OF SEAL (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">60'</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DEPTH TOP OF PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">63'</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">sch 40 PV</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DESCRIBE OPENINGS</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">0.020 slot</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">PERVIOUS SECTION DIAMETER (IN)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">2"</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF BACKFILL AROUND PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; padding-left: 10px;"># 2 Sand</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DEPTH BOTTOM OF PERVIOUS SECTION (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">73'</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">DEPTH BOTTOM OF SAND COLUMN (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">73'</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">ELEV./DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">none</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF SEAL</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">none</td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">ELEV./DEPTH BOTTOM OF SEAL (FT)</td> <td style="border-bottom: 1px solid black; padding-left: 10px;"></td> </tr> <tr> <td style="border-left: 1px solid black; padding-left: 5px;">TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY</td> <td style="border-bottom: 1px solid black; padding-left: 10px;">none</td> </tr> </table>	LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mou	LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mou	THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'	TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand	ID OF SURFACE CASING (IN)	NA	TYPE OF SURFACE CASING	NA	DEPTH BOTTOM OF CASING (FT)	1'	RISER PIPE DIAMETER(IN)	2"	TYPE OF RISER PIPE	Sch 40 PV	DIAMETER OF BOREHOLE (IN)	6"	TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonit	DEPTH TOP OF SEAL, IF ANY (FT)	58'	TYPE OF SEAL	bentonite pel	DEPTH BOTTOM OF SEAL (FT)	60'	DEPTH TOP OF PERVIOUS SECTION	63'	TYPE OF PERVIOUS SECTION	sch 40 PV	DESCRIBE OPENINGS	0.020 slot	PERVIOUS SECTION DIAMETER (IN)	2"	TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand	DEPTH BOTTOM OF PERVIOUS SECTION (FT)	73'	DEPTH BOTTOM OF SAND COLUMN (FT)	73'	ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	none	TYPE OF SEAL	none	ELEV./DEPTH BOTTOM OF SEAL (FT)		TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	none
LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mou																																																			
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DEPTH BOTTOM OF PERVIOUS SECTION (FT)	73'																																																			
DEPTH BOTTOM OF SAND COLUMN (FT)	73'																																																			
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	none																																																			
TYPE OF SEAL	none																																																			
ELEV./DEPTH BOTTOM OF SEAL (FT)																																																				
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	none																																																			

NOTES:	
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GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW328I	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-MW328I</u> Location <u>Area 4</u> Project No. <u>125180-2-1202</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Oiden Gonzalez</u>			
Inspected by <u>Akin Adegbayi</u>		Date Started <u>7/10/15</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>7/10/15</u>			

SURVEY N <u>687119.1</u> DATUM E <u>649827.2</u>		GROUND ELEVATION <u>11.86</u> Fill/Sand Near Top Meadow Mat Clay Sand/gravel <table border="0" style="width: 100%;"> <tr> <td style="width: 35%; vertical-align: top;"> ← LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) ← LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) ← THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) ← TYPE OF SURFACE SEAL (indicate any additional seals) ← ID OF SURFACE CASING (IN) ← TYPE OF SURFACE CASING ← DEPTH BOTTOM OF CASING (FT) ← RISER PIPE DIAMETER (IN) ← TYPE OF RISER PIPE ← DIAMETER OF BOREHOLE (IN) ← TYPE OF BACKFILL AROUND RISER PIPE ← DEPTH TOP OF SEAL, IF ANY (FT) ← TYPE OF SEAL ← DEPTH BOTTOM OF SEAL (FT) ← DEPTH TOP OF PERVIOUS SECTION ← TYPE OF PERVIOUS SECTION ← DESCRIBE OPENINGS ← PERVIOUS SECTION DIAMETER (IN) ← TYPE OF BACKFILL AROUND PERVIOUS SECTION ← DEPTH BOTTOM OF PERVIOUS SECTION (FT) ← DEPTH BOTTOM OF SAND COLUMN (FT) ← ELEV./DEPTH TOP OF SEAL, IF ANY (FT) ← TYPE OF SEAL ← ELEV./DEPTH BOTTOM OF SEAL (FT) ← TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY </td> <td style="width: 65%; vertical-align: top;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>0.0 (flush-mounted)</td></tr> <tr><td>0.0 (flush-mounted)</td></tr> <tr><td>1'</td></tr> <tr><td>#2 sand</td></tr> <tr><td>NA</td></tr> <tr><td>NA</td></tr> <tr><td>1'</td></tr> <tr><td>2"</td></tr> <tr><td>Sch 40 PVC</td></tr> <tr><td>6"</td></tr> <tr><td>cement/bentonite grout</td></tr> <tr><td>26.0</td></tr> <tr><td>bentonite pellets</td></tr> <tr><td>28.0</td></tr> <tr><td>30.0</td></tr> <tr><td>sch 40 PVC</td></tr> <tr><td>0.020 slot</td></tr> <tr><td>2"</td></tr> <tr><td># 2 Sand</td></tr> <tr><td>40.0</td></tr> <tr><td>40.0</td></tr> <tr><td>none</td></tr> <tr><td>none</td></tr> </table> </td> </tr> </table>			← LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) ← LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) ← THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) ← TYPE OF SURFACE SEAL (indicate any additional seals) ← ID OF SURFACE CASING (IN) ← TYPE OF SURFACE CASING ← DEPTH BOTTOM OF CASING (FT) ← RISER PIPE DIAMETER (IN) ← TYPE OF RISER PIPE ← DIAMETER OF BOREHOLE (IN) ← TYPE OF BACKFILL AROUND RISER PIPE ← DEPTH TOP OF SEAL, IF ANY (FT) ← TYPE OF SEAL ← DEPTH BOTTOM OF SEAL (FT) ← DEPTH TOP OF PERVIOUS SECTION ← TYPE OF PERVIOUS SECTION ← DESCRIBE OPENINGS ← PERVIOUS SECTION DIAMETER (IN) ← TYPE OF BACKFILL AROUND PERVIOUS SECTION ← DEPTH BOTTOM OF PERVIOUS SECTION (FT) ← DEPTH BOTTOM OF SAND COLUMN (FT) ← ELEV./DEPTH TOP OF SEAL, IF ANY (FT) ← TYPE OF SEAL ← ELEV./DEPTH BOTTOM OF SEAL (FT) ← TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>0.0 (flush-mounted)</td></tr> <tr><td>0.0 (flush-mounted)</td></tr> <tr><td>1'</td></tr> <tr><td>#2 sand</td></tr> <tr><td>NA</td></tr> <tr><td>NA</td></tr> <tr><td>1'</td></tr> <tr><td>2"</td></tr> <tr><td>Sch 40 PVC</td></tr> <tr><td>6"</td></tr> <tr><td>cement/bentonite grout</td></tr> <tr><td>26.0</td></tr> <tr><td>bentonite pellets</td></tr> <tr><td>28.0</td></tr> <tr><td>30.0</td></tr> <tr><td>sch 40 PVC</td></tr> <tr><td>0.020 slot</td></tr> <tr><td>2"</td></tr> <tr><td># 2 Sand</td></tr> <tr><td>40.0</td></tr> <tr><td>40.0</td></tr> <tr><td>none</td></tr> <tr><td>none</td></tr> </table>	0.0 (flush-mounted)	0.0 (flush-mounted)	1'	#2 sand	NA	NA	1'	2"	Sch 40 PVC	6"	cement/bentonite grout	26.0	bentonite pellets	28.0	30.0	sch 40 PVC	0.020 slot	2"	# 2 Sand	40.0	40.0	none	none
← LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) ← LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) ← THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) ← TYPE OF SURFACE SEAL (indicate any additional seals) ← ID OF SURFACE CASING (IN) ← TYPE OF SURFACE CASING ← DEPTH BOTTOM OF CASING (FT) ← RISER PIPE DIAMETER (IN) ← TYPE OF RISER PIPE ← DIAMETER OF BOREHOLE (IN) ← TYPE OF BACKFILL AROUND RISER PIPE ← DEPTH TOP OF SEAL, IF ANY (FT) ← TYPE OF SEAL ← DEPTH BOTTOM OF SEAL (FT) ← DEPTH TOP OF PERVIOUS SECTION ← TYPE OF PERVIOUS SECTION ← DESCRIBE OPENINGS ← PERVIOUS SECTION DIAMETER (IN) ← TYPE OF BACKFILL AROUND PERVIOUS SECTION ← DEPTH BOTTOM OF PERVIOUS SECTION (FT) ← DEPTH BOTTOM OF SAND COLUMN (FT) ← ELEV./DEPTH TOP OF SEAL, IF ANY (FT) ← TYPE OF SEAL ← ELEV./DEPTH BOTTOM OF SEAL (FT) ← TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>0.0 (flush-mounted)</td></tr> <tr><td>0.0 (flush-mounted)</td></tr> <tr><td>1'</td></tr> <tr><td>#2 sand</td></tr> <tr><td>NA</td></tr> <tr><td>NA</td></tr> <tr><td>1'</td></tr> <tr><td>2"</td></tr> <tr><td>Sch 40 PVC</td></tr> <tr><td>6"</td></tr> <tr><td>cement/bentonite grout</td></tr> <tr><td>26.0</td></tr> <tr><td>bentonite pellets</td></tr> <tr><td>28.0</td></tr> <tr><td>30.0</td></tr> <tr><td>sch 40 PVC</td></tr> <tr><td>0.020 slot</td></tr> <tr><td>2"</td></tr> <tr><td># 2 Sand</td></tr> <tr><td>40.0</td></tr> <tr><td>40.0</td></tr> <tr><td>none</td></tr> <tr><td>none</td></tr> </table>	0.0 (flush-mounted)	0.0 (flush-mounted)	1'	#2 sand	NA	NA	1'	2"	Sch 40 PVC	6"	cement/bentonite grout	26.0	bentonite pellets	28.0	30.0	sch 40 PVC	0.020 slot	2"	# 2 Sand	40.0	40.0	none	none					
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GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW333D	
Project	Greenpoint Energy Center			PG. 1 OF 1 Boring No. <u>GPEC-SB-333D</u> Location <u>Area 5</u>	
Location	Brooklyn, New York				
Client	National Grid				
Contractor	Cascade Drilling	Driller	Oiden Gonzalez		
Inspected by	Devin Byrne	Date Started	7/14/15		
Checked by	Chris Morris	Date Completed	7/14/15		
				Project No. <u>125180-2-1202</u>	

SURVEY N 686892.3 DATUM E 649128.1 GROUND ELEVATION <u>14.38</u>		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%;"></td> <td style="width: 35%; border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) </td> <td style="width: 30%; text-align: right; border-right: 1px solid black;">0.0 (flush-mounted)</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) </td> <td style="text-align: right; border-right: 1px solid black;">0.0 (flush-mounted)</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) </td> <td style="text-align: right; border-right: 1px solid black;">1'</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> TYPE OF SURFACE SEAL (indicate any additional seals) </td> <td style="text-align: right; border-right: 1px solid black;">#2 sand</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING </td> <td style="text-align: right; border-right: 1px solid black;">NA NA</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> DEPTH BOTTOM OF CASING (FT) </td> <td style="text-align: right; border-right: 1px solid black;">1'</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> RISER PIPE DIAMETER(IN) TYPE OF RISER PIPE </td> <td style="text-align: right; border-right: 1px solid black;">2" Sch 40 PVC</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> DIAMETER OF BOREHOLE (IN) </td> <td style="text-align: right; border-right: 1px solid black;">6"</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> TYPE OF BACKFILL AROUND RISER PIPE </td> <td style="text-align: right; border-right: 1px solid black;">cement/bentonite grout</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT) </td> <td style="text-align: right; border-right: 1px solid black;">60.0 bentonite pellets 63.0</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> DEPTH TOP OF PERVIOUS SECTION </td> <td style="text-align: right; border-right: 1px solid black;">65.0</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN) </td> <td style="text-align: right; border-right: 1px solid black;">sch 40 PVC 0.020 slot 2"</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> TYPE OF BACKFILL AROUND PERVIOUS SECTION </td> <td style="text-align: right; border-right: 1px solid black;"># 2 Sand</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> DEPTH BOTTOM OF PERVIOUS SECTION (FT) </td> <td style="text-align: right; border-right: 1px solid black;">75.0</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> DEPTH BOTTOM OF SAND COLUMN (FT) </td> <td style="text-align: right; border-right: 1px solid black;">76.0</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT) </td> <td style="text-align: right; border-right: 1px solid black;">76.0 bentonite pellets 80.0</td> </tr> <tr> <td></td> <td style="border-left: 1px solid black; border-right: 1px solid black; text-align: center;"> TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY </td> <td style="text-align: right; border-right: 1px solid black;"></td> </tr> </table>				LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)		LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)		THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'		TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand		ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING	NA NA		DEPTH BOTTOM OF CASING (FT)	1'		RISER PIPE DIAMETER(IN) TYPE OF RISER PIPE	2" Sch 40 PVC		DIAMETER OF BOREHOLE (IN)	6"		TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout		DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT)	60.0 bentonite pellets 63.0		DEPTH TOP OF PERVIOUS SECTION	65.0		TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN)	sch 40 PVC 0.020 slot 2"		TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand		DEPTH BOTTOM OF PERVIOUS SECTION (FT)	75.0		DEPTH BOTTOM OF SAND COLUMN (FT)	76.0		ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT)	76.0 bentonite pellets 80.0		TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	
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	TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY																																																						

GENERAL SOIL CONDITIONS (Not to Scale)

Fill/Sand Near Top

Meadow Mat

Sand

Clay

Silty Sand/gravel

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW333I	
Project	Greenpoint Energy Center			PG.	1
Location	Brooklyn, New York			OF	1
Client	National Grid			Boring No.	GPEC-MW333I
Contractor	Cascade Drilling	Driller	Oiden Gonzalez		
Inspected by	Devin Byrne	Date Started	7/15/15		
Checked by	Chris Morris	Date Completed	7/15/15		
				Location	Area 5
				Project No.	125180-2-1202

SURVEY N 686893.3 DATUM E 649132.0	GROUND ELEVATION 14.34 	LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) 0.0 (flush-mounted) LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) 0.0 (flush-mounted) THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) 1' TYPE OF SURFACE SEAL (indicate any additional seals) #2 sand ID OF SURFACE CASING (IN) NA TYPE OF SURFACE CASING NA DEPTH BOTTOM OF CASING (FT) 1' RISER PIPE DIAMETER(IN) 2" TYPE OF RISER PIPE Sch 40 PVC DIAMETER OF BOREHOLE (IN) 6" TYPE OF BACKFILL AROUND RISER PIPE cement/bentonite grout DEPTH TOP OF SEAL, IF ANY (FT) 26' TYPE OF SEAL bentonite pellets DEPTH BOTTOM OF SEAL (FT) 28' DEPTH TOP OF PERVIOUS SECTION 30' TYPE OF PERVIOUS SECTION sch 40 PVC DESCRIBE OPENINGS 0.020 slot PERVIOUS SECTION DIAMETER (IN) 2" TYPE OF BACKFILL AROUND PERVIOUS SECTION # 2 Sand DEPTH BOTTOM OF PERVIOUS SECTION (FT) 40' DEPTH BOTTOM OF SAND COLUMN (FT) 40' ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL none ELEV./DEPTH BOTTOM OF SEAL (FT) TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY none	GENERAL SOIL CONDITIONS (Not to Scale) Fill/Sand Near Top Meadow Mat Sand Clay
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GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW339D	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-SB-339D</u> Location <u>Area 5</u> Project No. <u>125180-2-1202</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Oiden Gonzalez</u>			
Inspected by <u>Devin Byrne</u>		Date Started <u>7/28/15</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>7/28/15</u>			

SURVEY N <u>687188.8</u> DATUM E <u>648739.3</u> GROUND ELEVATION <u>15.22</u> Fill Sand/gravel Clay		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; border-left: 1px solid black; border-right: 1px solid black; padding: 5px;"> </td> <td style="width: 35%; padding: 5px;"> </td> <td style="width: 30%; padding: 5px;"> </td> </tr> </table>					

GROUNDWATER OBSERVATION WELL REPORT			GPEC-MW339I	
Project	Greenpoint Energy Center		PG. <u>1</u> OF <u>1</u>	
Location	Brooklyn, New York		Boring No.	GPEC-MW339I
Client	National Grid		Location	Area 5
Contractor	Cascade Drilling	Driller	Oiden Gonzalez	
Inspected by	Devin Byrne	Date Started	7/28/15	
Checked by	Chris Morris	Date Completed	7/29/15	Project No. 125180-2-1202

SURVEY N 687188.6 DATUM E 648744.4		LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)		3' (stick-up)
GROUND ELEVATION 14.92 Fill Sand/gravel GENERAL SOIL CONDITIONS (Not to Scale)		LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)		2.5'
		THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)		1'
		TYPE OF SURFACE SEAL (indicate any additional seals)		#2 sand
		ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING		4" Steel cover
		DEPTH BOTTOM OF CASING (FT)		1'
		RISER PIPE DIAMETER(IN) TYPE OF RISER PIPE		2" Sch 40 PVC
		DIAMETER OF BOREHOLE (IN)		6"
		TYPE OF BACKFILL AROUND RISER PIPE		cement/bentonite grout
		DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT)		26' bentonite pellets 28'
		DEPTH TOP OF PERVIOUS SECTION		30'
		TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN)		sch 40 PVC 0.020 slot 2"
		TYPE OF BACKFILL AROUND PERVIOUS SECTION		# 2 Sand
		DEPTH BOTTOM OF PERVIOUS SECTION (FT)		40'
		DEPTH BOTTOM OF SAND COLUMN (FT)		40'
		ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT)		NA NA NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY		NA		
NOTES:				

GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW339S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Oiden Gonzalez

Inspected by Devin Byrne

Date Started 7/29/15

Checked by Chris Morris

Date Completed 7/29/15

PG. 1 OF 1

Boring No. GPEC-MW339S

Location Area 5

Project No. 125180-2-1202

SURVEY N 687187.6
DATUM E 648749.9

GROUND ELEVATION 14.80

Fill

Sand/Gravel

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	3' (stick-up)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	2.5'
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand Cement
ID OF SURFACE CASING (IN)	4"
TYPE OF SURFACE CASING	Steel cover
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	6"
TYPE OF BACKFILL AROUND RISER PIPE	#2
DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
DEPTH BOTTOM OF SEAL (FT)	NA
DEPTH TOP OF PERVIOUS SECTION	3'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	13'
DEPTH BOTTOM OF SAND COLUMN (FT)	13'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:

GPEC-MW344D

PG. 1 OF 1

Boring No. GPEC-SB344D

Location	Area 5
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Project No. 125180-2-1202

Date Completed 7/27/15

Bentonite

GEI Consultants

GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW344I

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Oiden Gonzalez

Inspected by Devin Byrne

Date Started 7/27/15

Checked by Chris Morris

Date Completed 7/27/15

PG. 1 OF 1

Boring No. GPEC-MW344I

Location Area 5

Project No. 125180-2-1202

SURVEY N 686805.2

DATUM E 648877.3

GROUND ELEVATION 15.38

Fill

Sand/Gravel

GENERAL SOIL CONDITIONS (Not to Scale)

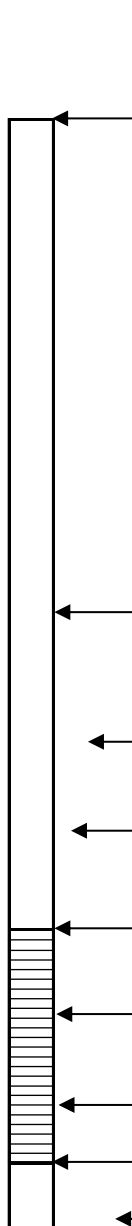
←	LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	3' (stick-up)
←	LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	2.5'
←	THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
←	TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
←	ID OF SURFACE CASING (IN)	4"
←	TYPE OF SURFACE CASING	Steel cover
←	DEPTH BOTTOM OF CASING (FT)	1'
←	RISER PIPE DIAMETER(IN)	2"
←	TYPE OF RISER PIPE	Sch 40 PVC
←	DIAMETER OF BOREHOLE (IN)	6"
←	TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
←	DEPTH TOP OF SEAL, IF ANY (FT)	26'
←	TYPE OF SEAL	bentonite pellets
←	DEPTH BOTTOM OF SEAL (FT)	28'
←	DEPTH TOP OF PERVIOUS SECTION	30'
←	TYPE OF PERVIOUS SECTION	sch 40 PVC
←	DESCRIBE OPENINGS	0.020 slot
←	PERVIOUS SECTION DIAMETER (IN)	2"
←	TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
←	DEPTH BOTTOM OF PERVIOUS SECTION (FT)	40'
←	DEPTH BOTTOM OF SAND COLUMN (FT)	40'
←	ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
←	TYPE OF SEAL	NA
←	ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
←	TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW344S	
Project	Greenpoint Energy Center			PG. 1 OF 1 Boring No. <u>GPEC-MW344S</u> Location <u>Area 5</u> Project No. <u>125180-2-1202</u>	
Location	Brooklyn, New York				
Client	National Grid				
Contractor	Cascade Drilling	Driller	Oiden Gonzalez		
Inspected by	Devin Byrne	Date Started	7/27/15		
Checked by	Chris Morris	Date Completed	7/27/15		

SURVEY N 686803.6 DATUM E 648873.2 GROUND ELEVATION 15.27 Fill Sand/Gravel	GENERAL SOIL CONDITIONS (Not to Scale)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; vertical-align: top;"> ← ← ← ← ← ← ← ← ← </td> <td style="width: 55%; padding-left: 10px;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">0.0 (flush-mounted)</td> </tr> <tr> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">0.0 (flush-mounted)</td> </tr> <tr> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; padding-bottom: 5px;">1'</td> </tr> <tr> <td style="border-bottom: 1px solid black; 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GROUNDWATER OBSERVATION WELL REPORT				GPEC-RW304	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-RW304</u> Location <u>Area 5</u> Project No. <u>125180-2-1202</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Oiden Gonzalez</u>			
Inspected by <u>Devin Byrne</u>		Date Started <u>7/30/15</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>7/31/15</u>			

GENERAL SOIL CONDITIONS (Not to Scale)	SURVEY N <u>687205.6</u>		LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	3' (stick-up)
	DATUM E <u>649210.2</u>		LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	2.5'
	GROUND ELEVATION <u>14.86</u>		THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
			TYPE OF SURFACE SEAL (indicate any additional seals)	#3 sand Cement
	Fill		ID OF SURFACE CASING (IN)	6"
			TYPE OF SURFACE CASING	Steel cover
	Sand/Gravel/Fill		DEPTH BOTTOM OF CASING (FT)	1'
			RISER PIPE DIAMETER(IN)	4"
			TYPE OF RISER PIPE	Sch 40 PVC
			DIAMETER OF BOREHOLE (IN)	8"
			TYPE OF BACKFILL AROUND RISER PIPE	Bentonite
			DEPTH TOP OF SEAL, IF ANY (FT)	1'
			TYPE OF SEAL	Bentonite
			DEPTH BOTTOM OF SEAL (FT)	4'
			DEPTH TOP OF PERVIOUS SECTION	6'
			TYPE OF PERVIOUS SECTION	Stainless Steel
	Meadow Mat		DESCRIBE OPENINGS	0.030 slot
			PERVIOUS SECTION DIAMETER (IN)	4"
TYPE OF BACKFILL AROUND PERVIOUS SECTION		#3 Sand		
DEPTH BOTTOM OF PERVIOUS SECTION (FT)		21'		
DEPTH BOTTOM OF SAND COLUMN (FT)		24'		
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)		NA		
TYPE OF SEAL		NA		
ELEV./DEPTH BOTTOM OF SEAL (FT)		NA		
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY		NA		

GROUNDWATER OBSERVATION WELL REPORT				GPEC-RW332	
Project <u>Greenpoint Energy Center</u>				PG. 1 OF 1 Boring No. <u>GPEC-RW332</u> Location <u>Area 5</u> Project No. <u>125180-2-1202</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Oiden Gonzalez</u>			
Inspected by <u>Devin Byrne</u>		Date Started <u>7/31/15</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>7/31/15</u>			

SURVEY N 686986.5 DATUM E 649446.0 GROUND ELEVATION 13.50		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-right: 1px solid black; padding: 5px; vertical-align: top;"> GENERAL SOIL CONDITIONS (Not to Scale) </td> <td style="width: 40%; padding: 5px; vertical-align: top;"> </td> <td style="width: 15%; padding: 5px; vertical-align: top;"> </td> <td style="width: 10%; padding: 5px; vertical-align: top;"> </td> </tr> </table>		GENERAL SOIL CONDITIONS (Not to Scale)			
GENERAL SOIL CONDITIONS (Not to Scale)							

GROUNDWATER OBSERVATION WELL REPORT

GPEC-GT01S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Rob Gerard-Maillet

Inspected by George Holmes

Date Started 1/30/2017

Checked by Chris Morris

Date Completed 1/30/2017

PG. 1 OF 1

Boring No. GPEC-GT01S

Location Area 4

Project No. 1610913-1-2

SURVEY N 687038.2

DATUM E 649697.4

GROUND
ELEVATION 11.46

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	6"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	1'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	3'
DEPTH TOP OF PERVIOUS SECTION	5'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	15'
DEPTH BOTTOM OF SAND COLUMN (FT)	15'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT				GPEC-GT5D	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-GT5D</u> Location <u>Area 4</u> Project No. <u>1610913-1-2</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Matt Osterberg</u>			
Inspected by <u>Akin Adegbayi</u>		Date Started <u>1/26/2017</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>1/27/2017</u>			

SURVEY N <u>687307.2</u> DATUM <u>E 650421.1</u>					LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) <u>0.0 (flush-mounted)</u>	
GROUND ELEVATION <u>12.22</u>					LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) <u>0.0 (flush-mounted)</u>	
GENERAL SOIL CONDITIONS (Not to Scale)					THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) <u>1'</u>	
					TYPE OF SURFACE SEAL (indicate any additional seals) <u>#2 sand</u>	
ID OF SURFACE CASING (IN) <u>NA</u> TYPE OF SURFACE CASING <u>NA</u>		DEPTH BOTTOM OF CASING (FT) <u>1'</u>				
RISER PIPE DIAMETER (IN) <u>2"</u> TYPE OF RISER PIPE <u>Sch 40 PVC</u>		DIAMETER OF BOREHOLE (IN) <u>6"</u>				
TYPE OF BACKFILL AROUND RISER PIPE <u>cement/bentonite grout</u>		DEPTH TOP OF SEAL, IF ANY (FT) <u>153'</u> TYPE OF SEAL <u>bentonite pellets</u> DEPTH BOTTOM OF SEAL (FT) <u>155'</u>				
DEPTH TOP OF PERVIOUS SECTION <u>157'</u>		TYPE OF PERVIOUS SECTION <u>sch 40 PVC</u> DESCRIBE OPENINGS <u>0.010 slot</u> PERVIOUS SECTION DIAMETER (IN) <u>2"</u>				
TYPE OF BACKFILL AROUND PERVIOUS SECTION <u># 1 Sand</u>		DEPTH BOTTOM OF PERVIOUS SECTION (FT) <u>177'</u>				
DEPTH BOTTOM OF SAND COLUMN (FT) <u>177'</u>		ELEV./DEPTH TOP OF SEAL, IF ANY (FT) <u>NA</u> TYPE OF SEAL <u>NA</u> ELEV./DEPTH BOTTOM OF SEAL (FT) <u>NA</u>				
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY <u>NA</u>						

GROUNDWATER OBSERVATION WELL REPORT				GPEC-GT5I	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-GT5I</u> Location <u>Area 4</u> Project No. <u>1610913-1-2</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Rob Gerard-Maillet</u>			
Inspected by <u>George Holmes</u>		Date Started <u>1/25/2017</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>1/25/2017</u>			

SURVEY N <u>687298.2</u> DATUM <u>E 650424.3</u>		LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) 0.0 (flush-mounted)	
GROUND ELEVATION <u>12.26</u>		LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) 0.0 (flush-mounted)	
GENERAL SOIL CONDITIONS (Not to Scale)		THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) 1'	TYPE OF SURFACE SEAL (indicate any additional seals) #2 sand
	ID OF SURFACE CASING (IN) NA TYPE OF SURFACE CASING NA	DEPTH BOTTOM OF CASING (FT) 1'	
	RISER PIPE DIAMETER(IN) 2" TYPE OF RISER PIPE Sch 40 PVC	DIAMETER OF BOREHOLE (IN) 6"	
	TYPE OF BACKFILL AROUND RISER PIPE cement/bentonite grout	DEPTH TOP OF SEAL, IF ANY (FT) 26' TYPE OF SEAL bentonite pellets DEPTH BOTTOM OF SEAL (FT) 28'	
	DEPTH TOP OF PERVIOUS SECTION 30'	TYPE OF PERVIOUS SECTION sch 40 PVC DESCRIBE OPENINGS 0.020 slot PERVIOUS SECTION DIAMETER (IN) 2"	
	TYPE OF BACKFILL AROUND PERVIOUS SECTION # 2 Sand	DEPTH BOTTOM OF PERVIOUS SECTION (FT) 40' DEPTH BOTTOM OF SAND COLUMN (FT) 40'	
	ELEV./DEPTH TOP OF SEAL, IF ANY (FT) NA TYPE OF SEAL NA ELEV./DEPTH BOTTOM OF SEAL (FT) NA	TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY NA	

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW1D	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-MW1D</u> Location <u>Area 1</u> Project No. <u>1610913-1-2</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Matt Osterberg</u>			
Inspected by <u>Akin Adegbayi</u>		Date Started <u>1/18/2017</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>1/18/2017</u>			

SURVEY N <u>687801.6</u> DATUM <u>E 651248.8</u>		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>GROUND ELEVATION <u>7.38</u></p> <div style="border: 1px solid black; height: 100px; position: relative;"> <div 65%;"="" style="position: absolute; top: 0; right: 0; width: 100%; height: 100%; background: linear-gradient(to bottom, #f0f0f0 49%, #d3d3d3 49% 51%, #d3d3d3 51% 53%, #ffffff 53% 55%, #ffffff 55% 57%, #d3d3d3 57% 59%, #d3d3d3 59% 61%, #ffffff 61% 63%, #ffffff 63% 65%, #d3d3d3 65% 67%, #d3d3d3 67% 69%, #ffffff 69% 71%, #ffffff 71% 73%, #d3d3d3 73% 75%, #d3d3d3 75% 77%, #ffffff 77% 79%, #ffffff 79% 81%, #d3d3d3 81% 83%, #d3d3d3 83% 85%, #ffffff 85% 87%, #ffffff 87% 89%, #d3d3d3 89% 91%, #d3d3d3 91% 93%, #ffffff 93% 95%, #ffffff 95% 97%, #d3d3d3 97% 99%, #d3d3d3 99% 100%);</div> </div> </div> <div style=" width:=""> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-right: 1px solid black; padding: 5px;">LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)</td> <td style="padding: 5px;">0.0 (flush-mounted)</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)</td> <td style="padding: 5px;">0.0 (flush-mounted)</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)</td> <td style="padding: 5px;">1'</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF SURFACE SEAL (indicate any additional seals)</td> <td style="padding: 5px;">#2 sand</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">ID OF SURFACE CASING (IN)</td> <td style="padding: 5px;">NA</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF SURFACE CASING</td> <td style="padding: 5px;">NA</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DEPTH BOTTOM OF CASING (FT)</td> <td style="padding: 5px;">1'</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">RISER PIPE DIAMETER(IN)</td> <td style="padding: 5px;">2"</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF RISER PIPE</td> <td style="padding: 5px;">Sch 40 PVC</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DIAMETER OF BOREHOLE (IN)</td> <td style="padding: 5px;">6"</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF BACKFILL AROUND RISER PIPE</td> <td style="padding: 5px;">cement/bentonite grout</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="padding: 5px;">57'</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF SEAL</td> <td style="padding: 5px;">bentonite pellets</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DEPTH BOTTOM OF SEAL (FT)</td> <td style="padding: 5px;">59'</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DEPTH TOP OF PERVIOUS SECTION</td> <td style="padding: 5px;">60'</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF PERVIOUS SECTION</td> <td style="padding: 5px;">sch 40 PVC</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DESCRIBE OPENINGS</td> <td style="padding: 5px;">0.020 slot</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">PERVIOUS SECTION DIAMETER (IN)</td> <td style="padding: 5px;">2"</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF BACKFILL AROUND PERVIOUS SECTION</td> <td style="padding: 5px;"># 2 Sand</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DEPTH BOTTOM OF PERVIOUS SECTION (FT)</td> <td style="padding: 5px;">70'</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">DEPTH BOTTOM OF SAND COLUMN (FT)</td> <td style="padding: 5px;">70'</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">ELEV./DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="padding: 5px;">NA</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF SEAL</td> <td style="padding: 5px;">NA</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">ELEV./DEPTH BOTTOM OF SEAL (FT)</td> <td style="padding: 5px;">NA</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 5px;">TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY</td> <td style="padding: 5px;">NA</td> </tr> </table> </div> </div></div></div>		LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)	LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)	THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'	TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand	ID OF SURFACE CASING (IN)	NA	TYPE OF SURFACE CASING	NA	DEPTH BOTTOM OF CASING (FT)	1'	RISER PIPE DIAMETER(IN)	2"	TYPE OF RISER PIPE	Sch 40 PVC	DIAMETER OF BOREHOLE (IN)	6"	TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout	DEPTH TOP OF SEAL, IF ANY (FT)	57'	TYPE OF SEAL	bentonite pellets	DEPTH BOTTOM OF SEAL (FT)	59'	DEPTH TOP OF PERVIOUS SECTION	60'	TYPE OF PERVIOUS SECTION	sch 40 PVC	DESCRIBE OPENINGS	0.020 slot	PERVIOUS SECTION DIAMETER (IN)	2"	TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand	DEPTH BOTTOM OF PERVIOUS SECTION (FT)	70'	DEPTH BOTTOM OF SAND COLUMN (FT)	70'	ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA	TYPE OF SEAL	NA	ELEV./DEPTH BOTTOM OF SEAL (FT)	NA	TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA
LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)																																																				
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THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'																																																				
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand																																																				
ID OF SURFACE CASING (IN)	NA																																																				
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TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand																																																				
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	70'																																																				
DEPTH BOTTOM OF SAND COLUMN (FT)	70'																																																				
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA																																																				
TYPE OF SEAL	NA																																																				
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA																																																				
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA																																																				

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Gravel, Sand, Silt

0.0 (flush-mounted)

0.0 (flush-mounted)

1'

#2 sand

NA

NA

1'

2"

Sch 40 PVC

6"

cement/bentonite grout

57'

bentonite pellets

59'

60'

sch 40 PVC

0.020 slot

2"

2 Sand

70'

70'

NA

NA

NA

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW4D	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-MW4D</u> Location <u>Area 2</u> Project No. <u>1610913-1-2</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Matt Osterberg</u>			
Inspected by <u>Dave Sharpe</u>		Date Started <u>1/31/2017</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>1/31/2017</u>			

SURVEY N <u>688535.4</u> DATUM E <u>650951.9</u>					LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)		<u>3' (stick-up)</u>
GROUND ELEVATION <u>6.07</u> 					LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)		<u>2.5'</u>
					THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)		<u>1'</u>
					TYPE OF SURFACE SEAL (indicate any additional seals)		<u>#2 sand</u>
					Fill		ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING
DEPTH BOTTOM OF CASING (FT)		<u>1'</u>					
RISER PIPE DIAMETER(IN) TYPE OF RISER PIPE		<u>2"</u> <u>Sch 40 PVC</u>					
DIAMETER OF BOREHOLE (IN)		<u>6"</u>					
Silt and Sand		TYPE OF BACKFILL AROUND RISER PIPE		<u>cement/bentonite grout</u>			
		DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT)		<u>86'</u> <u>bentonite pellets</u> <u>88'</u>			
		DEPTH TOP OF PERVIOUS SECTION TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN)		<u>90'</u> <u>sch 40 PVC</u> <u>0.020 slot</u> <u>2"</u>			
		TYPE OF BACKFILL AROUND PERVIOUS SECTION		<u># 2 Sand</u>			
Sand		DEPTH BOTTOM OF PERVIOUS SECTION (FT)		<u>100'</u>			
		DEPTH BOTTOM OF SAND COLUMN (FT)		<u>100'</u>			
		ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT)		<u>NA</u> <u>NA</u>			
		TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY		<u>NA</u>			
Silty Sand							

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW5D2	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-MW5D2</u> Location <u>Area 2</u> Project No. <u>1610913-1-2</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Matt Osterberg</u>			
Inspected by <u>Akin Adegbayi</u>		Date Started <u>1/19/2017</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>1/20/2017</u>			

SURVEY N <u>688970.3</u> DATUM E <u>650767.1</u>					LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	<u>3' (stick-up)</u>
GROUND ELEVATION <u>6.81</u> 					LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	<u>2.5'</u>
					THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	<u>1'</u>
					TYPE OF SURFACE SEAL (indicate any additional seals)	
Silt and Sand		ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING	<u>4"</u> <u>Steel casing</u>			
		DEPTH BOTTOM OF CASING (FT)	<u>1'</u>			
Silt and Sand		RISER PIPE DIAMETER(IN) TYPE OF RISER PIPE	<u>2"</u> <u>Sch 40 PVC</u>			
		DIAMETER OF BOREHOLE (IN)	<u>6"</u>			
Silt, Sand, Gravel		TYPE OF BACKFILL AROUND RISER PIPE	<u>cement/bentonite grout</u>			
		DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT)	<u>146'</u> <u>bentonite pellets</u> <u>148'</u>			
Silt		DEPTH TOP OF PERVIOUS SECTION	<u>150'</u>			
		TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN)	<u>sch 40 PVC</u> <u>0.010 slot</u> <u>2"</u>			
Silt and Gravel		TYPE OF BACKFILL AROUND PERVIOUS SECTION	<u># 1 Sand</u>			
		DEPTH BOTTOM OF PERVIOUS SECTION (FT)	<u>170'</u>			
Silt and Gravel		DEPTH BOTTOM OF SAND COLUMN (FT)	<u>170'</u>			
		ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT)	<u>170'</u> <u>190'</u>			
Silt and Gravel		TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	<u>bentonite pellets</u>			

GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW332I

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Rob Gerard-Maillet

Inspected by George Holmes

Date Started 1/24/2017

Checked by Chris Morris

Date Completed 1/24/2017

PG. 1 OF 1

Boring No. GPEC-MW332I

Location Area 5

Project No. 1610913-1-2

SURVEY N 686986.5

DATUM E 649440.6

GROUND
ELEVATION 13.86

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Sand and Clay

Peat (23'-25')

Peat (30'-35')

Clay and Sand

LENGTH OF SURFACE CASING ABOVE GROUND
SURFACE (FT)

3' (stick-up)

LENGTH OF RISER PIPE ABOVE GROUND
SURFACE (FT)

2.5'

THICKNESS OF SURFACE SEAL BELOW
GROUND SURFACE, IF ANY (FT)

1'

TYPE OF SURFACE SEAL (indicate any
additional seals)

#2 sand

ID OF SURFACE CASING (IN)
TYPE OF SURFACE CASING

4"

Steel casing

DEPTH BOTTOM OF CASING (FT)

1'

RISER PIPE DIAMETER(IN)
TYPE OF RISER PIPE

2"

Sch 40 PVC

DIAMETER OF BOREHOLE (IN)

6"

TYPE OF BACKFILL AROUND RISER PIPE

cement/bentonite grout

DEPTH TOP OF SEAL, IF ANY (FT)
TYPE OF SEAL

31'

bentonite pellets

DEPTH BOTTOM OF SEAL (FT)

33'

DEPTH TOP OF PERVIOUS SECTION

35'

TYPE OF PERVIOUS SECTION

sch 40 PVC

DESCRIBE OPENINGS

0.010 slot

PERVIOUS SECTION DIAMETER (IN)

2"

TYPE OF BACKFILL AROUND PERVIOUS SECTION

1 Sand

DEPTH BOTTOM OF PERVIOUS SECTION (FT)

45'

DEPTH BOTTOM OF SAND COLUMN (FT)

45'

ELEV./DEPTH TOP OF SEAL, IF ANY (FT)
TYPE OF SEAL

NA

ELEV./DEPTH BOTTOM OF SEAL (FT)

NA

TYPE OF BACKFILL BELOW PERVIOUS SECTION,
IF ANY

NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW401

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Matt Osterberg

Inspected by Akin Adegbayi

Date Started 1/30/2017

Checked by Chris Morris

Date Completed 1/30/2017

PG. 1 OF 1

Boring No. GPEC-MW401

Location Area 9

Project No. 1610913-1-2

SURVEY N 688086.3

DATUM E 649002.4

GROUND
ELEVATION 30.02

Sand

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	6"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	73'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	75'
DEPTH TOP OF PERVIOUS SECTION	77'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	87'
DEPTH BOTTOM OF SAND COLUMN (FT)	87'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	87'
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	100'
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW402

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Rob Gerard-Maillet

Inspected by George Holmes

Date Started 1/31/2017

Checked by Chris Morris

Date Completed 1/31/2017

PG. 1 OF 1

Boring No. GPEC-MW402

Location Area 7

Project No. 1610913-1-2

SURVEY N 688085.3

DATUM E 650300.8

GROUND
ELEVATION 13.50

Fill

Sand and Silt

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	3' (stick-up)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	2.5'
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	4"
TYPE OF SURFACE CASING	Steel casing
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	6"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	84.5'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	87.5'
DEPTH TOP OF PERVIOUS SECTION	90'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	100'
DEPTH BOTTOM OF SAND COLUMN (FT)	100'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-SIS-101S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Evan Moraitis

Inspected by George Holmes

Date Started 2/15/2017

Checked by Chris Morris

Date Completed 2/15/2017

PG. 1 OF 1

Boring No. GPEC-SIS-101S

Location Maspeth Avenue

Project No. 1610913-1-2

SURVEY N 687064.9

DATUM E 649869.7

GROUND
ELEVATION 11.51

Fill

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	1"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	2'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	4'
DEPTH TOP OF PERVIOUS SECTION	6'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	1"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	11'
DEPTH BOTTOM OF SAND COLUMN (FT)	11'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-SIS-102I

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Evan Moraitis

Inspected by George Holmes

Date Started 2/15/2017

Checked by Chris Morris

Date Completed 2/15/2017

PG. 1 OF 1

Boring No. GPEC-SIS-102I

Location Maspeth Avenue

Project No. 1610913-1-2

SURVEY N 687056.3

DATUM E 649881.6

GROUND
ELEVATION 11.99

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Silt and Sand

Clay, Silt, Sand

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	1"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	11'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	13.5'
DEPTH TOP OF PERVIOUS SECTION	14'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	1"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	#2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	19'
DEPTH BOTTOM OF SAND COLUMN (FT)	19'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	19'
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	20'
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-SIS-102S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Evan Moraitis

Inspected by George Holmes

Date Started 2/15/2017

Checked by Chris Morris

Date Completed 2/15/2017

PG. 1 OF 1

Boring No. GPEC-SIS-102S

Location Maspeth Avenue

Project No. 1610913-1-2

SURVEY N 687054.8

DATUM E 649876.5

GROUND
ELEVATION 11.95

Fill

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	1"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	2'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	4'
DEPTH TOP OF PERVIOUS SECTION	6'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	1"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	11'
DEPTH BOTTOM OF SAND COLUMN (FT)	11'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-SIS-103S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Evan Moraitis

Inspected by George Holmes

Date Started 2/13/2017

Checked by Chris Morris

Date Completed 2/13/2017

PG. 1 OF 1

Boring No. GPEC-SIS-103S

Location Maspeth Avenue

Project No. 1610913-1-2

SURVEY N 687257.8

DATUM E 650430.7

GROUND
ELEVATION 11.64

Fill

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	1"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	5'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	7'
DEPTH TOP OF PERVIOUS SECTION	9'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	1"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	14'
DEPTH BOTTOM OF SAND COLUMN (FT)	14'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-SIS-104I

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Evan Moraitis

Inspected by George Holmes

Date Started 2/13/2017

Checked by Chris Morris

Date Completed 2/13/2017

PG. 1 OF 1

Boring No. GPEC-SIS-104I

Location Maspeth Avenue

Project No. 1610913-1-2

SURVEY N 687249.8

DATUM E 650436.3

GROUND
ELEVATION 11.86

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Sand

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	1"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	14'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	16.5'
DEPTH TOP OF PERVIOUS SECTION	17'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	1"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	22'
DEPTH BOTTOM OF SAND COLUMN (FT)	22'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-SIS-104S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Evan Moraitis

Inspected by George Holmes

Date Started 2/13/2017

Checked by Chris Morris

Date Completed 2/13/2017

PG. 1 OF 1

Boring No. GPEC-SIS-104S

Location Maspeth Avenue

Project No. 1610913-1-2

SURVEY N 687247.9

DATUM E 650430.4

GROUND
ELEVATION 11.86

Fill

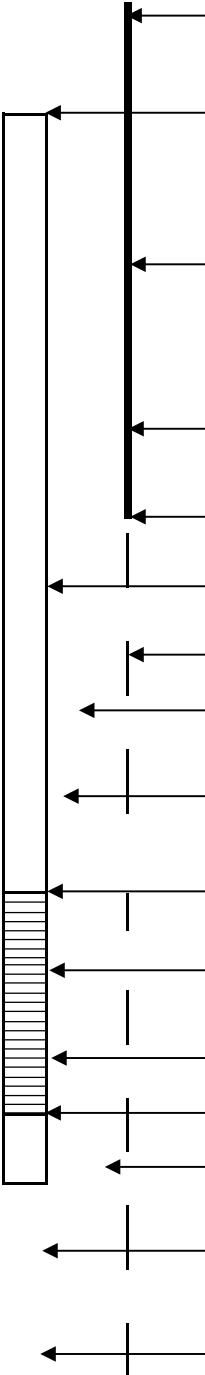
GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	1"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	5'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	7'
DEPTH TOP OF PERVIOUS SECTION	9'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	1"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	14'
DEPTH BOTTOM OF SAND COLUMN (FT)	14'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT				GPE-MW2D2	
Project	Greenpoint Energy Center			PG. 1 OF 1	Boring No. GPE-MW2D2
Location	Brooklyn, New York				
Client	National Grid			Location Area 2	
Contractor	Cascade Drilling	Driller	Matt Osterberg		
Inspected by	Chris Morris	Date Started	1/24/2017		
Checked by	Chris Morris	Date Completed	1/24/2017	Project No.	1610913-1-2

SURVEY N 689367.2 DATUM E 650595.5	GROUND ELEVATION 7.52 Fill Silt and Sand Clay, Silt, Sand	 LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) TYPE OF SURFACE SEAL (indicate any additional seals) ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING DEPTH BOTTOM OF CASING (FT) RISER PIPE DIAMETER (IN) TYPE OF RISER PIPE DIAMETER OF BOREHOLE (IN) TYPE OF BACKFILL AROUND RISER PIPE DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT) DEPTH TOP OF PERVIOUS SECTION TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN) TYPE OF BACKFILL AROUND PERVIOUS SECTION DEPTH BOTTOM OF PERVIOUS SECTION (FT) DEPTH BOTTOM OF SAND COLUMN (FT) ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT) TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY 0.0 (flush-mounted) 0.0 (flush-mounted) 1' #2 sand NA NA 1' 2" Sch 40 PVC 6" cement/bentonite grout 95' bentonite pellets 98' 100' sch 40 PVC 0.010 slot 2" # 1 Sand 120' 121' 121' 137' Bentonite pellets
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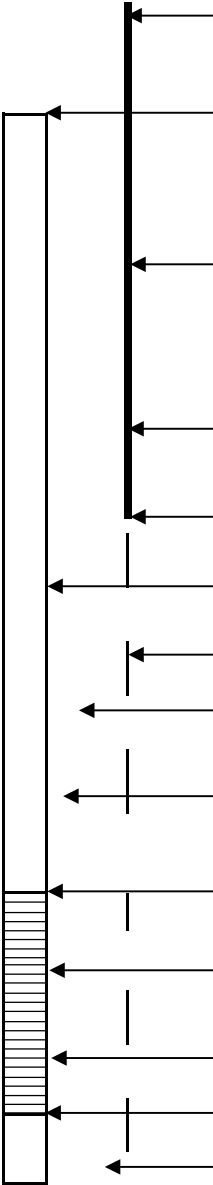
GROUNDWATER OBSERVATION WELL REPORT				MW-2D	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>MW-2D</u> Location <u>Area 6</u> Project No. <u>1610913-1-2</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Rob Gerard-Maillet</u>			
Inspected by <u>George Holmes</u>		Date Started <u>1/26/2017</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>1/27/2017</u>			

SURVEY N <u>688812.4</u> DATUM E <u>648803.8</u>					LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)		<u>3' (stick-up)</u>
GROUND ELEVATION <u>57.02</u>					LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)		<u>2.5'</u>
					THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)		<u>1'</u>
					TYPE OF SURFACE SEAL (indicate any additional seals)		<u>#2 sand</u>
GENERAL SOIL CONDITIONS (Not to Scale)		ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING		<u>4"</u> <u>Steel casing</u>			
		DEPTH BOTTOM OF CASING (FT)		<u>1'</u>			
		RISER PIPE DIAMETER(IN) TYPE OF RISER PIPE		<u>2"</u> <u>Sch 40 PVC</u>			
		DIAMETER OF BOREHOLE (IN)		<u>6"</u>			
		TYPE OF BACKFILL AROUND RISER PIPE		<u>cement/bentonite grout</u>			
		DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT)		<u>125'</u> <u>bentonite pellets</u> <u>128'</u>			
		DEPTH TOP OF PERVIOUS SECTION		<u>130'</u>			
		TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN)		<u>sch 40 PVC</u> <u>0.010 slot</u> <u>2"</u>			
		TYPE OF BACKFILL AROUND PERVIOUS SECTION		<u># 1 Sand</u>			
		DEPTH BOTTOM OF PERVIOUS SECTION (FT)		<u>150'</u>			
		DEPTH BOTTOM OF SAND COLUMN (FT)		<u>150'</u>			
		ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT)		<u>NA</u> <u>NA</u> <u>NA</u>			
		TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY		<u>NA</u>			

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW403	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-MW403</u> Location <u>Area 1</u> Project No. <u>125180-3-1302</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Jon Weeks</u>			
Inspected by <u>George Holmes</u>		Date Started <u>2/28/17</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>2/28/17</u>			

SURVEY N <u>687735.5</u> DATUM E <u>651255.2</u>		LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) <u>0.0 (flush-mounted)</u>	
GROUND ELEVATION <u>7.91</u>		LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) <u>0.0 (flush-mounted)</u>	
GENERAL SOIL CONDITIONS (Not to Scale)		THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) <u>1'</u>	TYPE OF SURFACE SEAL (indicate any additional seals) <u>#2 sand</u>
	Fill	ID OF SURFACE CASING (IN) <u>NA</u> TYPE OF SURFACE CASING <u>NA</u>	
	Peat (~26-29')	DEPTH BOTTOM OF CASING (FT) <u>1'</u>	
	Silty Sand	RISER PIPE DIAMETER(IN) <u>2"</u> TYPE OF RISER PIPE <u>Sch 40 PVC</u>	
	Sand	DIAMETER OF BOREHOLE (IN) <u>6"</u>	
		TYPE OF BACKFILL AROUND RISER PIPE <u>cement/bentonite grout</u>	
		DEPTH TOP OF SEAL, IF ANY (FT) <u>28.5</u> TYPE OF SEAL <u>bentonite pellets</u> DEPTH BOTTOM OF SEAL (FT) <u>30.5</u>	
		DEPTH TOP OF PERVIOUS SECTION <u>33.5</u>	
		TYPE OF PERVIOUS SECTION <u>sch 40 PVC</u> DESCRIBE OPENINGS <u>0.020 slot</u> PERVIOUS SECTION DIAMETER (IN) <u>2"</u>	
		TYPE OF BACKFILL AROUND PERVIOUS SECTION <u># 2 Sand</u>	
		DEPTH BOTTOM OF PERVIOUS SECTION (FT) <u>43.5</u>	
		DEPTH BOTTOM OF SAND COLUMN (FT) <u>45.0</u>	
		ELEV./DEPTH TOP OF SEAL, IF ANY (FT) <u>45.0</u> TYPE OF SEAL <u>bentonite pellets</u> ELEV./DEPTH BOTTOM OF SEAL (FT) <u>50.0</u>	
		TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY <u>Bentonite pellets</u>	

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW404	
Project	Greenpoint Energy Center			PG. 1 OF 1	Boring No. GPEC-MW404
Location	Brooklyn, New York				
Client	National Grid			Location	Area 1
Contractor	Cascade Drilling	Driller	Jon Weeks		
Inspected by	George Holmes	Date Started	2/27/17	Project No.	125180-3-1302
Checked by	Chris Morris	Date Completed	2/27/17		

SURVEY N 687856.8 DATUM E 651232.1	GROUND ELEVATION 8.49	GENERAL SOIL CONDITIONS (Not to Scale)		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">0.0 (flush-mounted)</td> </tr> <tr> <td style="padding: 2px 5px;">LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">0.0 (flush-mounted)</td> </tr> <tr> <td style="padding: 2px 5px;">THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">1'</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF SURFACE SEAL (indicate any additional seals)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">#2 sand</td> </tr> <tr> <td style="padding: 2px 5px;">ID OF SURFACE CASING (IN)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">NA</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF SURFACE CASING</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">NA</td> </tr> <tr> <td style="padding: 2px 5px;">DEPTH BOTTOM OF CASING (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">1'</td> </tr> <tr> <td style="padding: 2px 5px;">RISER PIPE DIAMETER(IN)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">2"</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF RISER PIPE</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">Sch 40 PVC</td> </tr> <tr> <td style="padding: 2px 5px;">DIAMETER OF BOREHOLE (IN)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">6"</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF BACKFILL AROUND RISER PIPE</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">cement/bentonite grout</td> </tr> <tr> <td style="padding: 2px 5px;">DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">30.5</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF SEAL</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">bentonite pellets</td> </tr> <tr> <td style="padding: 2px 5px;">DEPTH BOTTOM OF SEAL (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">33.0</td> </tr> <tr> <td style="padding: 2px 5px;">DEPTH TOP OF PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">35.0</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">sch 40 PVC</td> </tr> <tr> <td style="padding: 2px 5px;">DESCRIBE OPENINGS</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">0.020 slot</td> </tr> <tr> <td style="padding: 2px 5px;">PERVIOUS SECTION DIAMETER (IN)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">2"</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF BACKFILL AROUND PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;"># 2 Sand</td> </tr> <tr> <td style="padding: 2px 5px;">DEPTH BOTTOM OF PERVIOUS SECTION (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">45.0</td> </tr> <tr> <td style="padding: 2px 5px;">DEPTH BOTTOM OF SAND COLUMN (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">45.0</td> </tr> <tr> <td style="padding: 2px 5px;">ELEV./DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">45.0</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF SEAL</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;"></td> </tr> <tr> <td style="padding: 2px 5px;">ELEV./DEPTH BOTTOM OF SEAL (FT)</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">55.0</td> </tr> <tr> <td style="padding: 2px 5px;">TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY</td> <td style="border-bottom: 1px solid black; padding: 2px 5px;">Bentonite pellets</td> </tr> </table>	LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)	LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)	THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'	TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand	ID OF SURFACE CASING (IN)	NA	TYPE OF SURFACE CASING	NA	DEPTH BOTTOM OF CASING (FT)	1'	RISER PIPE DIAMETER(IN)	2"	TYPE OF RISER PIPE	Sch 40 PVC	DIAMETER OF BOREHOLE (IN)	6"	TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout	DEPTH TOP OF SEAL, IF ANY (FT)	30.5	TYPE OF SEAL	bentonite pellets	DEPTH BOTTOM OF SEAL (FT)	33.0	DEPTH TOP OF PERVIOUS SECTION	35.0	TYPE OF PERVIOUS SECTION	sch 40 PVC	DESCRIBE OPENINGS	0.020 slot	PERVIOUS SECTION DIAMETER (IN)	2"	TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand	DEPTH BOTTOM OF PERVIOUS SECTION (FT)	45.0	DEPTH BOTTOM OF SAND COLUMN (FT)	45.0	ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	45.0	TYPE OF SEAL		ELEV./DEPTH BOTTOM OF SEAL (FT)	55.0	TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets
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TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets																																																					

GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW405

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Jon Weeks

Inspected by George Holmes

Date Started 2/27/17

Checked by Chris Morris

Date Completed 2/28/17

PG. 1 OF 1

Boring No. GPEC-MW405

Location Area 1

Project No. 125180-3-1302

SURVEY N 687954.8
DATUM E 651191.1

GROUND
ELEVATION 8.58

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Silt and Clay

Peat (~35.5-38)

Silt, Sand and
Gravel

LENGTH OF SURFACE CASING ABOVE GROUND
SURFACE (FT)

0.0 (flush-mounted)

LENGTH OF RISER PIPE ABOVE GROUND
SURFACE (FT)

0.0 (flush-mounted)

THICKNESS OF SURFACE SEAL BELOW
GROUND SURFACE, IF ANY (FT)

1'

TYPE OF SURFACE SEAL (indicate any
additional seals)

#2 sand

ID OF SURFACE CASING (IN)
TYPE OF SURFACE CASING

NA

NA

DEPTH BOTTOM OF CASING (FT)

1'

RISER PIPE DIAMETER(IN)
TYPE OF RISER PIPE

2"

Sch 40 PVC

DIAMETER OF BOREHOLE (IN)

6"

TYPE OF BACKFILL AROUND RISER PIPE

cement/bentonite grout

DEPTH TOP OF SEAL, IF ANY (FT)

35.5

TYPE OF SEAL

bentonite pellets

DEPTH BOTTOM OF SEAL (FT)

37.5

DEPTH TOP OF PERVIOUS SECTION

40.0

TYPE OF PERVIOUS SECTION

sch 40 PVC

DESCRIBE OPENINGS

0.020 slot

PERVIOUS SECTION DIAMETER (IN)

2"

TYPE OF BACKFILL AROUND PERVIOUS SECTION

2 Sand

DEPTH BOTTOM OF PERVIOUS SECTION (FT)

50.0

DEPTH BOTTOM OF SAND COLUMN (FT)

50.0

ELEV./DEPTH TOP OF SEAL, IF ANY (FT)

50.0

TYPE OF SEAL

ELEV./DEPTH BOTTOM OF SEAL (FT)

70.0

TYPE OF BACKFILL BELOW PERVIOUS SECTION,
IF ANY

Bentonite pellets

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW406

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Jon Weeks

Inspected by David Sharpe

Date Started 3/2/17

Checked by Chris Morris

Date Completed 3/3/17

PG. 1 OF 1

Boring No. GPEC-MW406

Location Area 2

Project No. 125180-3-1302

SURVEY N 688047.5
DATUM E 651161.0

GROUND ELEVATION 7.44

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Silt and Sand

Gravel

Silty Sand

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	6"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	51.0
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	55.0
DEPTH TOP OF PERVIOUS SECTION	55.0
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	60.0
DEPTH BOTTOM OF SAND COLUMN (FT)	60.0
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	60.0
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	70.0
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW407

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Jon Weeks

Inspected by George Holmes

Date Started 3/1/17

Checked by Chris Morris

Date Completed 3/2/17

PG. 1 OF 1

Boring No. GPEC-MW407

Location Area 2

Project No. 125180-3-1302

SURVEY N 688153.0

DATUM E 651129.4

GROUND ELEVATION 7.26

Fill

Silt, sand and gravel

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	6"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	55.0
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	57.5
DEPTH TOP OF PERVIOUS SECTION	60.0
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	70.0
DEPTH BOTTOM OF SAND COLUMN (FT)	70.0
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	70.0
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	80.0
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW408

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade Drilling

Driller Jon Weeks

Inspected by David Sharpe

Date Started 3/2/17

Checked by Chris Morris

Date Completed 3/2/17

PG. 1 OF 1

Boring No. GPEC-MW408

Location Area 2

Project No. 125180-3-1302

SURVEY N 688217.6

DATUM E 651101.4

GROUND ELEVATION 6.93

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Silt, sand and gravel

Silty Sand

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	6"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	31.0
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	33.0
DEPTH TOP OF PERVIOUS SECTION	35.0
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	45.0
DEPTH BOTTOM OF SAND COLUMN (FT)	45.0
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	45.0
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	50.0
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets

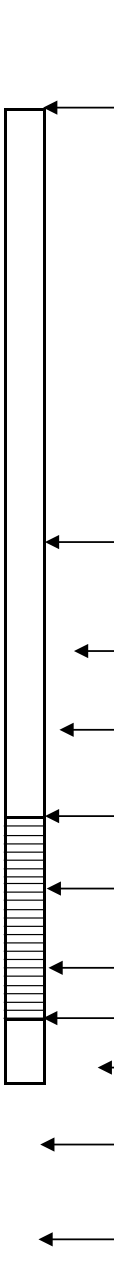
NOTES:



GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW409	
Project <u>Greenpoint Energy Center</u>				PG. <u>1</u> OF <u>1</u> Boring No. <u>GPEC-MW409</u> Location <u>Area 2</u> Project No. <u>125180-3-1302</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>Cascade Drilling</u>		Driller <u>Jon Weeks</u>			
Inspected by <u>George Holmes</u>		Date Started <u>3/8/17</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>3/8/17</u>			

SURVEY N <u>688274.2</u> DATUM E <u>651085.0</u>					LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	<u>0.0 (flush-mounted)</u>
GENERAL SOIL CONDITIONS (Not to Scale) GROUND ELEVATION <u>6.90</u> Fill Silt, sand and gravel Silty Sand Sand and Gravel					LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	<u>0.0 (flush-mounted)</u>
					THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	<u>1'</u>
					TYPE OF SURFACE SEAL (indicate any additional seals)	<u>#2 sand</u>
					ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING	<u>NA</u> <u>NA</u>
					DEPTH BOTTOM OF CASING (FT)	<u>1'</u>
					RISER PIPE DIAMETER(IN) TYPE OF RISER PIPE	<u>2"</u> <u>Sch 40 PVC</u>
					DIAMETER OF BOREHOLE (IN)	<u>6"</u>
					TYPE OF BACKFILL AROUND RISER PIPE	<u>cement/bentonite grout</u>
					DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT)	<u>36.0</u> <u>bentonite pellets</u> <u>38.0</u>
DEPTH TOP OF PERVIOUS SECTION TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN)	<u>40.0</u> <u>sch 40 PVC</u> <u>0.020 slot</u> <u>2"</u>					
TYPE OF BACKFILL AROUND PERVIOUS SECTION	<u># 2 Sand</u>					
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	<u>50.0</u>					
DEPTH BOTTOM OF SAND COLUMN (FT)	<u>50.0</u>					
ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT)	<u>50.0</u> <u></u> <u>80.0</u>					
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	<u>Bentonite pellets</u>					

GROUNDWATER OBSERVATION WELL REPORT				GPEC-RW409	
Project	Greenpoint Energy Center			PG. 1 OF 1 Boring No. <u>GPEC-RW409</u> Location <u>Area 2</u> Project No. <u>125180-3-1302</u>	
Location	Brooklyn, New York				
Client	National Grid				
Contractor	Cascade Drilling	Driller	Jon Weeks		
Inspected by	George Holmes	Date Started	3/8/17		
Checked by	Chris Morris	Date Completed	3/8/17		

SURVEY N 688280.5 DATUM E 651080.3 GROUND ELEVATION 6.71	GENERAL SOIL CONDITIONS (Not to Scale) Fill Silt, sand and gravel Silty sand	 LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) TYPE OF SURFACE SEAL (indicate any additional seals) ID OF SURFACE CASING (IN) TYPE OF SURFACE CASING DEPTH BOTTOM OF CASING (FT) RISER PIPE DIAMETER (IN) TYPE OF RISER PIPE DIAMETER OF BOREHOLE (IN) TYPE OF BACKFILL AROUND RISER PIPE DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL DEPTH BOTTOM OF SEAL (FT) DEPTH TOP OF PERVIOUS SECTION TYPE OF PERVIOUS SECTION DESCRIBE OPENINGS PERVIOUS SECTION DIAMETER (IN) TYPE OF BACKFILL AROUND PERVIOUS SECTION DEPTH BOTTOM OF PERVIOUS SECTION (FT) DEPTH BOTTOM OF SUMP (FT) ELEV./DEPTH TOP OF SEAL, IF ANY (FT) TYPE OF SEAL ELEV./DEPTH BOTTOM OF SEAL (FT) TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY 0.0 (flush-mounted) 0.0 (flush-mounted) 1' #2 sand NA NA 1' 6" Sch 40 PVC 6" cement/bentonite grout 20.5 bentonite pellets 23.0 29.0 SS 0.020 slot 6" # 2 Sand 39.0 44.0 39.0 Bentonite slurry 44.0 Bentonite pellets	
NOTES:			

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW410	
Project	Greenpoint Energy Center			PG. <u>1</u> OF <u>1</u>	
Location	Brooklyn, New York			Boring No.	GPEC-MW410
Client	National Grid			Location	Area 2
Contractor	Cascade Drilling	Driller	Jon Weeks		
Inspected by	George Holmes	Date Started	3/8/17		
Checked by	Chris Morris	Date Completed	3/8/17	Project No.	125180-3-1302

SURVEY N 688320.9 DATUM E 651067.5 GROUND ELEVATION 6.46	Fill Silt, sand and gravel Silty Sand		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border-bottom: 1px solid black;">LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">0.0 (flush-mounted)</td> </tr> <tr> <td style="border-bottom: 1px solid black;">LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">0.0 (flush-mounted)</td> </tr> <tr> <td style="border-bottom: 1px solid black;">THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">1'</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF SURFACE SEAL (indicate any additional seals)</td> <td style="border-bottom: 1px solid black; text-align: right;">#2 sand</td> </tr> <tr> <td style="border-bottom: 1px solid black;">ID OF SURFACE CASING (IN)</td> <td style="border-bottom: 1px solid black; text-align: right;">NA</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF SURFACE CASING</td> <td style="border-bottom: 1px solid black; text-align: right;">NA</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DEPTH BOTTOM OF CASING (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">1'</td> </tr> <tr> <td style="border-bottom: 1px solid black;">RISER PIPE DIAMETER (IN)</td> <td style="border-bottom: 1px solid black; text-align: right;">2"</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF RISER PIPE</td> <td style="border-bottom: 1px solid black; text-align: right;">Sch 40 PVC</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DIAMETER OF BOREHOLE (IN)</td> <td style="border-bottom: 1px solid black; text-align: right;">6"</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF BACKFILL AROUND RISER PIPE</td> <td style="border-bottom: 1px solid black; text-align: right;">cement/bentonite grout</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">20.5</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF SEAL</td> <td style="border-bottom: 1px solid black; text-align: right;">bentonite pellets</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DEPTH BOTTOM OF SEAL (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">23.0</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DEPTH TOP OF PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; text-align: right;">25.0</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; text-align: right;">sch 40 PVC</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DESCRIBE OPENINGS</td> <td style="border-bottom: 1px solid black; text-align: right;">0.020 slot</td> </tr> <tr> <td style="border-bottom: 1px solid black;">PERVIOUS SECTION DIAMETER (IN)</td> <td style="border-bottom: 1px solid black; text-align: right;">2"</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF BACKFILL AROUND PERVIOUS SECTION</td> <td style="border-bottom: 1px solid black; text-align: right;"># 2 Sand</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DEPTH BOTTOM OF PERVIOUS SECTION (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">35.0</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DEPTH BOTTOM OF SAND COLUMN (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">35.0</td> </tr> <tr> <td style="border-bottom: 1px solid black;">ELEV./DEPTH TOP OF SEAL, IF ANY (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">35.0</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF SEAL</td> <td style="border-bottom: 1px solid black; text-align: right;"></td> </tr> <tr> <td style="border-bottom: 1px solid black;">ELEV./DEPTH BOTTOM OF SEAL (FT)</td> <td style="border-bottom: 1px solid black; text-align: right;">55.0</td> </tr> <tr> <td style="border-bottom: 1px solid black;">TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY</td> <td style="border-bottom: 1px solid black; text-align: right;">Bentonite pellets</td> </tr> </table>	LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)	LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0 (flush-mounted)	THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'	TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand	ID OF SURFACE CASING (IN)	NA	TYPE OF SURFACE CASING	NA	DEPTH BOTTOM OF CASING (FT)	1'	RISER PIPE DIAMETER (IN)	2"	TYPE OF RISER PIPE	Sch 40 PVC	DIAMETER OF BOREHOLE (IN)	6"	TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout	DEPTH TOP OF SEAL, IF ANY (FT)	20.5	TYPE OF SEAL	bentonite pellets	DEPTH BOTTOM OF SEAL (FT)	23.0	DEPTH TOP OF PERVIOUS SECTION	25.0	TYPE OF PERVIOUS SECTION	sch 40 PVC	DESCRIBE OPENINGS	0.020 slot	PERVIOUS SECTION DIAMETER (IN)	2"	TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand	DEPTH BOTTOM OF PERVIOUS SECTION (FT)	35.0	DEPTH BOTTOM OF SAND COLUMN (FT)	35.0	ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	35.0	TYPE OF SEAL		ELEV./DEPTH BOTTOM OF SEAL (FT)	55.0	TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets
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NOTES:																																																					

GROUNDWATER OBSERVATION WELL REPORT				GPEC-MW502	
Project <u>Greenpoint Energy Center</u>				PG. 1 OF 1 Boring No. <u>GPEC-SB502</u> Location <u>Area 6</u> Project No. <u>125180-3-1302</u>	
Location <u>Brooklyn, New York</u>					
Client <u>National Grid</u>					
Contractor <u>ADT</u>		Driller <u>Dave Moon</u>			
Inspected by <u>George Holmes</u>		Date Started <u>1/12/18</u>			
Checked by <u>Chris Morris</u>		Date Completed <u>1/15/18</u>			

SURVEY N <u>688860.14</u> DATUM E <u>648952.76</u>		GROUND ELEVATION <u>56.45</u> Fill Silty Sand/Silt Gravel Sand Clay LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT) <u>3.0' (stick-up)</u> LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT) <u>3.08'</u> THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT) <u>1'</u> TYPE OF SURFACE SEAL (indicate any additional seals) <u>#2 sand</u> ID OF SURFACE CASING (IN) <u>4"</u> TYPE OF SURFACE CASING <u>steel casing</u> DEPTH BOTTOM OF CASING (FT) <u>1'</u> RISER PIPE DIAMETER(IN) <u>2"</u> TYPE OF RISER PIPE <u>Sch 40 PVC</u> DIAMETER OF BOREHOLE (IN) <u>5"</u> TYPE OF BACKFILL AROUND RISER PIPE <u>cement/bentonite grout</u> DEPTH TOP OF SEAL, IF ANY (FT) <u>99'</u> TYPE OF SEAL <u>bentonite pellets</u> DEPTH BOTTOM OF SEAL (FT) <u>101'</u> DEPTH TOP OF PERVIOUS SECTION <u>103'</u> TYPE OF PERVIOUS SECTION <u>sch 40 PVC</u> DESCRIBE OPENINGS <u>0.020 slot</u> PERVIOUS SECTION DIAMETER (IN) <u>2"</u> TYPE OF BACKFILL AROUND PERVIOUS SECTION <u># 2 Sand</u> DEPTH BOTTOM OF PERVIOUS SECTION (FT) <u>113'</u> DEPTH BOTTOM OF SAND COLUMN (FT) <u>115'</u> ELEV./DEPTH TOP OF SEAL, IF ANY (FT) <u>115'</u> TYPE OF SEAL <u>Bentonite pellets</u> ELEV./DEPTH BOTTOM OF SEAL (FT) <u>120'</u> TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY <u>Bentonite pellets</u>	
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GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW505D

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor ADT

Driller Dave Moon

Inspected by George Holmes

Date Started 1/8/18

Checked by Chris Morris

Date Completed 1/10/18

PG. 1 OF 1

Boring No. GPEC-SB505

Location Area 6

Project No. 125180-3-1302

SURVEY N 688499.64

DATUM E 648740.14

GROUND ELEVATION 49.45

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

Silty Sand/Silt

Sand

Silty Sand

Clay

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)

3.0' (stick-up)

LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)

2.86'

THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)

1'

TYPE OF SURFACE SEAL (indicate any additional seals)

#2 sand

ID OF SURFACE CASING (IN)
TYPE OF SURFACE CASING

4"

steel casing

DEPTH BOTTOM OF CASING (FT)

1'

RISER PIPE DIAMETER(IN)
TYPE OF RISER PIPE

2"

Sch 40 PVC

DIAMETER OF BOREHOLE (IN)

5"

TYPE OF BACKFILL AROUND RISER PIPE

cement/bentonite grout

DEPTH TOP OF SEAL, IF ANY (FT)

102'

TYPE OF SEAL

bentonite pellets

DEPTH BOTTOM OF SEAL (FT)

105'

DEPTH TOP OF PERVIOUS SECTION

107'

TYPE OF PERVIOUS SECTION

sch 40 PVC

DESCRIBE OPENINGS

0.020 slot

PERVIOUS SECTION DIAMETER (IN)

2"

TYPE OF BACKFILL AROUND PERVIOUS SECTION

2 Sand

DEPTH BOTTOM OF PERVIOUS SECTION (FT)

117'

DEPTH BOTTOM OF SAND COLUMN (FT)

117'

ELEV./DEPTH TOP OF SEAL, IF ANY (FT)

117'

TYPE OF SEAL

ELEV./DEPTH BOTTOM OF SEAL (FT)

120'

TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY

Bentonite pellets

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW505S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor ADT

Driller Dave Moon

Inspected by George Holmes

Date Started 4/23/2019

Checked by Chris Morris

Date Completed 4/23/2019

PG. 1 OF 1

Boring No. GPEC-MW505S

Location Area 6

Project No. 125180-3-1302

SURVEY N 688504.89

DATUM E 648736.87

GROUND ELEVATION 49.55

Fill

Silty Sand/Silt

GENERAL SOIL CONDITIONS (Not to Scale)

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	3.0' (stick-up)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	2.45'
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	4"
TYPE OF SURFACE CASING	steel casing
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	5"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	39
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	41
DEPTH TOP OF PERVIOUS SECTION	43
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	53
DEPTH BOTTOM OF SAND COLUMN (FT)	55
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW513D

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor ADT

Driller Dave Moon

Inspected by George Holmes

Date Started 1/18/18

Checked by Chris Morris

Date Completed 1/19/18

PG. 1 OF 1

Boring No. GPEC-SB513

Location Area 9

Project No. 125180-3-1302

SURVEY N 687846.22

DATUM E 648475.22

GROUND
ELEVATION 33.5

GENERAL SOIL CONDITIONS (Not to Scale)

Sand/Silty Sand

Clay

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	5"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	73'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	75'
DEPTH TOP OF PERVIOUS SECTION	78'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	88'
DEPTH BOTTOM OF SAND COLUMN (FT)	89'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	89'
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	100'
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	Bentonite pellets

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW513S

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor ADT

Driller Dave Moon

Inspected by George Holmes

Date Started 4/25/2019

Checked by Chris Morris

Date Completed 4/25/2019

PG. 1 OF 1

Boring No. GPEC-MW513S

Location Area 9

Project No. 125180-3-1302

SURVEY N 687850.42
DATUM E 648488.24

GROUND
ELEVATION 33.9

GENERAL SOIL CONDITIONS (Not to Scale)

Sand/Silty Sand

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	5"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	23
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	25
DEPTH TOP OF PERVIOUS SECTION	27
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	37
DEPTH BOTTOM OF SAND COLUMN (FT)	39
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW514

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor ADT

Driller Dave Moon

Inspected by George Holmes

Date Started 1/19/18

Checked by Chris Morris

Date Completed 1/23/18

PG. 1 OF 1

Boring No. GPEC-SB514

Location Area 9

Project No. 125180-3-1302

SURVEY N 688116.55

DATUM E 648384.72

GROUND ELEVATION 38.38

GENERAL SOIL CONDITIONS (Not to Scale)

Silty Sand

Gravel

Silty Sand

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	5"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	25'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	27'
DEPTH TOP OF PERVIOUS SECTION	30'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	40'
DEPTH BOTTOM OF SAND COLUMN (FT)	42'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	42'
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	140'
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	cement/bentonite grout

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW537

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor ADT

Driller Greg Rivera

Inspected by George Holmes

Date Started 4/8/2019

Checked by Chris Morris

Date Completed 4/9/2019

PG. 1 OF 1

Boring No. GPEC-SB537

Location Area 8

Project No. 125180-3-1302

SURVEY N 688989.20

DATUM E 649348.38

GROUND ELEVATION 44.46

GENERAL SOIL CONDITIONS (Not to Scale)

Sand/Silty Sand

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	5"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	38
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	40
DEPTH TOP OF PERVIOUS SECTION	42
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	52
DEPTH BOTTOM OF SAND COLUMN (FT)	54
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	54
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	110
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	cement/bentonite grout

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW538

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor ADT

Driller Greg Rivera

Inspected by George Holmes

Date Started 4/9/2019

Checked by Chris Morris

Date Completed 4/10/2019

PG. 1 OF 1

Boring No. GPEC-SB538

Location Area 8

Project No. 125180-3-1302

SURVEY N 689102.27

DATUM E 649634.83

GROUND ELEVATION 31.92

GENERAL SOIL CONDITIONS (Not to Scale)

Sand/Silty Sand

Sandy Silt

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	5"
TYPE OF BACKFILL AROUND RISER PIPE	cement/bentonite grout
DEPTH TOP OF SEAL, IF ANY (FT)	24
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	26
DEPTH TOP OF PERVIOUS SECTION	28
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	38
DEPTH BOTTOM OF SAND COLUMN (FT)	40
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	40
TYPE OF SEAL	
ELEV./DEPTH BOTTOM OF SEAL (FT)	140
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	cement/bentonite grout

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW902

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade

Driller Evan Moraitis

Inspected by Tom Johansen

Date Started 6/12/2019

Checked by George Holmes

Date Completed 6/12/2019

PG. 1 OF 1

Boring No. GPEC-MW902

Location Area 5

Project No. 125180-5-1

SURVEY N 686821.634
DATUM E 648958.742

GROUND
ELEVATION 15.04

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3.75"
TYPE OF BACKFILL AROUND RISER PIPE	bentonite pellets
DEPTH TOP OF SEAL, IF ANY (FT)	4'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	6'
DEPTH TOP OF PERVIOUS SECTION	8'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	18'
DEPTH BOTTOM OF SAND COLUMN (FT)	18'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW904

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade

Driller Evan Moraitis

Inspected by Tom Johansen

Date Started 6/12/2019

Checked by George Holmes

Date Completed 6/12/2019

PG. 1 OF 1

Boring No. GPEC-MW904

Location Area 5

Project No. 125180-5-1

SURVEY N 686895.08
DATUM E 648933.745

GROUND
ELEVATION 16.1

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3.75"
TYPE OF BACKFILL AROUND RISER PIPE	bentonite pellets
DEPTH TOP OF SEAL, IF ANY (FT)	4'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	6'
DEPTH TOP OF PERVIOUS SECTION	8'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	18'
DEPTH BOTTOM OF SAND COLUMN (FT)	18'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:



GROUNDWATER OBSERVATION WELL REPORT

GPEC-MW905

Project Greenpoint Energy Center

Location Brooklyn, New York

Client National Grid

Contractor Cascade

Driller Evan Moraitis

Inspected by Tom Johansen

Date Started 6/12/2019

Checked by George Holmes

Date Completed 6/12/2019

PG. 1 OF 1

Boring No. GPEC-MW905

Location Area 5

Project No. 125180-5-1

SURVEY N 686804.37
DATUM E 648929.62

GROUND
ELEVATION 15.42

GENERAL SOIL CONDITIONS (Not to Scale)

Fill

LENGTH OF SURFACE CASING ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
LENGTH OF RISER PIPE ABOVE GROUND SURFACE (FT)	0.0' (flush-mounted)
THICKNESS OF SURFACE SEAL BELOW GROUND SURFACE, IF ANY (FT)	1'
TYPE OF SURFACE SEAL (indicate any additional seals)	#2 sand
ID OF SURFACE CASING (IN)	NA
TYPE OF SURFACE CASING	NA
DEPTH BOTTOM OF CASING (FT)	1'
RISER PIPE DIAMETER(IN)	2"
TYPE OF RISER PIPE	Sch 40 PVC
DIAMETER OF BOREHOLE (IN)	3.75"
TYPE OF BACKFILL AROUND RISER PIPE	bentonite pellets
DEPTH TOP OF SEAL, IF ANY (FT)	4'
TYPE OF SEAL	bentonite pellets
DEPTH BOTTOM OF SEAL (FT)	6'
DEPTH TOP OF PERVIOUS SECTION	8'
TYPE OF PERVIOUS SECTION	sch 40 PVC
DESCRIBE OPENINGS	0.020 slot
PERVIOUS SECTION DIAMETER (IN)	2"
TYPE OF BACKFILL AROUND PERVIOUS SECTION	# 2 Sand
DEPTH BOTTOM OF PERVIOUS SECTION (FT)	18'
DEPTH BOTTOM OF SAND COLUMN (FT)	18'
ELEV./DEPTH TOP OF SEAL, IF ANY (FT)	NA
TYPE OF SEAL	NA
ELEV./DEPTH BOTTOM OF SEAL (FT)	NA
TYPE OF BACKFILL BELOW PERVIOUS SECTION, IF ANY	NA

NOTES:

