

Appendix L Test Pit Logs

Test Pit Log

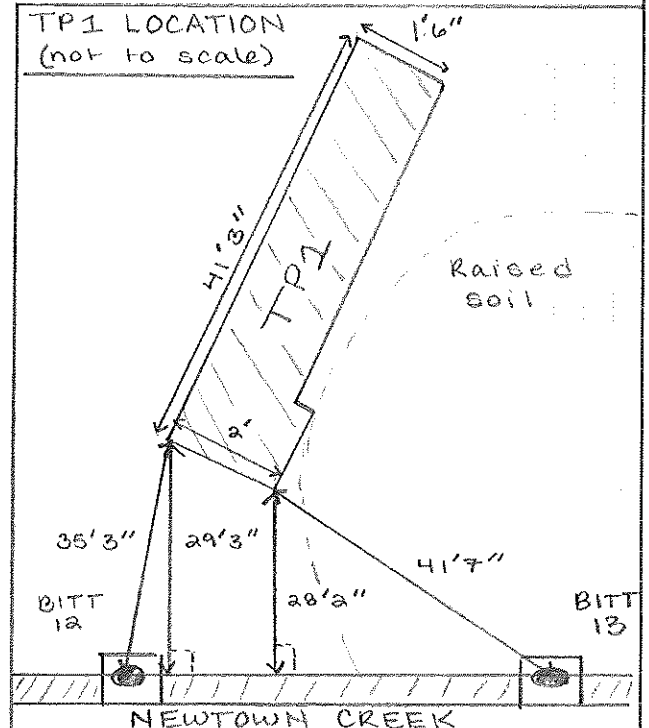
TP1

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather cloudy / clear 35°F-45°F

Page 1 of 3

Location NE of Stores Bldg
between Mooring Bitts
12 and 13
 Ground El. ~7.62' to 7.70'
 Datum NAVD 88
 GEI Proj. No. 093260-1-1101
 Date 01/18/10 - 01/20/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
0.5			(0-0.5') ASPHALT
1			(0.5'-2.5') Silty Sand with Gravel (SM); ~50% F to M sand, ~35% F to C subangular gravel, up to 2" ϕ max, ~15% silt; also roots, bricks, concrete fragments, wood, metal; MISC FILL mostly gray to black
2			
2.5			(2.5'-6') Silty Sand w/ Gravel (SM); ~60% F to M sand, ~30% silt, ~10% F to C subangular gravel, up to 2" ϕ max; also small to large cobbles, bricks, concrete frags., metal, wood; MISC FILL, tan to brown
3			
3.5			
4			
4.5			
5			
5.5			
6	Bottom of test pit @ ~6 feet		



Notes:

- Groundwater fluctuated with tide; observed @ highest during 01/19/10 high tide at 4'10" bgs
- TP1 backfilled w/ excavated soils with asphalt and large cobbles and concrete fragments removed
- Wood 2" x 4" backfilled in to mark, 20" steel line (salt water)

Pit Dimensions (ft)

Length 41'3"

Width ~1'6"

Depth ~6'



Test Pit Log

TP1

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach Vacmasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather cloudy/clear 35°F - 45°F

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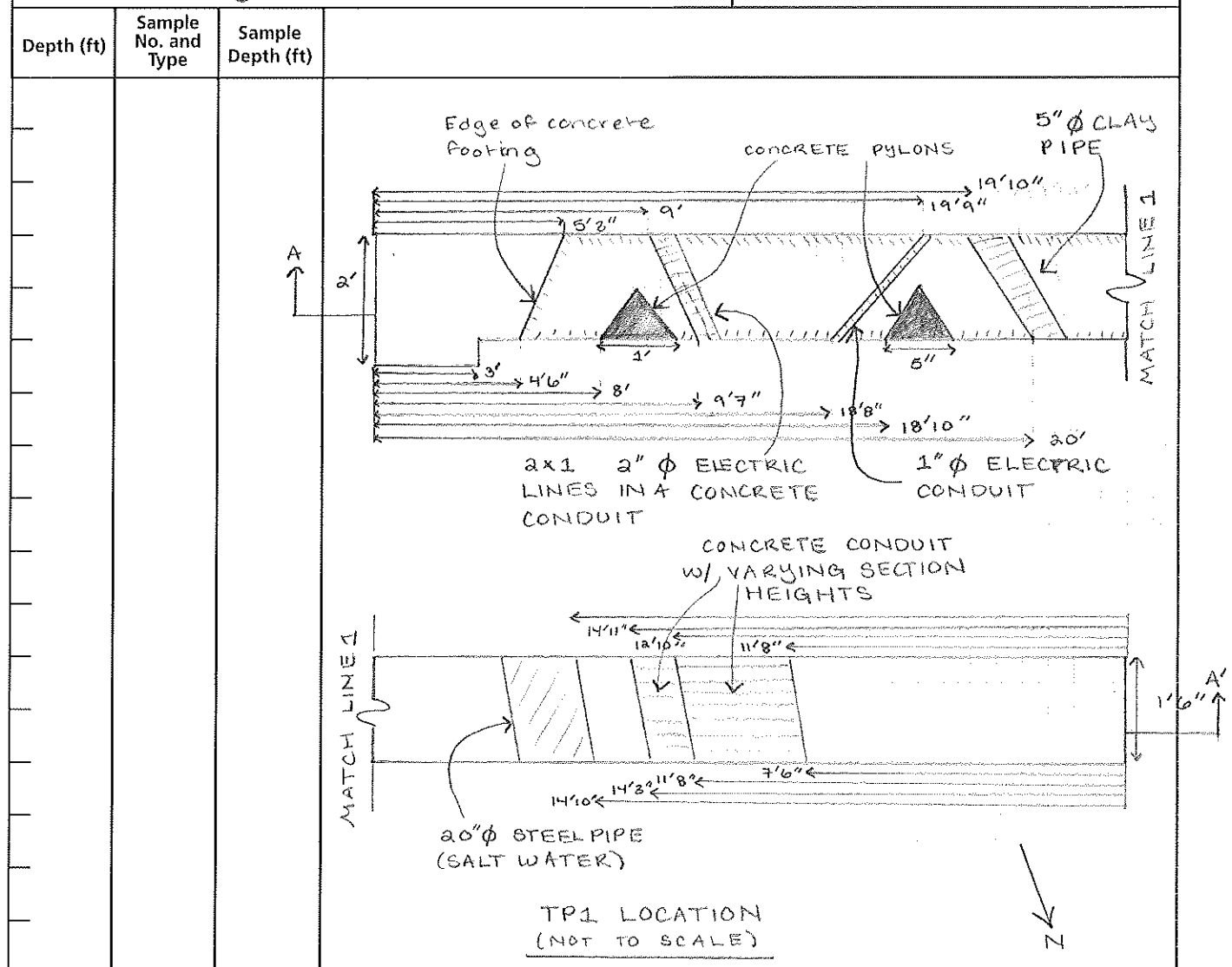
Location see page 1

Ground El. ~ 7.62' to 7.70'

Datum NAVD 88

GEI Proj. No. 093260-1-1101

Date 01/18/10 - 01/20/10



Notes:

- NW edge of concrete footing was not located; likely ends East of 20" ϕ steel pipe and concrete conduit as it was not located at $\leq 5'8"$ bgs on west side

Pit Dimensions (ft)

Length 41'3"

Width ~1'6"

Depth ~6'

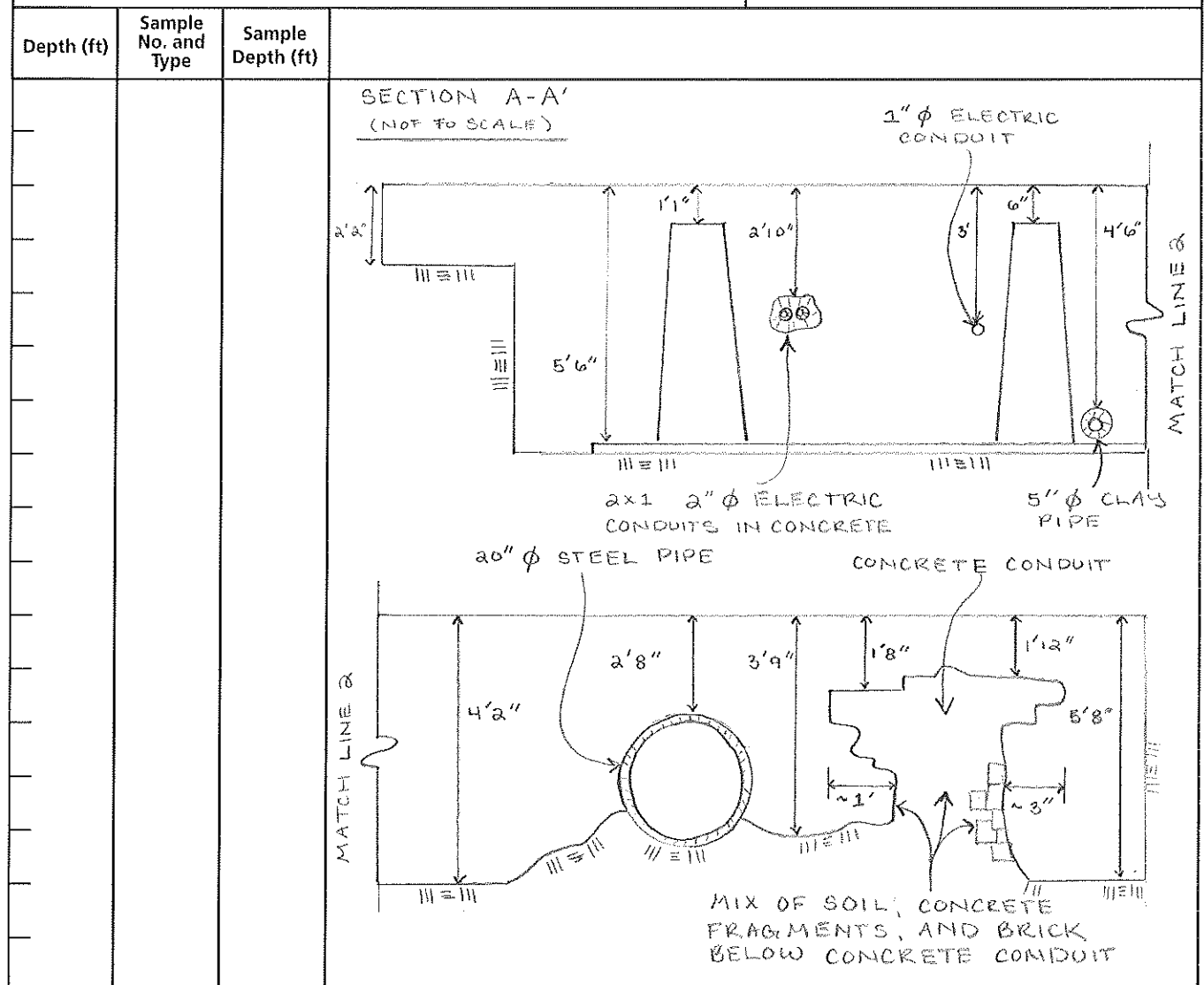


Test Pit Log

TP1

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather cloudy/clear 35°F-45°F

Page 3 of 3
 Location see page 1
 Ground El. ~ 7.62' to 7.70'
 Datum NAVD 88
 GEI Proj. No. 093260-1-1101
 Date 01/18/10 - 01/20/10



Notes:

Pit Dimensions (ft)

Length 41'3"

Width ~1'6"

Depth ~6'



Test Pit Log

TP2

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather partly cloudy, windy ~35°F

Page 1 of 3

Location East of Stores
Bldg. and west of
Mooring Bitt 11
 Ground El. ~7.0' to 9.3'
 Datum NAVD 88
 GEI Proj. No. 093260-1-1101
 Date 01/21/10 - 01/22/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
1			(0-2") Coarse Gravel up to 1.5" ϕ , FILL above a geotextile fabric
2			(2"-6") Silty Sand w/ Gravel (SM); ~50% F to M sand, ~30% F to C subangular gravel, 2" ϕ max., ~20% silt, FILL
3			(6"-5'3") Narrowly Graded Sand with Gravel (SP); ~75% M sand, $\leq$ 5% fines, ~20% C gravel, cobbles, asphalt, bricks, wood, metal; FILL, tan to brown
4			TP2 LOCATION (NOT TO SCALE) BOLLARD (RIGHT OF FIRE HYDRANT) TP2 29'6" 2' 11'7" FENCE FIRE DEPT. MANIFOLD BITT 11 28'6" 28'2" 31'3" 68'1" BITT 12 35'5" CONCRETE SIGN FOOTING NEWTOWN CREEK
5			

Bottom of test pit at ~5.3' bgs

Notes:

- No groundwater observed in test pit.
- TP2 backfilled w/ excavated soils w/ bricks and large concrete removed; geotextile and gravel also backfilled
- 2 wood 2" x 4"s backfilled in to mark 12" and 20" metal lines (SALT water)

Pit Dimensions (ft)

Length 29'6"
 Width ~2'
 Depth 3'5" to 5'9"



Test Pit Log

TP2

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather partly cloudy, windy ~35°F

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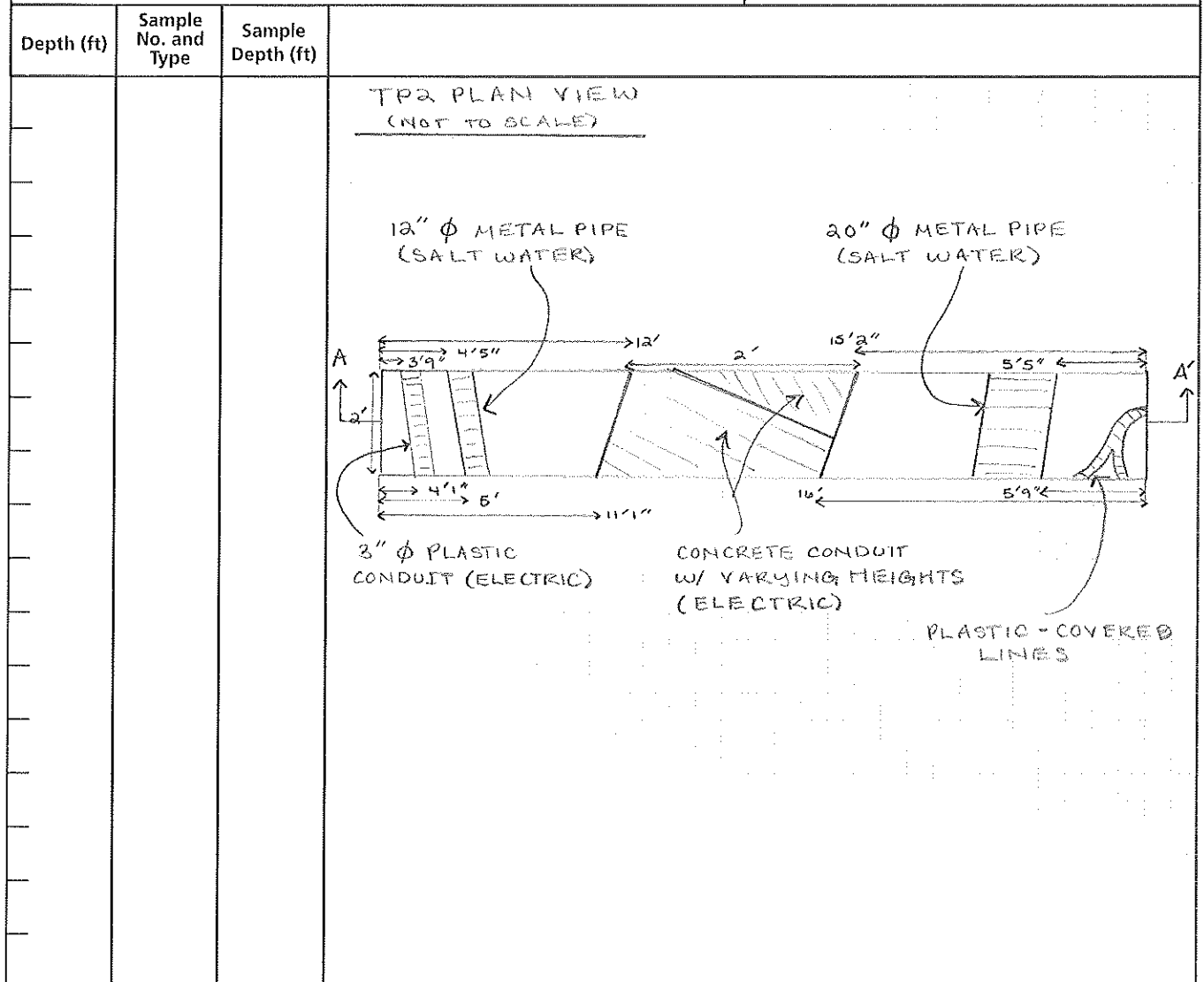
Location see page 1

Ground El. ~ 7.0' to 9.3'

Datum NAVD 88

GEI Proj. No. 093260-1-1101

Date 01/21/10 - 01/22/10



Notes:

Pit Dimensions (ft)

Length 29'6"

Width ~ 2'

Depth 3'5" - 5'3"

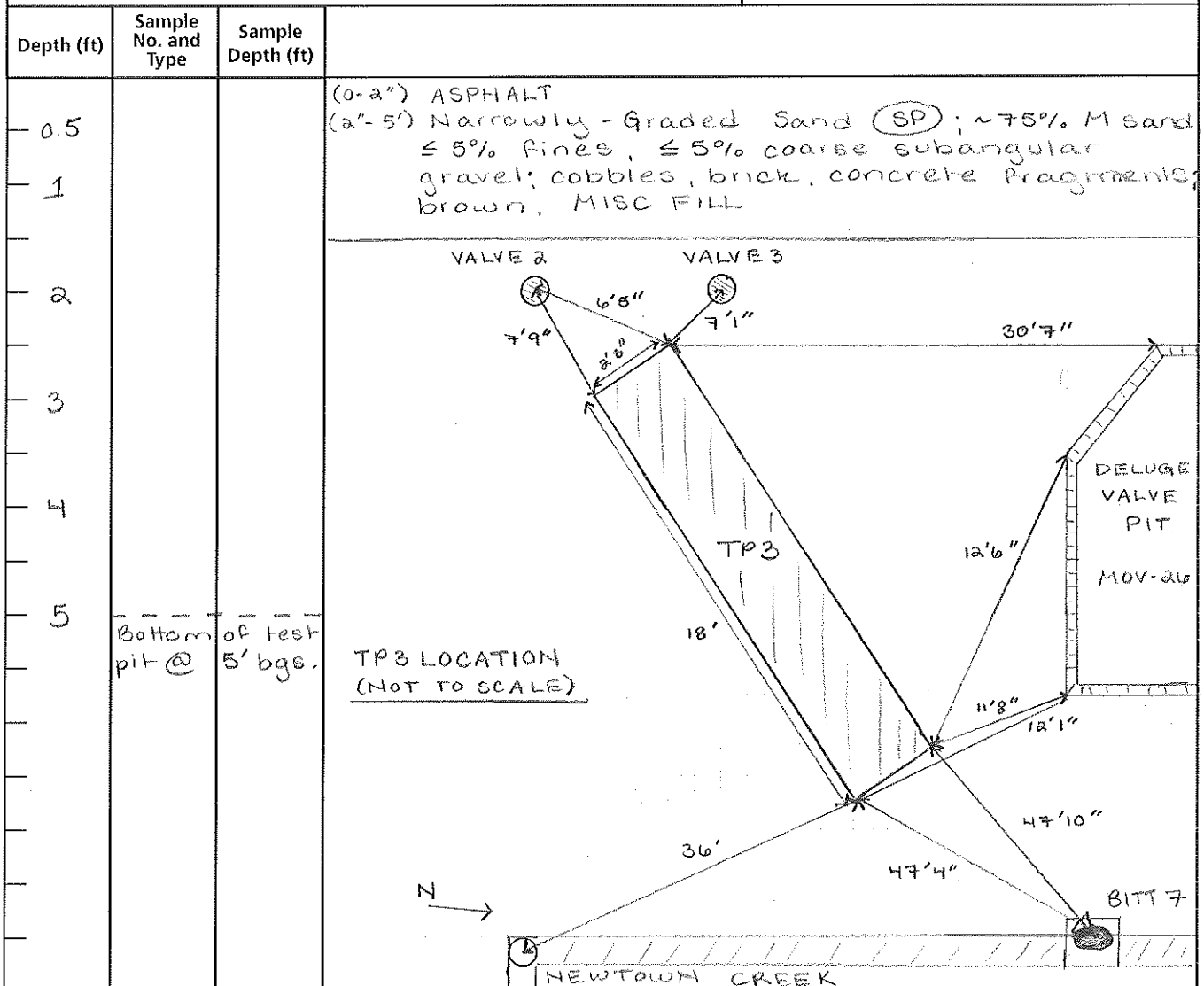


Test Pit Log

TP3

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather rain, ~60°F

Page 1 of 3
 Location East of Accom.
Bldg. and West of Bitt
7 on Bulkhead
 Ground El. ~6.9' to 8'
 Datum NAVD 88
 GEI Proj. No. 093260-1-1101
 Date 01/25/10



Notes: bgs = below ground surface

- No groundwater observed in test pit.
- TP3 backfilled w/ excavated soils w/ asphalt swedges or removed
- 2 wood 2"x4"s backfilled in to mark 20" and 24" metal pipes (salt water)

Pit Dimensions (ft)

Length 18'

Width 2'3"

Depth 4' to 5'



Test Pit Log

TP3

Project Greenpoint Energy Center

Page 2 of 3

Barrier Wall Design Utility Clearance

Location see page 1

City/Town Brooklyn, NY

Client National Grid

Contractor Zebra Environmental

Ground El. ~6.9' to 8'

Equipment/Reach VacMasters 1000 Series

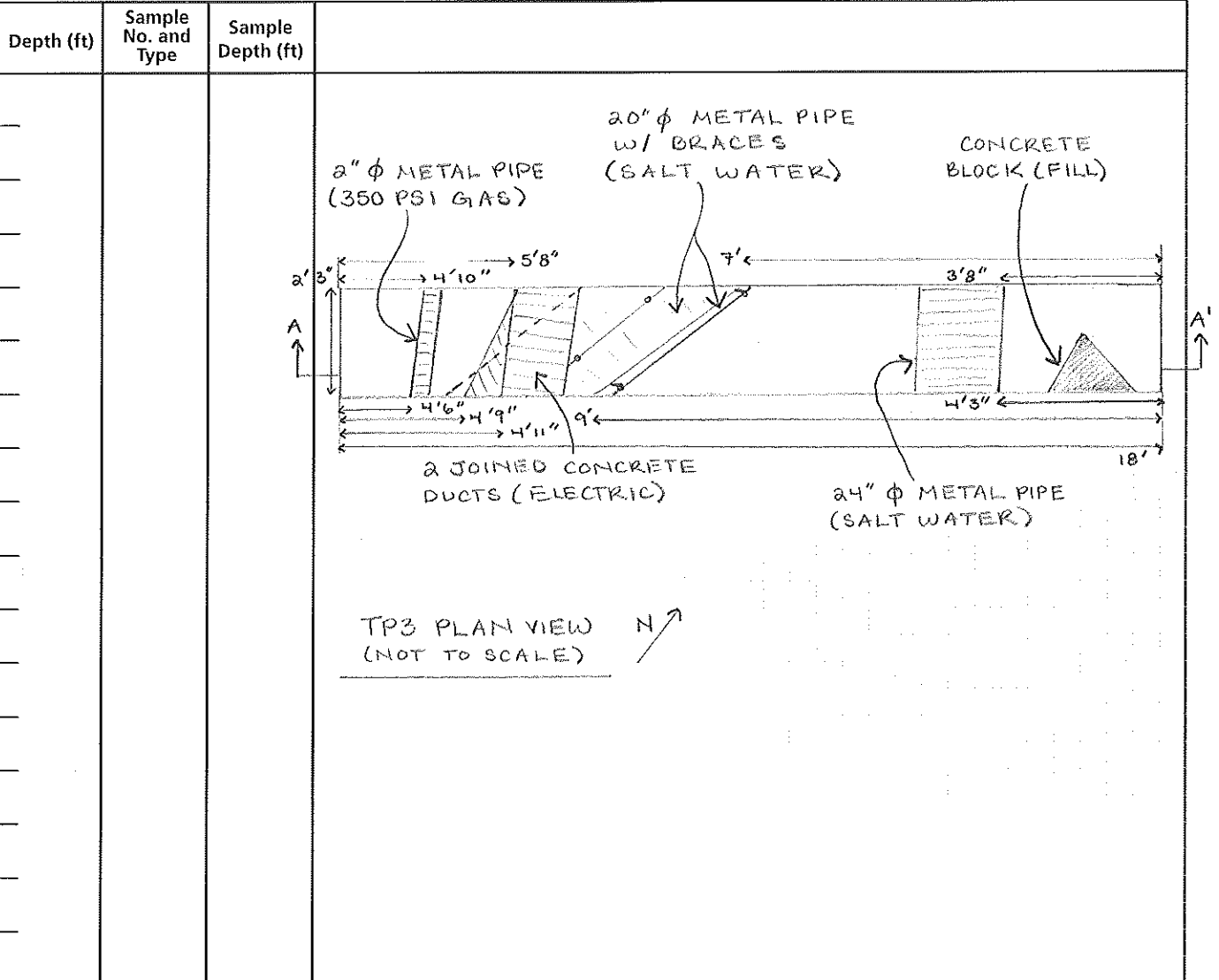
Datum NAVD 88

Operator Jose Garcia GEI Rep. J. Morin

GEI Proj. No. 093260-1-1101

Weather rain, ~60°F

Date 01/25/10



Notes:

Pit Dimensions (ft)

Length 18'

Width 2'3"

Depth 1' to 5'



Test Pit Log

TP3

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather rain, ~60°F

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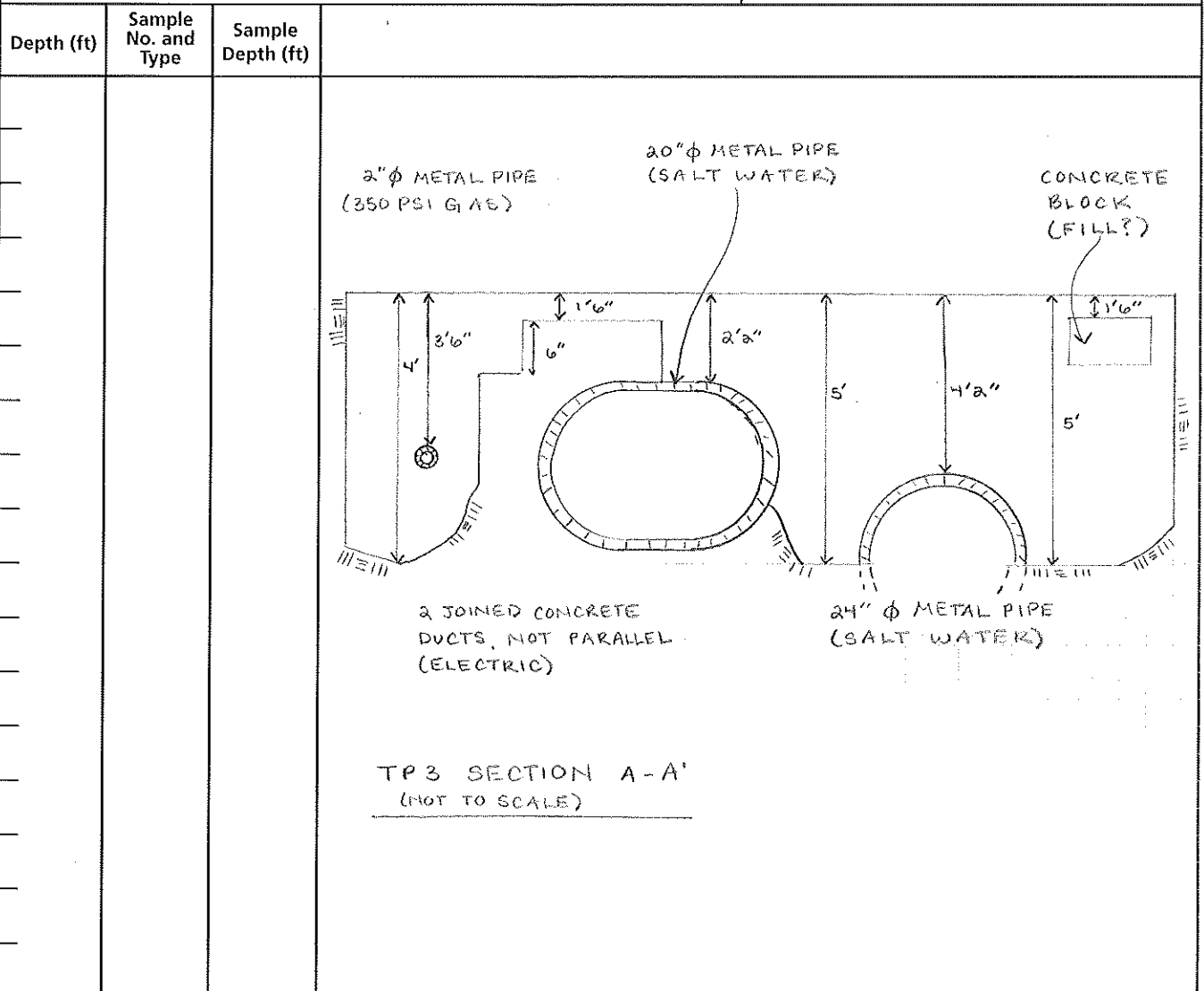
Location see page 1

Ground El. ~6.9' to 8'

Datum NAVD 88

GEI Proj. No. 093260-1-1101

Date 01/25/10



Notes:

Pit Dimensions (ft)

Length 18'

Width 2'3"

Depth 4' to 5'



Test Pit Log

TP4

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather partly cloudy, snow ~40°F

Page 1 of 3

Location East of Accom.
Bldg. running south to
Fire Dept. access gate
 Ground El. ~8.7'
 Datum NAVD 88
 GEI Proj. No. 093a60-1-1101
 Date 01/26/10 - 01/28/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
0.5			(0-2") ASPHALT
1			(2"-6") Concrete slab runs parallel to west side of test pit along entire length
2			(2"-6'4") Narrowly Graded Sand (SP); ~80% F to M sand, ≤ 5% fines, ≤ 5% coarse gravel; cobbles, brick, wood, concrete fragments, rebar; brown, MISC FILL
3			Diagram labels: FIRE DEPT GATE, ACCOMMODATIONS BUILDING, CONCRETE SLAB, TP4, VALVE PIT, MOV-28 & MOV-29, NEWTOWN CREEK, BITT 7. Dimensions: 52'10", 38'10", 43'8", 76'10", 44'1", 5'11".
4			
5			
6			
7			
			Bottom of test pit at 6'4" bgs MASRETH AVE

Notes: bgs = below ground surface

- No groundwater observed in test pit.
- TP4 backfilled w/ excavated soils with asphalt and large boulders removed.
- 2 wood 2"x4"s backfilled in to mark ^{Nedags of} 2 24" ϕ metal pipes (salt water)

Pit Dimensions (ft)

Length 43'3"

Width 2'

Depth ~ 5'8"



Test Pit Log

TP 4

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor Zebra Environmental
 Equipment/Reach VacMasters 1000 Series
 Operator Jose Garcia GEI Rep. J. Morin
 Weather partly cloudy, snow ~40°F

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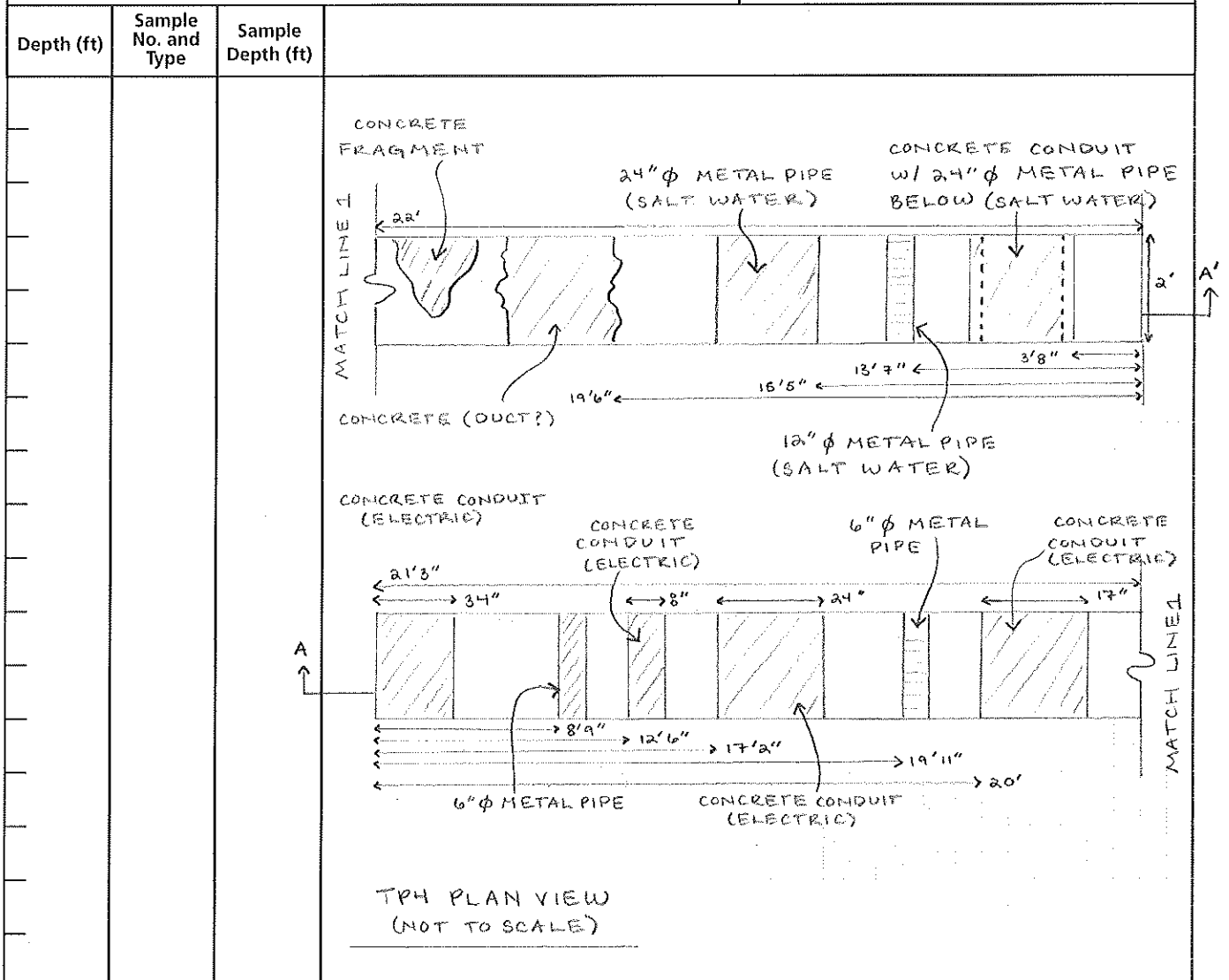
Location see page 1

Ground El. ~8.7'

Datum NAVD 88

GEI Proj. No. 093260-1-1101

Date 01/26/10 - 01/28/10



Notes:

Pit Dimensions (ft)

Length 43'3"

Width 2'

Depth ~5'8"



Test Pit Log

TP4

Project Greenpoint Energy Center

Page 3 of 3

Barrier Wall Design Utility Clearance

Location see page 1

City/Town Brooklyn, NY

Client National Grid

Contractor Zebra Environmental

Ground El. ~8.7'

Equipment/Reach VacMasters 1000 Series

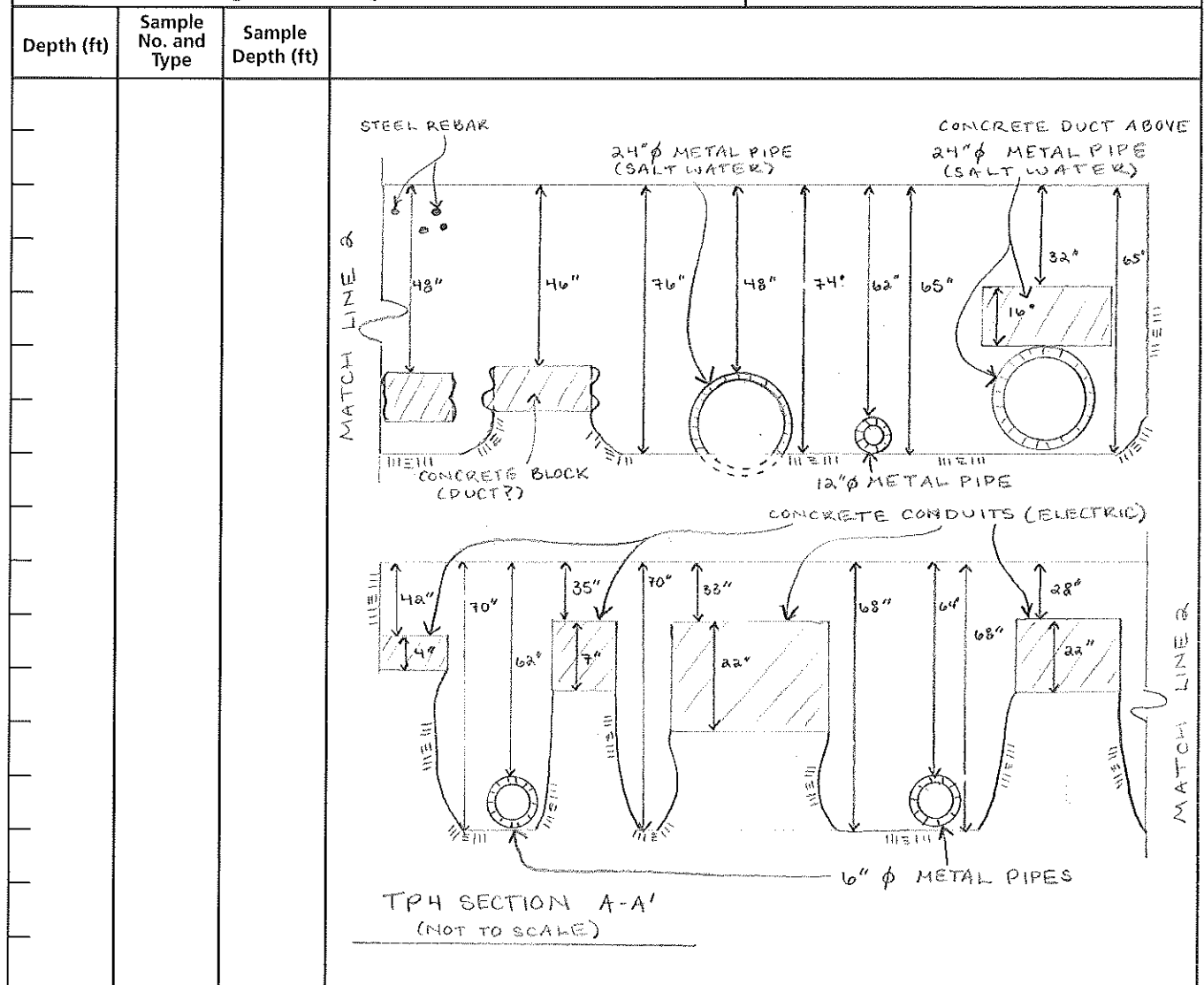
Datum NAVD 88

Operator Jose Garcia GEI Rep. J. Morin

GEI Proj. No. 093260-1-1101

Weather partly cloudy, snow ~40°F

Date 01/26/10 - 01/28/10



Notes:

Pit Dimensions (ft)

Length 43'3"

Width 2'

Depth ~5'8"



Test Pit Log

TP5

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor AWT Environmental Services
 Equipment/Reach Gruzzler 6" ϕ I.D.
 Operator Keith P. GEI Rep. J. Morin
 Weather clear to snowy 20°F - 35°F

Page 1 of 3
 Location NE of Accom.
Bldg. near MOV-26
and West of Bitt 7
 Ground El. ~6.6' to 8.3'
 Datum NAVD 88
 GEI Proj. No. 093260-1-1101
 Date 01/27/10 - 02/02/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
0.5			(0-6") ASPHALT above gravel layer.
1			(6"-6') Narrowly-Graded Sand (SP); ~90% F to M sand, $\leq 5\%$ Fines, $\leq 5\%$ F to coarse subangular gravel, 2" ϕ max; also bricks, cobbles, concrete & metal fragments, wood; MISC FILL, brown
2			
3			
4			
5			
6			
	Bottom of Test Pit @ 72" bgs.		

Notes:

- Groundwater observed @ 5'11" bgs on 02/02/10; not quite high tide.
- TP5 backfilled w/ excavated soils with asphalt removed. E edges
- 2 Wood 2"x4"s backfilled in to mark of 20" and 12" salt water lines

Pit Dimensions (ft)

Length 65'2"
 Width ~2'
 Depth ~6'

Test Pit Log

TP5

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor AWT Environmental Services
 Equipment/Reach Guzzler 6" ϕ 10.
 Operator Keith P. GEI Rep. J. Morin
 Weather Clear to snowy 20°F-35°F

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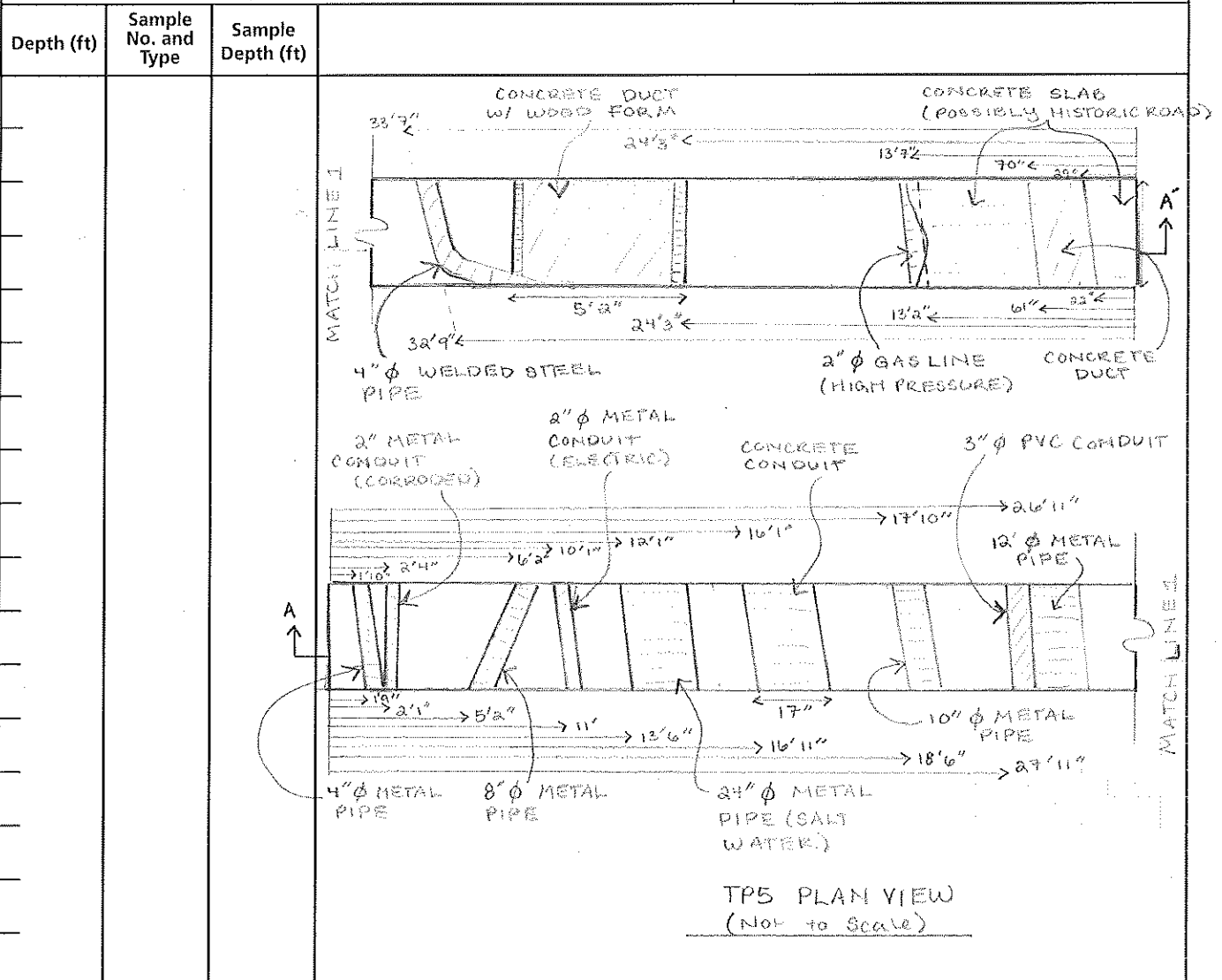
Location see page 1

Ground El. $\sim 6.6'$ to $8.7'$

Datum NAVD 88

GEI Proj. No. 048860-1-101

Date 01/27/10 - 02/02/10



Notes:

Pit Dimensions (ft)

Length 65'2"

Width $\sim 2'$

Depth $\sim 6'$



Test Pit Log

TP5

Project Greenpoint Energy Center

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Barrier Wall Design Utility Clearance

Location see page 1

City/Town Brooklyn, NY

Client National Grid

Contractor AWT Environmental Services

Ground El. ~6.6' to 8.7'

Equipment/Reach Guzzler 6" ϕ ID

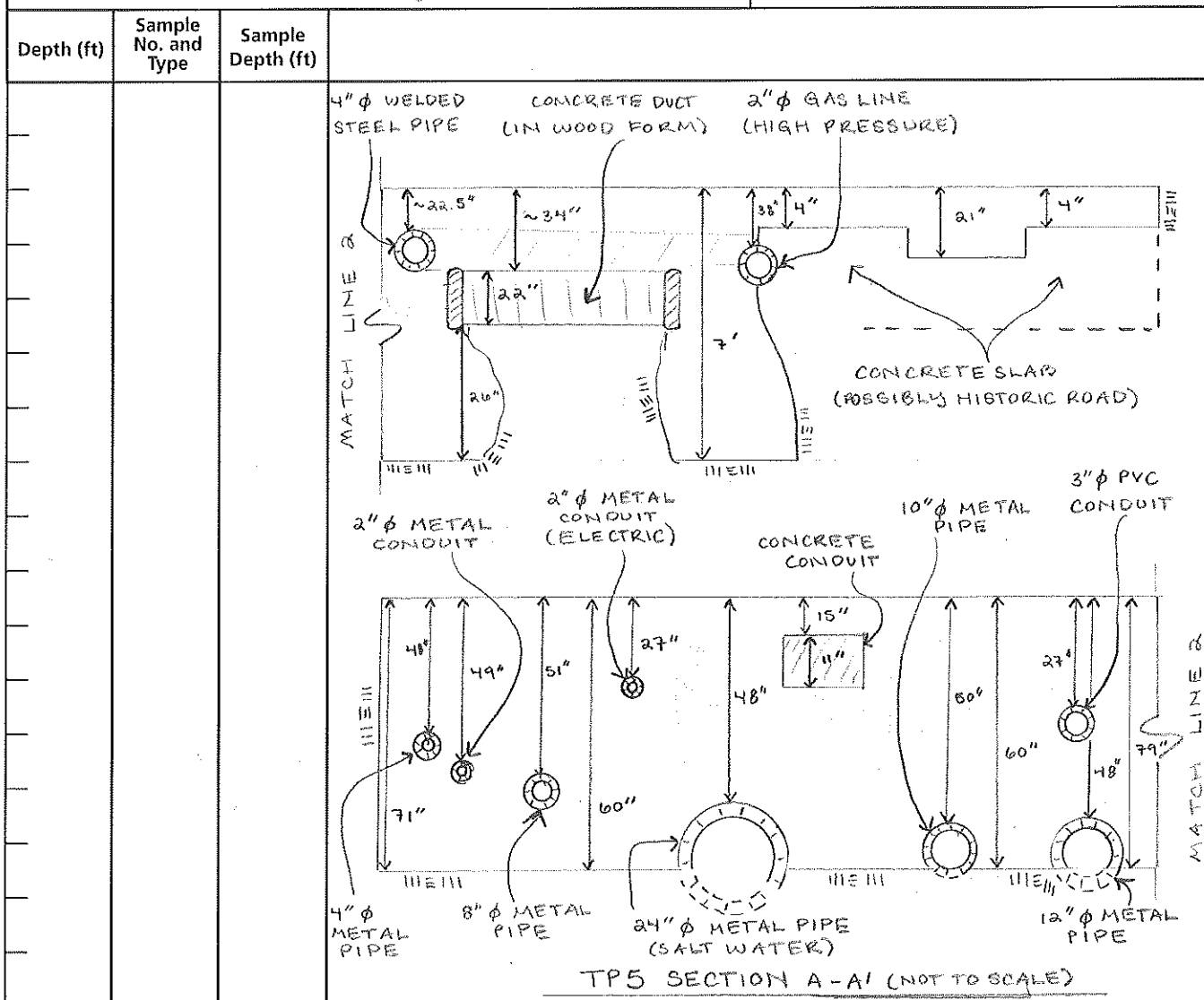
Datum NAYD 88

Operator Keith P. GEI Rep. J. Morin

GEI Proj. No. 093260-1-1102

Weather clear to snowy, ~20°F - 35°F

Date 01/27/10 - 02/02/10



Notes:

Pit Dimensions (ft)

Length 65' 2"

Width ~ 2'

Depth ~ 6'



Test Pit Log

TP6

Project Greenpoint Energy Center

Page 1 of 3

Barrier Wall Design Utility Clearance

City/Town Brooklyn, NY

Client National Grid

Contractor Zebra Environmental

Equipment/Reach VacMasters 1000 Series

Operator Jose Garcia GEI Rep. J. Morin

Weather clear to partly cloudy, ~30°F

Location South of Accom.

Bldg. running NE → SW to

Fence on Maspeth Ave

Ground El. ~9.5'

Datum NAVD 88

GEI Proj. No. 093a60-1-1101

Date 02/01/10 to 02/03/10 and
02/05/10 and 02/08/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
1			(0'-2") Narrowly Graded Gravel (GP) with sand; ~90% M to C subangular gravel, ~10% F to M sand; also organics
2			(2"-9') Narrowly Graded sand w/ silt (SP-SM); ~90% F to M sand, ~10% silt; also cobbles, brick, metal, and concrete fragments; tan to brown, MISC FILL
3			
4			
5			
6			
7			
8			
9			
	Bottom of test pit at 9' bgs.		HEDGE TP6 LOCATION (NOT TO SCALE) TP6 46'5" 28" 9' MASPETH AVE 30'6" 19'8" 8" FIRE DEPT. ACCESS GATE ACCOMMODATIONS BUILDING MANHOLES

Notes: • bgs = below ground surface

- Groundwater observed in test pit at ~8' bgs on 02/02/10
- TP6 backfilled w/ excavated soils and site was re-graded & covered w/ gravel.
- 1 wood 2"x4" backfilled in to mark NE edge of 24" Metal pipe (salt water)

Pit Dimensions (ft)

Length 46'5"

Width ~28"

Depth ~9'



Test Pit Log

TP6

Project Greenpoint Energy Center

Page 2 of 3

Barrier Wall Design Utilizing Clearance

Location see page 1

City/Town Brooklyn, NY

Client National Grid

Contractor Zebra Environmental

Ground El. ~9.5'

Equipment/Reach VacMasters 1000 Series

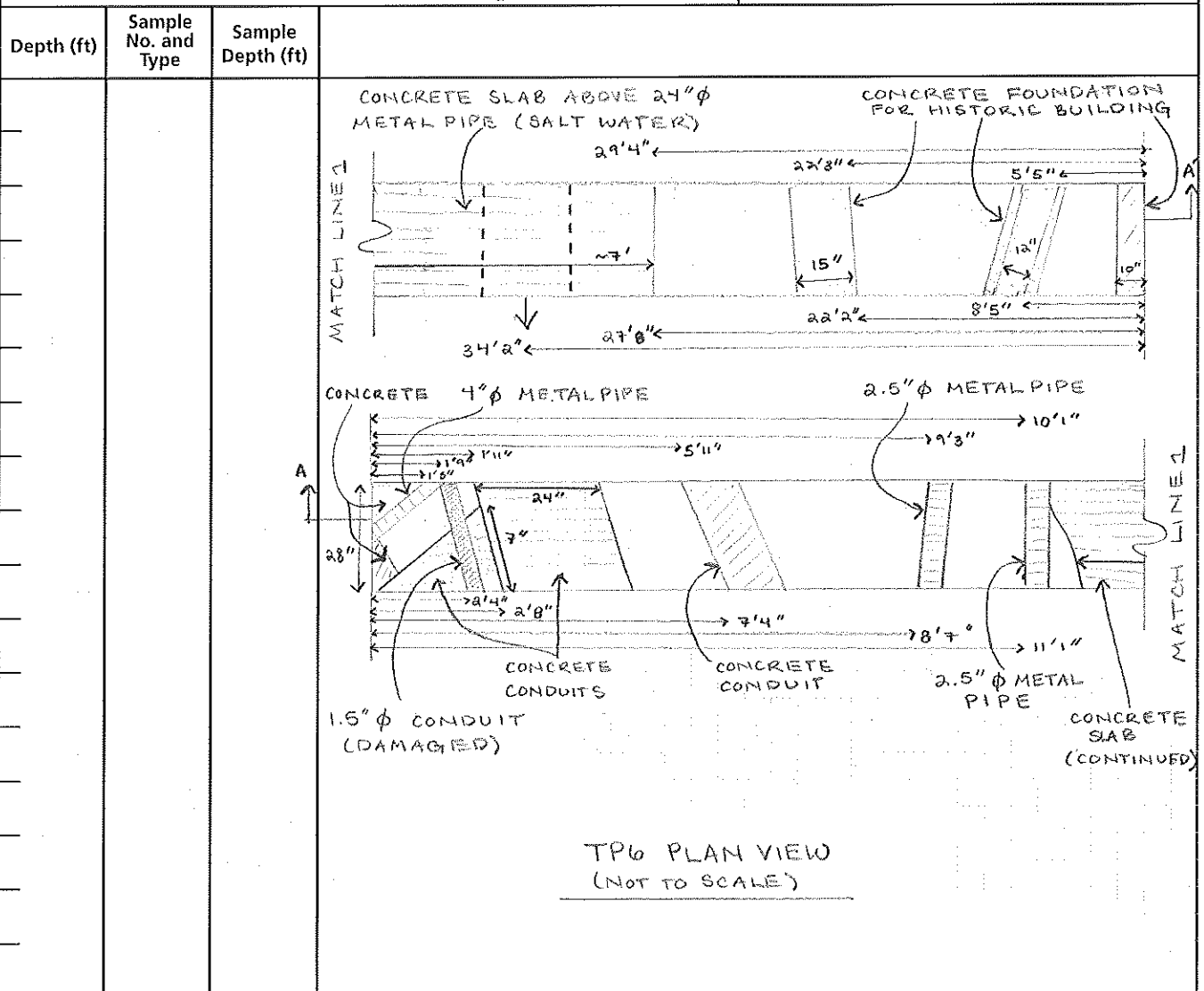
Datum NAVD 88

Operator Jose Garcia GEI Rep. J. Morin

GEI Proj. No. 093260-1-1101

Weather clear to partly cloudy, ~30°F

Date 02/01/10 to 02/08/10



Notes:

Pit Dimensions (ft)

Length 46'5"

Width ~28"

Depth ~9'



Test Pit Log

TP6

Project Greenpoint Energy Center

Page 3 of 3

Barrier Wall Design Utility Clearance

Location see page 1

City/Town Brooklyn, NY

Client National Grid

Contractor Zebra Environmental

Ground El. ~9.5'

Equipment/Reach VacMasters 1000 Series

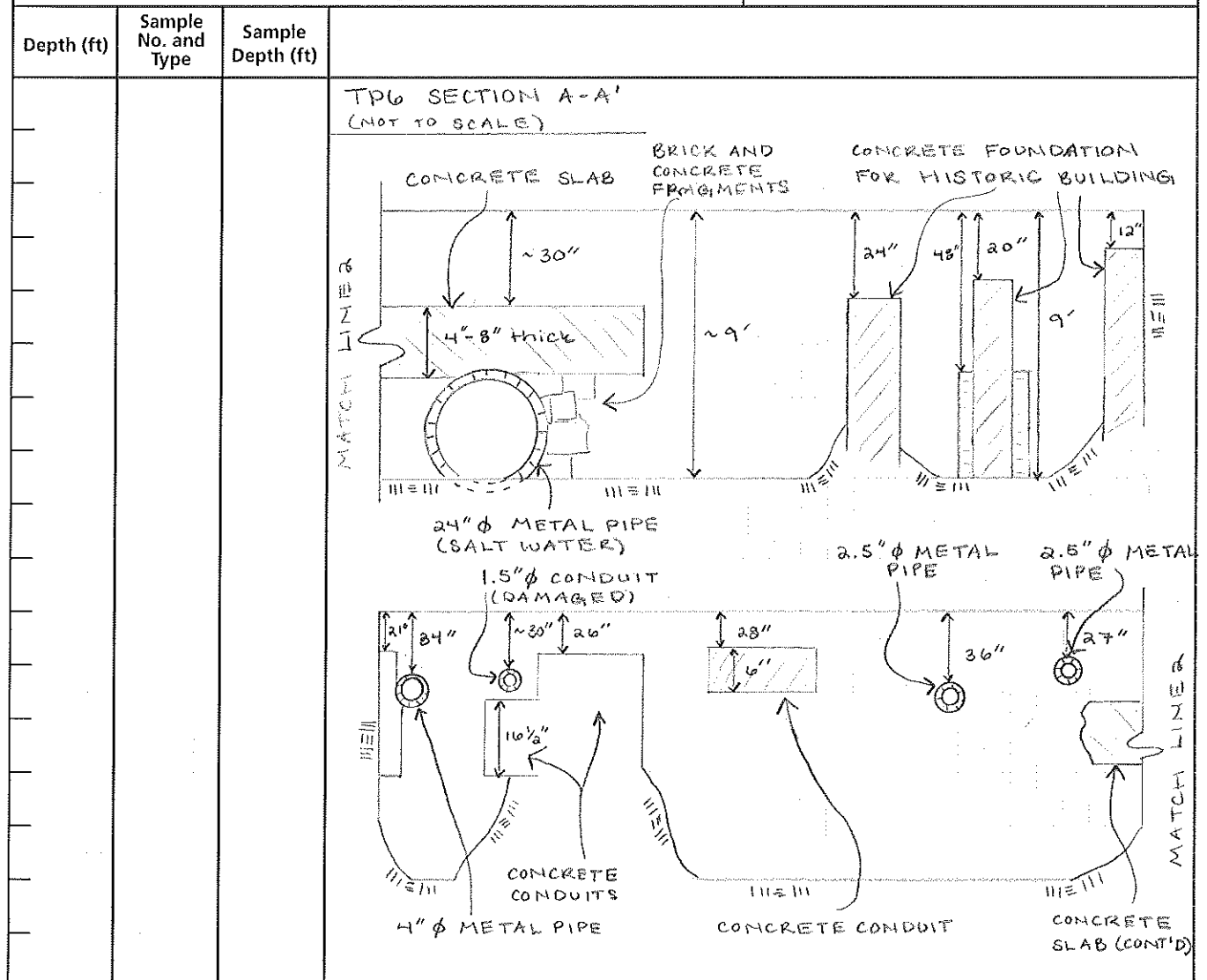
Datum NAVD 88

Operator Jose Garcia GEI Rep. J. Morin

GEI Proj. No. 093260-1-1101

Weather clear to partly cloudy, ~30°F

Date 02/01/10 to 02/08/10



Notes:

Pit Dimensions (ft)

Length 46'5"

Width ~28"

Depth ~9'



Test Pit Log

TP7

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor AWT Environmental Services
 Equipment/Reach Guzzler 6" ϕ I.D.
 Operator Keith P. GEI Rep. J. Morin
 Weather snow to cloudy, ~30°F

Page 1 of 2

Location West of Mooring
Bit 13 on the Dock

Ground El. ~8.0'

Datum NAVD 88

GEI Proj. No. 093260-1-1101

Date 02/03/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
0.5			(0-6") Narrowly Graded Gravel with Silt and Sand (GP-GM); ~65% gravel to 1.5" ϕ max, ~25% F to M sand, ~10% non-plastic fines, gray brown, FILL
1			
2			(6"-3'10") Widely Graded Sand with Silt and Gravel (SW-SM); ~70% F to M sand, ~15% non-plastic fines, ~10% gravel to 1.5" ϕ max, with cobbles, bricks, concrete, brown, FILL
3			
4	Bottom of Test Pit @ bgs	3'10"	TP7 LOCATION (NOT TO SCALE)

Notes: bgs = below ground surface
 • Groundwater not observed in test pit
 • TP7 backfilled with excavated soils
 • Wood 2"x4" backfilled to mark west edge of 20" ϕ Metal pipe (salt water)

Pit Dimensions (ft)

Length 11'9"

Width ~24"

Depth 3'10"



Test Pit Log

TP 7

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor AWT Environmental Services
 Equipment/Reach Guzzler 16" ϕ I.D.
 Operator Keith P. GEI Rep. J. Morin
 Weather snow to cloudy, ~30°F

Page 2 of 2

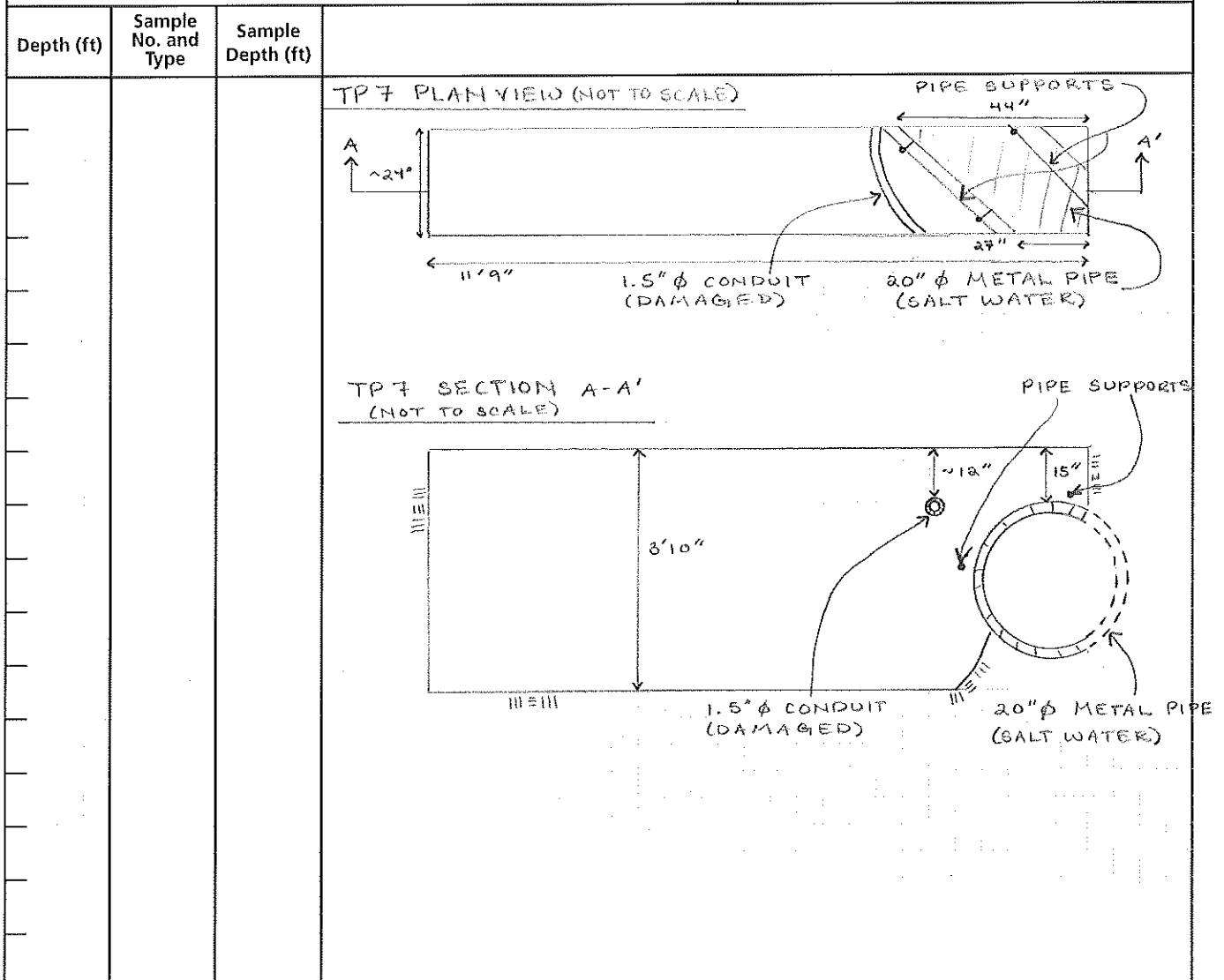
Location see page 1

Ground El. ~8.0'

Datum NAVD 88

GEI Proj. No. 093260-1-1101

Date 02/03/10



Notes:

Pit Dimensions (ft)

Length 11'9"

Width ~24"

Depth 3'10"



Test Pit Log

TP 8

Project Greenpoint Energy Center
Barrier Wall Design Utility Clearance
 City/Town Brooklyn, NY
 Client National Grid
 Contractor AWT Environmental Services
 Equipment/Reach Guzzler 16" ϕ I.D.
 Operator Keith P. GEI Rep. J. Morin
 Weather clear and windy ~25° F

Page 1 of 2

Location West of Mooring Bitt
37 on Newtown Creek
and NE of LNG Switchhouse
 Ground El. ~7.0'
 Datum NAVD 88
 GEI Proj. No. 093260
 Date 02/04/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
0.5			(0-6") Narrowly Graded Gravel with Sand (GP); ~60% gravel to 2" ϕ max, ~40% F to C sand, gray to brown, FILL
1			
2			(6"-4'5") Widely Graded Sand with silt and Gravel (SW-SM); ~80% F to C sand, ~10% non-plastic sand, ~10% subangular gravel to 2" ϕ max, brown, with cobbles and brick, FILL
3			
4			TP8 LOCATION (NOT TO SCALE)
5	Bottom of test pit @ bgs	4'5"	

Notes: bgs = below ground surface

- No groundwater observed in test pit
- TP8 backfilled w/ excavated soils

Pit Dimensions (ft)

Length 14'6"

Width ~18"

Depth 4'5"



Test Pit Log

TP8

Project Greenpoint Energy Center

Page 2 of 2

Barrier Wall Design Utility Clearance

Location see page 1

City/Town Brooklyn, NY

Client National Grid

Contractor AWT Environmental Services

Ground El. ~ 7.0'

Equipment/Reach Guzzler 6" ϕ I.D.

Datum NAVD 88

Operator Keith P. GEI Rep. J. Morin

GEI Proj. No. 093260-1-1101

Weather clear and windy, ~25°F

Date 02/04/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
			TP8 PLAN VIEW (NOT TO SCALE) TP8 SECTION A-A' (NOT TO SCALE)

Notes:	Pit Dimensions (ft)
	Length <u>14'6"</u>
	Width <u>~18"</u>
	Depth <u>4'5"</u>

Test Pit Log

TP9

Project Greenpoint Energy Center

Page 1 of 1

Barrier Wall Design Utility Clearance

City/Town Brooklyn, NY

Location West of Mooring

Bit 36 and SE of LNG

Client National Grid

Switch house

Contractor Zebra Environmental

Ground El. ~6.5'

Equipment/Reach VacMasters 1000 Series

Datum NAVD 88

Operator Jose Garcia GEI Rep. J. Morin

GEI Proj. No. 093260-1-1101

Weather clear, 25°F - 35°F

Date 02/04/10 - 02/05/10

Depth (ft)	Sample No. and Type	Sample Depth (ft)	
1			(0-1'6") Narrowly Graded Gravel (GP); 100% medium subangular to angular gravel 2" ϕ max; gray, FILL
2			(1'6"-6'6") widely Graded Sand (SW); ~90% F to C sand, ~10% subangular gravel to 2" ϕ max, also cobbles, wood, brick, concrete fragments, black, FILL
3			
4			
5			
6			
6.5	Bottom of test pit @	6'6"	

Notes: bgs = below ground surface

- No groundwater observed in test pit.
- No utilities or structures observed in test pit.
- TP 9 backfilled w/ excavated soils and gravel layer was replaced.

Pit Dimensions (ft)

Length 23'8"

Width ~2'

Depth 6'6"



TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Remedial Investigation			GPEC-TP201	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-1-1102	
EQUIPMENT		Guzzler Vac Truck and Hand Tools			ELEVATION ~10 ft NAVD88	
WEATHER		70-85°F Sunny			LOCATION Greenpoint LNG	
CONTRACTOR		Waste Recycling Services	OPERATOR	Pete Dueker	TIME STARTED 10:15:00 AM	
OBSERVED BY		Matthew Sweet	DATE	8/7/2012	TIME FINISHED 3:00:00 PM	
CHECKED BY		Jessica Rosenberg	DATE	8/7/2012		
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	Notes	Soil Description			
5		Three adjacent test pits excavated using vacuum extraction. Test pits centered around areas of suspected utilities; GPEC-TP-201A, Former 4 inch dia. Vapor Line, GPEC-TP-201B, suspected Former 6 inch dia. Naptha Line, GPEC-TP-201C, manhole suspected for former fire suppression water line. (0'- 6') Brown Silty SAND (SM) with fill, debris, steel 6 inch diameter pipe sections, brick, concrete, etc. (5'- 5.5') Sample Collected at 13:25 GPEC-TP-201A. Collected from underneath 4 inch diameter steel pipe. Pipe suspected to be former 4 inch diameter LPG Vapor Line. No staining, sheen, or impacts observed. (6') Groundwater Encountered. Test pit termination.	 GPEC-TP-201B Dia. 6" Scrap Fragment  GPEC-TP-201A Former 4" Dia. LPG Vapor Line  GPEC-TP-201C Abandoned Manhole Excavation Manhole appears to be tilted and abandoned. Manhole not opened, due to concerns of atmosphere. Later observed to be filled with soil.			
REMARKS:					TEST PIT DIMENSIONS:	
ft bgs = feet below ground surface					LENGTH	5 ft
NAVD88= North American Vertical Datum					WIDTH	2 ft
					DEPTH	6 ft

TEST PIT LOG					TEST PIT NUMBER		
PROJECT		Greenpoint Remedial Investigation			GPEC-TP202A		
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1	OF	1
CLIENT		National Grid			PROJECT NO. 125180-1-1102		
EQUIPMENT		Guzzler Vac Truck and Hand Tools			ELEVATION ~10 ft NAVD88		
WEATHER		70-90°F Sunny			LOCATION Greenpoint LNG		
CONTRACTOR		Waste Recycling Services	OPERATOR	Pete Dueker	TIME STARTED 8:00:00 AM		
OBSERVED BY		Matthew Sweet	DATE	8/8/2012	TIME FINISHED 11:00:00 AM		
CHECKED BY		Jessica Rosenberg	DATE	8/8/2012			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	Notes	Soil Description				
5			(0'- 2') Silty SAND with gravel (SM); ~60% sand, fine to coarse, ~25% gravel, fine to coarse, ~15% silt; dark brown, moist, dense, no odors or staining, fill, debris. (2'- 5') Narrowly Graded SAND (SP); ~95% sand, medium, ~5% silt; tan, pipe bedding material (4') Timber plank at west end of pit running north south. Pit running east west. Plank is ~10 ft from bulkhead.				
			 Timber plank visible in center of photo, no staining or odors observed.				
REMARKS:					TEST PIT DIMENSIONS:		
ft bgs = feet below ground surface					LENGTH	5 ft	
NAVD88= North American Vertical Datum					WIDTH	2 ft	
					DEPTH	5 ft	

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Remedial Investigation		GPEC-TP-202B	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Guzzler Vac Truck and Hand Tools		PROJECT NO. 125180-1-1102	
WEATHER		70-90°F Sunny		ELEVATION ~10 ft NAVD88	
CONTRACTOR		Waste Recycling Services	OPERATOR	LOCATION Greenpoint LNG	
OBSERVED BY		Matthew Sweet	DATE	TIME STARTED 8:00:00 AM	
CHECKED BY		Jessica Rosenberg	DATE	TIME FINISHED 11:00:00 AM	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	Notes			
		Soil Description			
		(0'- 1') Silty SAND with Gravel (SM); ~60% sand, fine to coarse, ~25% gravel, fine to coarse, ~15% silt; dark brown, fill, abandoned electrical lines and shut off valve. (1'- 3') Narrowly Graded SAND (SP); ~95% sand, medium, ~5% silt; tan, utility bedding sand. (3'- 5') Silty SAND with Gravel (SM); ~60% sand, fine to coarse, ~25% gravel, fine to coarse, ~15% silt; medium brown, moist, fill, debris. (5') Groundwater encountered (5'- 5.5') Sample GPEC-TP-202B at 10:40. Petroleum-like odor, greasy texture, slight naphthalene-like odor, PID= 73.1 ppm., dark brown, concrete fragments.			
5					
10					
15					
20					
REMARKS:		TEST PIT DIMENSIONS:			
ft bgs = feet below ground surface		LENGTH 5 ft			
NAVD88= North American Vertical Datum		WIDTH 2 ft			
		DEPTH 5 ft			

TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Remedial Investigation			GPEC-TP203B	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-1-1102	
EQUIPMENT		Guzzler Vac Truck and Hand Tools			ELEVATION ~10 ft NAVD88	
WEATHER		70-85°F Sunny			LOCATION Greenpoint LNG	
CONTRACTOR		Waste Recycling Services	OPERATOR	Pete Dueker	TIME STARTED 10:15:00 AM	
OBSERVED BY		Matthew Sweet	DATE	8/7/2012	TIME FINISHED 1:50:00 PM	
CHECKED BY		Jessica Rosenberg	DATE	8/7/2012		

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	Notes	Soil Description
5			(0'- 0.5') Narrowly Graded GRAVEL (GP); 100% fine gravel; gray. (0.5'- 2') Silty SAND with Gravel (SM); brown, dense, cobbles, no staining or odors. (2'- 4') Narrowly Graded SAND (SP); 100% medium sand, tan; utility bedding sand. (4'- 4.5') Silty SAND with Gravel (SM); brown, wet, no staining or odors. PID= 0.0 (4.5'- 5') Sample GPEC-TP-203B at 1:50 PM, underneath pipe run. No staining or odors observed, PID = 0.0. (5') Groundwater Encountered. Test pit termination.
10			 GPEC-TP-203B 10" dia. Naptha pipe
15			
20			

REMARKS: ft bgs = feet below ground surface NAVD88= North American Vertical Datum		TEST PIT DIMENSIONS: LENGTH 10 ft WIDTH 2 ft DEPTH 5 ft	
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TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Remedial Investigation			GPEC-TP203	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-1-1102	
EQUIPMENT		Guzzler Vac Truck and Hand Tools			ELEVATION ~10 ft NAVD88	
WEATHER		70-90°F sunny			LOCATION Greenpoint LNG	
CONTRACTOR		Waste Recycling Services	OPERATOR	Pete Dueker	TIME STARTED 11:30:00 AM	
OBSERVED BY		Matthew Sweet	DATE	8/8/2012	TIME FINISHED 2:30:00 PM	
CHECKED BY		Jessica Rosenberg	DATE	8/8/2012		
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	Notes	Soil Description			
5			(0'- 2') Silty SAND with Gravel (SM); ~60% sand, fine to coarse, ~25% gravel, fine to coarse, ~15% silt; dark brown, fill, concrete, brick, scrap. (2'- 3') Narrowly Graded SAND (SP); ~100% medium sand, medium; tan, utility bedding sand. (3'- 5') Silty SAND with Gravel (SM); ~60% sand, fine to coarse, ~25% gravel, fine to coarse, ~15% silt; (5') Groundwater Encountered. (5'- 5.5') Sample GPEC-TP-203 at 2:30 PM, petroleum-like odor, greasy texture, PID = 149 ppm, dark brown, cobbles. Test pit termination			
10			 GPEC-TP-203  GPEC-TP-203			
15						
20						
REMARKS:					TEST PIT DIMENSIONS:	
ft bgs = feet below ground surface					LENGTH 5 ft	
NAVD88= North American Vertical Datum					WIDTH 2 ft	
					DEPTH 5.5 ft	

TEST PIT LOG				TEST PIT NUMBER GPEC-TP204	
PROJECT		Greenpoint Remedial Investigation		1 OF 1	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		PROJECT NO. 125180-1-1102	
CLIENT		National Grid		ELEVATION ~10 ft NAVD88	
EQUIPMENT		Guzzler Vac Truck and Hand Tools		LOCATION Greenpoint LNG	
WEATHER		70-90°F hot hazy humid		TIME STARTED 9:30:00 AM	
CONTRACTOR		Waste Recycling Services	OPERATOR	Pete Dueker	TIME FINISHED 11:00:00 AM
OBSERVED BY		Matthew Sweet	DATE	8/9/2012	
CHECKED BY		Jessica Rosenberg	DATE	8/9/2012	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	Notes	Soil Description		
			(0'- 2.3') Silty SAND with Gravel (SM); ~55% sand, fine to coarse, ~30% gravel, fine to coarse, ~15% silt; brown, crushed concrete, hard, concrete slab 0-0.5' on east half. (2.3'- 3.5') Narrowly Graded SAND (SP); ~100% medium sand, tan, bedding sand for pipe, no staining, sheen, odor, or product observed. 10 inch diameter steel naptha pipe located at 2 ft bgs. (3'- 3.5') Sample GPEC-TP-204 at 11:15 AM. No staining or odors observed. Test pit termination		
5					
10					
15			  GPEC-TP-204 GPEC-TP-204 10" dia. Steel naptha pipe with 90° elbow vertical, capped with concrete. Crown of pipe at 2 ft bgs.		
20					
REMARKS:			TEST PIT DIMENSIONS:		
ft bgs = feet below ground surface			LENGTH 5 ft		
NAVD88= North American Vertical Dadum			WIDTH 2 ft		
			DEPTH 3.5 ft		
					

TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Remedial Investigation			GPEC-TP205	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-1-1102	
EQUIPMENT		Guzzler Vac Truck and Hand Tools			ELEVATION ~10 ft NAVD88	
WEATHER		70-85°F Sunny			LOCATION Greenpoint LNG	
CONTRACTOR		Waste Recycling Services	OPERATOR	Pete Dueker	TIME STARTED 9:10:00 AM	
OBSERVED BY		Matthew Sweet	DATE	8/13/2012	TIME FINISHED 1:00:00 PM	
CHECKED BY		Jessica Rosenberg	DATE	8/13/2012		
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	Notes	Soil Description			
5			(0'- 1.5') Silty GRAVEL (GM); gray, road base crusted gravel < 2" dia., fill. (1.5'- 7.5') Silty SAND with Gravel (SM); ~50% sand, ~35% gravel, fine to coarse, ~15% silt; brown, gravel and cobbles <18" diameter fill, no staining or odors. 2 inch diameter conduit uncovered at 3 ft bgs in bedding sand running east/west towards bulkhead. Most likely abandoned lines LNG barge unloading conduit and control tubes.			
10			(6') Groundwater at low tide 6 ft bgs, no staining odor or sheen. (7.5'- 8') Sample GPEC-TP-205 at 1:00 PM PID = 0.0. Test pit termination.			
15			 Tubing and 2" dia. conduit uncovered at 3 ft bgs. Running east-west towards bulkhead. Most likely abandoned lines for former conveyor belt Sample GPEC-TP-205(7.5-8) Concrete slab at 4 ft bgs. GPEC-TP-205 12 inch diameter unidentified pipe.			
20						
REMARKS:					TEST PIT DIMENSIONS:	
ft bgs = feet below ground surface					LENGTH 10 ft	
NAVD88= North American Vertical Datum					WIDTH 2 ft	
					DEPTH 7.5	

TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI				GPEC-TP UST 1	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				1	2
CLIENT		National Grid				PROJECT NO.	125180-2-1202
EQUIPMENT		Vac Truck (Guzzler ACE 317C) and Backhoe (CAT 430D)				ELEVATION	~14.91ft
WEATHER		Cloudy 71°F - 83°F				NORTHING	686829.68
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali.		EASTING	648818.83
OBSERVED BY		Akin Adegbayi	DATE	11/6/2014		DATE STARTED	8/6/2014
CHECKED BY		Matt Sweet	DATE	11/7/2014		DATE FINISHED	8/8/2014
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description				
5	GPEC-UST1A (5' - 5.5')	0.0	(0' - 5.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% fine to coarse brown sand, ~35% fine to coarse gravel. Maximum gravel grain size 6 inch. Concrete fragments, some cobbles and red brick fragments. No visual impact observed. Groundwater encountered at ~5.5feet				
10	GPEC-UST1B (5' - 5.5')		Bottom of test pit at 5.5 feet. 				
15							
20							
NOTES: Test pit to investigate former structure, east of Vandervoort Avenue. Datum: New York State Plane NAVD 88.						TEST PIT DIMENSIONS: LENGTH 18 ft. WIDTH 5 ft. DEPTH 5.5 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP UST 2	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler ACE 317C) and Backhoe (CAT 430D)		PROJECT NO. 125180-2-1202	
WEATHER		Cloudy 71°F - 83°F		ELEVATION ~15.76 ft	
CONTRACTOR		Island Pump & Tank	OPERATOR Ashton Ali	NORTHING 686877.78	
OBSERVED BY		Akin Adegbayi	DATE 11/6/2014	EASTING 648808.42	
CHECKED BY		Matt Sweet	DATE 11/7/2014	DATE STARTED 8/12/2014	
DATE FINISHED 8/13/2014					
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description		
5	GPEC-UST2 A (5' - 5.5') GPEC-UST2 B (5' - 5.5')	0.0	(0' - 5.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~65% fine to coarse brown sand, ~35% fine to coarse gravel. Maximum gravel grain size 6 inch. Concrete fragments, some cobbles and red brick fragments. No visual impact observed. Groundwater encountered at ~5.5 ft.		
10		Bottom of test pit at 5.5 feet.			
15					
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to investigate former structure, east of Vandervoort Avenue.			LENGTH 18 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 5 ft.		
			DEPTH 5.5 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP300	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		PROJECT NO. 125180-2-1202	
WEATHER		Cloudy 62°F - 72°F		ELEVATION ~12.44 ft	
CONTRACTOR		Island Pump & Tank	OPERATOR	NORTHING 687371.23	
OBSERVED BY		Akin Adegbayi	DATE	EASTING 650602.86	
CHECKED BY		Matt Sweet	DATE	DATE STARTED 10/8/2014	
				DATE FINISHED 10/8/2014	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP300A (3.5-4.0')	0.0	(0-0.2') ASPHALT PAVEMENT (0.2-0.5') GRAVEL SUBBASE (GW) (0.5-11.0') NARROWLY GRADED SAND WITH GRAVEL (SP); ~ 85% fine to medium sand (utility bedding sand); ~ 15% medium to coarse gravel up to 6 inches, moist, loose, contains trace concrete fragments, asphalt fragments.		
10	GPEC-TP300B (10.0 - 10.5')	646	(10.0-11.0') Similar to above soil, but wet with tar-like odor and soil staining. Groundwater with slight sheen and slight tar like odor observed at 10.8 ft.		
15			Bottom of Test Pit at 11.0 ft. Photo 1: GPEC-TP300  Photo 2: Bottom of test pit 		
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 3 ft.		
			DEPTH 11 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP301	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~13.58 ft.	
WEATHER		Sunny 58°F - 70°F		NORTHING 687655.06	
CONTRACTOR		Island Pump & Tank	OPERATOR	EASTING 650841.09	
OBSERVED BY		Akin Adegbayi	DATE	DATE STARTED 10/10/2014	
CHECKED BY		Matt Sweet	DATE	DATE FINISHED 10/10/2014	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP301A (2.0 - 2.5')	0.5	(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5-1.5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% medium to coarse sand (utility bedding sand), ~20% subangular gravel up to 6 inches, ~10% fines, contains red brick fragments, and glass fragments. (1.5-1.7') Layer of Concrete.
		72	(1.7-2.5') Similar to the soil above, but with solid layer of discrete grannules of tar-like material, black ash. Tar-like odor. (2.5-4.0') Similar to the soil above, but with some brown/black ash. (4.0 -12.0') Similar to the soil above, no cinder. Wet and black. 4.0' Partially rusted 4-inch diameter steel pipe enocunterd at 4 ft orientered NW-SE.
10	GPEC-TP301B (12 - 12.5')	0.0	(12.0-13.5') Similar to the soil above, but some organic odor observed. 12.0' 12-inch diameter steel pipe, encountered at 12.0 ft, oriented at NW-SE direction.
			Groundwater observed at ~13.5'.
15			Bottom of Test Pit at 13.5 feet.
			Photo 1: GPEC-TP301 facing east  Photo 2: Bottom of test pit 
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.	TEST PIT DIMENSIONS: LENGTH 14 ft. WIDTH 3 ft. DEPTH 13.5 ft.
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP302	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~13.38 ft.	
WEATHER		Sunny 58°F - 70°F		NORTHING 687659.06	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	
OBSERVED BY		Akin Adegbayi	DATE	10/13/2014	
CHECKED BY		Matt Sweet	DATE	11/7/2014	
DATE FINISHED		10/13/2014			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
		0.0	~(0-0.25') ASPHALT PAVEMENT		
			~(0.25-0.5') GRAVEL SUBBASE (GW) Bottom of Test Pit at 0.5 feet.		
			~0.5' Concrete pad slab covered full test pit area.		
			GPEC-TP302 excavation		
5					
10					
15					
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures. Concrete slab encountered at 0.5 ft below ground surface.			LENGTH 20 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 3 ft.		
			DEPTH 0.5 ft.		
					

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP303	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~13.30 ft.	
WEATHER		Partly Cloudy 63°F - 76°F		NORTHING 687595.72	
CONTRACTOR		Island Pump & Tank	OPERATOR	Mike Mede	
OBSERVED BY		Akin Adegbayi	DATE	10/14/2014	
CHECKED BY		Matt Sweet	DATE	11/7/2014	
DATE FINISHED		10/14/2014			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP303A (3.5-4.0')	0.0	(0-0.25') ASPHALT PAVEMENT		
			(0.25-0.5') GRAVEL SUBBASE (GW)		
10	GPEC-TP303B (9.0-9.5')	0.0	(0.5-12.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% fine to coarse sand, ~15% subangular fine to coarse gravel up to 4 inches in diameter. ~5% fines, contains fill material, red brick fragments, wood chips, scrap metal wires, glass bottles fragments, trace of white ash sand, no odor, no soil staining, moist.		
			Groundwater observed at 12.5 ft. No sheen observed.		
15			Bottom of Test Pit at 12.5 ft.		
			Photograph 1: GPEC-TP303  Photograph 2: Bottom of excavation 		
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine former MGP structures.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88			WIDTH 3 ft.		
			DEPTH 12.5 ft.		
					

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP304/305	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~13.44 ft.	
WEATHER		Sunny 58°F - 70°F		NORTHING 687583.21	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	
OBSERVED BY		Akin Adegbayi	DATE	10/13/2014	
CHECKED BY		Matt Sweet	DATE	11/7/2014	
DATE FINISHED		10/20/2014			

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
			(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5-3.5') Fill material. Concrete fragments, brick fragments. Soil staining. Concrete refusal at 3.5 ft below ground surface.
	GPEC-TP 304-305A (3-3.5')	20.3	Concrete obstruction/refusal at ~3.5 ft.
5			Bottom of Test Pit at 3.5 ft.
10			Photograph 1: GPEC-TP304/305 facing west 
15			Photograph 2: Bottom of excavation 
20			

NOTES: Test pit to determine location of former MGP structures. Concrete slab refusal at 3.5 ft below ground surface. Datum: New York State Plane NAVD 88		TEST PIT DIMENSIONS: LENGTH 3 to 14 ft. WIDTH 3 to 22.3 ft. DEPTH 3.5 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP306	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~13.08 ft.	
WEATHER		Cloudy 67°F - 75°F		NORTHING 687491.63	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	
OBSERVED BY		Akin Adegbayi	DATE	10/7/2014	
CHECKED BY		Matt Sweet	DATE	11/7/2014	
DATE FINISHED		10/7/2014			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP306A (3.5-4.0')	3.6	~ (0-0.25') ASPHALT PAVEMENT ~ (0.25-0.5') GRAVEL SUBBASE (GW) ~ (0.5-5.0') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% fine sand, ~25% subangular gravel to 6 inches, ~5% fines, slight soil staining, some brick fragments, concrete fragments, wood chips, tar like odor, moist. ~ (5.0-12.0') NARROWLY GRADED SAND (SP); ~90% fine sand, ~5% subangular fine to medium gravel, ~5% silt, greenish grey, tar like odor, moist.		
10	GPEC-TP306B (8.5-9.0')	31.6	Groundwater with slight sheen and slight tar like odor observed at 8.5 ft.		
15			Bottom of Test Pit at ~9 ft.		
20			Photograph 1: GPEC-TP306.  Photograph 2: Bottom of excavation. 		
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures.			LENGTH 3 ft.		
Datum: New York State Plane NAVD 88			WIDTH 10 ft.		
			DEPTH 9 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP307	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~12.41 ft.	
WEATHER		Sunny 55°F - 69°F		NORTHING 687429.46	
CONTRACTOR		Island Pump & Tank	OPERATOR	Mike Mede.	
OBSERVED BY		Akin Adegbayi	DATE	10/6/2014	
CHECKED BY		Matt Sweet	DATE	11/7/2014	
DATE FINISHED		10/6/2014			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP307A (3.5-4')		(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5-5.0') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% fine to coarse sand, ~15% subangular fine to coarse gravel up to 4 inches in diameter, ~10% silt, contains concrete fragments with rebar, black staining, tar like odor, moist.		
10	GPEC-TP307B (10.5-11')	72.1	(5.0-12.0') NARROWLY GRADED SAND (SP); ~90% fine sand, ~5% subangular fine to medium gravel, ~5% silt, greenish grey, tar like odor, moist. Groundwater with sheen and tar like odor observed at ~11 ft.		
15			Bottom of Test Pit at ~12.0 ft. Photograph 1: GPEC-TP307  Photograph 2: Bottom of excavation 		
20					
NOTES:			TEST PIT DIMENSIONS:		
Crew installed four-inch diameter PVC pipe in the southeast corner of the test pit for future drilling work.			LENGTH 10 ft.		
New York State Plane NAVD 88			WIDTH 10 ft.		
			DEPTH 12 ft.		
					

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP308	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~12.61 ft.	
WEATHER		Sunny 57°F - 71°F		NORTHING 687349.39	
CONTRACTOR		Island Pump & Tank	OPERATOR	Mike Mede.	EASTING 650459.43
OBSERVED BY		Akin Adegbayi	DATE	10/3/2014	DATE STARTED 10/3/2014
CHECKED BY		Matt Sweet	DATE	11/7/2014	DATE FINISHED 10/3/2014
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP308A (3.5-4.0')	6.6	(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5-8.0') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% fine to medium sand, ~15% subangular gravel up to 6 inches, ~10% silt, contains brick, concrete, broken pipes, and wood fragments, dark grey to black, staining, tar like odor, moist.		
10	GPEC-TP308B (9.5-10.0')	13.5	(8.0-12.0') NARROWLY GRADED SAND (SP); ~90% fine sand, ~5% subangular gravel, ~5% silt, greenish grey, tar like odor, moist. Groundwater with sheen and tar like odor observed at 11.5 ft.		
15			Bottom of Test Pit at 12 ft. Photograph 1: GPEC- TP308  Photograph 2: GPEC-TP308 		
20					
NOTES:				TEST PIT DIMENSIONS:	
Crew installed four-inch diameter PVC pipe in western portion of the test pit for future drilling work				LENGTH 10 ft.	
Datum: New York State Plane NAVD 88				WIDTH 5 ft.	
GEI 				DEPTH 12 ft.	

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TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI			GPEC-TP309	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				
CLIENT		National Grid			1 OF 2	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)			PROJECT NO. 125180-2-1202	
WEATHER		Cloudy 61°F - 70°F light rain			ELEVATION ~12.77 ft.	
CONTRACTOR		Island Pump & Tank	OPERATOR	Mike Mede	NORTHING 687341.82	
OBSERVED BY		Akin Adegbayi	DATE	10/1/2014	EASTING 650349.59	
CHECKED BY		Matt Sweet	DATE	11/7/2014	DATE STARTED 10/2/2014	
DATE FINISHED		10/2/2014				
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP309A (1.5'-2.0')		(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5-6.0') WIDELY GRADED SAND WITH GRAVEL (SW); ~50% medium to coarse sand, ~45% subangular gravel and cobbles up to 12 inches, ~ 5 % silt, contains brick, concrete, 4 to 6 inch broken pieces of pipes, and wood fragments, brown, tar like odor moist. Construction debris (fill material) encountered at ~2 ft. below ground surface.			
	GPEC-TP309A (5.5-6.0')	0.2	Soil becomes black and wet at 6 ft. below ground surface. Concrete construction debris caused refusal at 6 ft.			
			Bottom of Test Pit at ~6 ft.			
10			Photograph: GPEC-TP309 excavation 			
15						
20						
NOTES:				TEST PIT DIMENSIONS:		
Expanded test pit 2 ft. (linear) east, encountered large amounts of construction debris at 2 ft. bgs, refusal encountered on concrete monolith at 6 ft. bgs.				LENGTH 10 ft.		
Datum: New York State Plane NAVD 88				WIDTH 5 ft.		
				DEPTH 6 ft.		

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TEST PIT LOG					TEST PIT NUMBER		
PROJECT		Greenpoint Energy Center Phase 2 RI			GPEC-TP310		
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1	OF	2
CLIENT		National Grid			PROJECT NO. 125180-2-1202		
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)			ELEVATION ~12.58 ft.		
WEATHER		Cloudy 61°F - 70°F light rain			NORTHING 687380.87		
CONTRACTOR		Island Pump & Tank	OPERATOR	Mike Mede	EASTING 650359.14		
OBSERVED BY		Akin Adegbayi	DATE	10/1/2014	DATE STARTED 10/1/2014		
CHECKED BY		Matt Sweet	DATE	11/7/2014	DATE FINISHED 10/1/2014		
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks				
5	GPEC-TP310A (1.5'-2.0')	38	(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5-5.0') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~65% medium to coarse sand, ~25% subangular gravel and cobbles up to 12 inches, ~10% silt, contains brick, concrete, and wood fragments, red, tar like odor moist.				
	GPEC-TP310B (3.5'-4.0')	25	Concrete structure encountered at 4 ft. below ground surface.				
10	Bottom of Test Pit at ~5 ft. Photograph 1: GPEC-TP310 Excavation 						
15	Photograph 2: Bottom of excavation 						
20							
NOTES:					TEST PIT DIMENSIONS:		
Test Pit to determine former location of MGP structures.					LENGTH 15 ft.		
Datum: New York State Plane NAVD 88					WIDTH 3 ft.		
					DEPTH 5 ft.		
							

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP311	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~12.26 ft.	
WEATHER		Sunny 58°F - 70°F		NORTHING 687558.51	
CONTRACTOR		Island Pump & Tank	OPERATOR	Mike Mede	
OBSERVED BY		Akin Adegbayi	DATE	9/29/2014	
CHECKED BY		Matt Sweet	DATE	11/7/2014	
DATE FINISHED		9/29/2014			

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP311A (2.0 - 2.5')	0.4	(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5-1.0') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~65% fine to coarse sand, ~25% subangular gravel up to 5 inches in diameter. ~10% fines, contains red brick fragments, scrap wires, wood chips, glass fragments. (1.0- 8.0') Similar to soil above, but brown/black and moist. Slight petroleum-like odor. Some fine sand (utility bedding) was observed around the concrete footing. Concrete slab/footing encountered at the northern portion of test pit at ~2.5 ft. below ground surface. Suspected transformer pad was partially located at 4.5 ft below ground surface.
	GPEC-TP311B (7.5 - 8.0')	0.0	Groundwater was observed at ~7.5 ft. No visual impact was observed on water.
15			Bottom of Test Pit at 13.5 ft. Photograph of GPEC-TP311 Looking North.  Concrete footing
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New State Plane NAVD 88		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 3 ft. DEPTH 8 ft.
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP312	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1	2
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~12.15 ft.	
WEATHER		Cloudy 68°F - 74°F		NORTHING 687441.11	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	
OBSERVED BY		Matt Sweet	DATE	9/24/2014	
CHECKED BY		Jimmy Cheung	DATE	10/17/2014	
DATE FINISHED		9/24/2014			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP312 (5.5'-6')	0.0	(0-0.25') ASPHALT PAVEMENT		
			(0.25-0.5') GRAVEL SUBBASE (GW)		
10			(0.5-1') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~65% sand, ~25% subangular gravel up to 6 inches, ~10% silt, contains brick, concrete, and wood fragments, red, moist.		
			(1.0-4.0') Similar to above, except with some black stained soil.		
15			(4.0-7.0') Similar to above. But some soil staining. Soil coated with tar-like material, timber.		
			Bottom of Test Pit at 7 ft.		
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88			WIDTH 3 ft.		
			DEPTH 7 ft.		

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TEST PIT LOG				TEST PIT NUMBER		
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP313		
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1	2	
CLIENT		National Grid		OF		
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		PROJECT NO.	125180-2-1202	
WEATHER		Sunny 50°F - 70°F		ELEVATION	~12.93 ft.	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	NORTHING	687306.79
OBSERVED BY		Matt Sweet	DATE	9/23/2014	EASTING	650058.16
CHECKED BY		Jimmy Cheung	DATE	10/17/2014	DATE STARTED	9/23/2014
DATE FINISHED 9/23/2014						
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC- TP313 (6.0-6.5')	619	(0-0.5') WIDELY GRADED GRAVEL WITH SILT AND SAND (GW); Gravel base. (0.5-2.0') SILTY SAND WITH GRAVEL (SM) ~50% fine to coarse sand, 35% fine to coarse gravel ~15% silt, contains tile, clay pipe, and other fill fragments, brown/black/red, moist. (2.0-6.0') SILTY SAND WITH GRAVEL (SM) ~50% fine to coarse, ~20% fine to coarse subangular gravel and cobbles, ~30% silt, red/grey/brown, moist. Medium to strong petroleum odor. Groundwater encountered at 6 ft. (6.0-7.0') Similar to above, except stained, visible sheen, and strong petroleum-like odor.			
10			Bottom of Test Pit at 7 ft.			
15						
20						
NOTES:			TEST PIT DIMENSIONS:			
Test pit to investigate former drain feature channel.			LENGTH 10 ft.			
Datum: New York State Plane NAVD 88			WIDTH 3 ft.			
			DEPTH 7 ft.			

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP314	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~12.60 ft.	
WEATHER		Sunny 58°F - 70°F		NORTHING 687342.99	
CONTRACTOR		Island Pump & Tank	OPERATOR Ashton Ali	EASTING 650377.38	
OBSERVED BY		Akin Adegbayi	DATE 9/30/2014	DATE STARTED 9/30/2014	
CHECKED BY		Matt Sweet	DATE 11/7/2014	DATE FINISHED 9/30/2014	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks				
5	GPEC-TP314A (1.5 - 2')	0.1	(0-0.25') ASPHALT PAVEMENT (0.25-0.5') GRAVEL SUBBASE (GW) (0.5- 1.5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~65% fine to coarse sand, ~25% fine to coarse subangular gravel to 6 inches, ~10% fines, contains red brick fragments, wood chips, concrete fragments. Tar like odor. (1.5- 7.0') Similar to soil above, but black stained soil. Tar-like odor. Concrete footing at northern end of test pit was encountered at ~1.5 ft. below ground surface. (2.0-4.0') Black stained soil and tar like odor observed.				
		25 - 46	(4.0')	Encountered 6-inch teracotta ceramic pipe traversing east and west parallel to Maspeth Ave.			
			(5.0')	16-inch steel abandononed gas main encountered.			
		GPEC-TP314B (4 - 4.5')	56.2	(7.0')	Rocks encountered at 7 ft. below ground surface.		
	Bottom of Test Pit at 7 feet.						
	10	GPEC-TP314C (6.5 - 7')	Photograph 1: GPEC-TP314, looking East 				
		15			20		

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88		TEST PIT DIMENSIONS: LENGTH 3 ft. WIDTH 15 ft. DEPTH 7 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP316	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		ELEVATION ~11.51 ft.	
WEATHER		Sunny 50°F - 70°F		NORTHING 687250.64	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	EASTING 649850.09
OBSERVED BY		Matt Sweet	DATE	9/22/2014	DATE STARTED 9/22/2014
CHECKED BY		Jimmy Cheung	DATE	9/23/2014	DATE FINISHED 9/23/2014

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP316B (2.5'-3.0')		(0-0.5') NARROWLY GRADED GRAVEL (GW); ~100% coarse gravel up to 1 inch in diameter.
			(0.5-3.0') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM) ~75% fine to medium sand, 15% fine to coarse gravel ~10% silt, contains tile, brick, metal, and wood fragments, brown, moist, 4"x4" timber encountered at ~3 ft.
10	GPEC-TP316A (8.0'-8.5')	2.7	(3.0'-7.5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% fine to coarse sand, ~30% fine to coarse gravel, ~10% silt, brown, moist.
			(7.5'-9.0') Groundwater encountered at 7.5 ft. SILTY SAND AND GRAVEL (SM); ~75% fine to medium sand, 15% fine to coarse gravel ~10% silt, dark gray, wet. Petroleum-like odor with no visible sheen.
15			Bottom of Test Pit at 9 ft.
20			

NOTES:		TEST PIT DIMENSIONS:	
Test pit to investigate location of former waste area.		LENGTH	10 ft.
Datum: New York State Plane NAVD 88		WIDTH	3 ft.
		DEPTH	9 ft.

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP317	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		PROJECT NO. 125180-2-1202	
WEATHER		Cloudy 66°F - 70°F		ELEVATION ~11.48 ft.	
CONTRACTOR		Island Pump & Tank	OPERATOR Ashton Ali	NORTHING 687171.97	
OBSERVED BY		Akin Adegbayi	DATE 9/22/2014	EASTING 649915.16	
CHECKED BY		Jimmy Cheung	DATE 10/17/2014	DATE STARTED 9/22/2014	
DATE FINISHED 9/22/2014					
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP317A (3-3.5)	0.0	(0' - 1.0') NARROWLY GRADED GRAVEL (GP); ~90% coarse gravel up to 4", ~5% sand, ~5% fines, brown, moist, no odor observed.		
			(1.0' - 4.5') SILTY SAND WITH GRAVEL (SM) ~65% fine to coarse sand, ~20% fines, ~15% fine to coarse gravel, contains wood chips, red brick fragments, glass fragments, and concrete fragments, brown, moist.		
			(4.5-6.0') Similar to above except black-gray and becomes wet. No odor observed.		
	GPEC-TP317B (6-6.5)	0.0	Groundwater encountered at 5.5 ft. No visual impact observed.		
10			Bottom of Test Pit at 6.5 ft.		
15					
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine the location of the former waste/SNG area, North of Maspeth Ave.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88			WIDTH 3 ft.		
			DEPTH 6.5 ft.		

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TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI				GPEC-TP318	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211					
CLIENT		National Grid				1 OF 2	
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)				PROJECT NO. 125180-2-1202	
WEATHER		Mostly Sunny 73°F - 90°F				ELEVATION 14.14 ft.	
CONTRACTOR		Island Pump & Tank		OPERATOR Ashton Ali		NORTHING 687224.41	
OBSERVED BY		Akin Adegbayi		DATE 8/5/2014		EASTING 649400.57	
CHECKED BY		Alexander Erb		DATE 8/22/2014		DATE STARTED 8/5/2014	
DATE FINISHED 9/18/2014							
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks				
5	GPEC-TP318A (4-4.5)	56	~ (0.0' - 1.5') WIDELY GRADED GRAVEL WITH SAND (GW); ~65% fine to coarse gravel, ~30% fine to coarse sand, ~5% fines, dark brown, moist. Maximum gravel grain size 6". ~ (1.5' - 8') WIDELY GRADED SAND WITH GRAVEL AND SILT (SW-SM); ~75% fine to coarse sand, ~15% fine to coarse gravel, ~10% silt, brown, moist. Some red brick fragments, concrete fragments, wood chips, fill material, soil staining observed at ~5ft. Below ground surface.				
10	GPEC-TP318A (9.5-10)	21	~ (8' - 10') SILTY SAND (SM); ~60% fine to medium brown sand, ~15% coarse gravel; ~25% fines, moist, some tar-like material on the surface of water. Tar-like odor and creosote-like odor observed. Groundwater observed with some tar-like material at 9.5 ft below ground surface.				
15			Bottom of test pit at 10 feet. 				
20							
NOTES:						TEST PIT DIMENSIONS:	
Test pit GPEC-TP318 was executed to determine the location of the former MGP structure - former settling tank of Holder #1 along Maspeth Avenue.						LENGTH 38 ft.	
Datum: New York State Plane NAVD 88						WIDTH 18 ft.	
						DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP318Ex	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler Ace 317 PWO) and Backhoe (CAT 426C)		PROJECT NO. 125180-2-1202	
WEATHER		Mostly Sunny 59°F - 72°F		ELEVATION ~14.15 ft.	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	NORTHING 687215.01
OBSERVED BY		Akin Adegbayi	DATE	10/16/2014	EASTING 649395.11
CHECKED BY		Matt Sweet	DATE	11/7/2014	DATE STARTED 10/16/2014
					DATE FINISHED 10/17/2014
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP 318Ex A (2.5' - 3.0')	8.4	(0.0' - 0.25') Asphalt (0.25' - 0.5') GRAVEL (GW) SUBBASE (0.5' - 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% fine to coarse sand, ~20% coarse gravel up to 4 inch, ~5% fines, black. Slight tar-like odor, soil staining. (4' - 11') SILTY SAND (SM); ~ 65% fine to medium sand, ~25% fines, ~10% fine gravel, moist, brown.		
10	GPEC-TP 318Ex B (10.5'-11.0')	32.5	No Groundwater encountered. Bottom of test pit at 11 ft.		
15					
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine the location of the former MGP structure - former oil room.			LENGTH 3 ft.		
Datum: New York State Plane NAVD 88			WIDTH 10 ft.		
			DEPTH 11 ft.		



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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP319	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 3	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler ACE 371C PWO) and Backhoe (CAT 426C)		ELEVATION ~13.38 ft.	
WEATHER		Sunny 73°F - 90°F		NORTHING 687008.73	
CONTRACTOR		Island Pump & Tank	OPERATOR Ashton Ali	EASTING 649463.17	
OBSERVED BY		Akin Adegbayi	DATE 8/5/2014	DATE STARTED 8/4/2014	
CHECKED BY		Matt Sweet	DATE 11/7/2014	DATE FINISHED 8/5/2014	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description
5	GPEC-TP319A (7.5' - 8')	0.5	(0' - 7.5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~80% fine to coarse sand, ~15% fine to coarse gravel, ~5% silt, brown, moist. Maximum gravel grain size 6". Some fill, wood logs, wood chips, pipe fragments, concrete fragments. Tar-like odor observed.
		1.7	
		108 / 133	Groundwater observed with tar-like material on the surface at ~7.5 feet below ground surface.
10	GPEC-TP319B (7.5' - 8')		(7.5' - 8') Similar soil as above, but wet. Tar-like coating on soil.
			Bottom of test pit at 8 ft.
15			Photograph 1: Looking northeast 
20			

NOTES: New York State Plane NAVD 88 Test pit GPEC-TP319 was executed to determine the location of the former MGP structure - former Drip Pump House of Holder #1 along Maspeth Avenue.	TEST PIT DIMENSIONS: LENGTH 15 ft. WIDTH 10 ft. DEPTH 8 ft.
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP320	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler ACE 371C PWO) and Backhoe (CAT 426C)		ELEVATION ~14.96 ft.	
WEATHER		Sunny 72°F - 87°F		NORTHING 687197.12	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	EASTING 649294.11
OBSERVED BY		Akin Adegbayi	DATE	8/26/2014	DATE STARTED 8/26/2014
CHECKED BY		Matt Sweet	DATE	11/7/2014	DATE FINISHED 8/27/2014

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description
5		0.5	(0' - 12') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% fine to coarse sand, ~25% fine to coarse gravel, brown, black tar staining. Maximum gravel grain size 5". Some scrap metal, concrete fragments, pipes fragments, red brick fragments, wood logs. Tar-like odor observed.
10	GPEC-TP320A (8-8.5)	33.5	
	GPEC-TP320B (10 - 10.5')	30	
			Groundwater with some tar-like material was observed at 11.5 ft below ground surface.
15			Bottom of test pit at 12 ft. 
20			

NOTES: Datum: New York State Plane NAVD 88 Test pit GPEC-TP320 was executed to determine the location of the former MGP structure - former Holder utilities of Holder #1 along Maspeth Avenue.		TEST PIT DIMENSIONS: LENGTH 22 ft. WIDTH 18 ft. DEPTH 12 ft.	
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TEST PIT LOG				TEST PIT NUMBER GPEC-TP321	
PROJECT		Greenpoint Energy Center Phase 2 RI		1	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		OF	
CLIENT		National Grid		3	
EQUIPMENT		Vac Truck (Guzzler ACE 3712 PWO) and Backhoe (Cat 426C)		PROJECT NO. 125180-2-1202	
WEATHER		Cloudy 65°F - 82°F		ELEVATION ~14.23 ft.	
CONTRACTOR		Island Pump & Tank	OPERATOR Ashton Ali	NORTHING 687190.01	
OBSERVED BY		Akin Adegbayi	DATE 9/9/2014	EASTING 649192.22	
CHECKED BY		Matt Sweet	DATE 11/7/2014	DATE STARTED 9/8/2014	
DATE FINISHED 9/11/2014					

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description
			(0' - 4') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% fine to coarse sand, ~20% fine to coarse gravel, ~5% silt, brown, dry. Maximum gravel grain size 5". Some scrap metal fragments, concrete fragments, red brick fragments, fill material. Tar-like odor.
5	GPEC-TP321C (4-4.5')	0.0	(4 - 8') Similar soil as above, wet. Tar-like coating on soil.
	GPEC-TP321D (6'-6.5')	3.4	
	GPEC-TP321A (8'-8.5')	112	Groundwater with some tar-like material observed at 8 ft below ground surface.
10	GPEC-TP321B (8' - 8.5')	110	Bottom of test pit at 8 ft.
15			Photograph 1: CPEC-TP321 Looking East 
20			

NOTES: Datum: New York State Plane NAVD 88 Test pit GPEC-TP321 was executed to determine the location of the former MGP structure - former decanter tank and light oil tank by Holder 1 along Maspeth Avenue.		TEST PIT DIMENSIONS: LENGTH 30 ft. WIDTH 28 ft. DEPTH 8 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP322	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 6	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler ACE 3712 PWO) and Backhoe (Cat 426C)		ELEVATION ~14.19 ft.	
WEATHER		Cloudy 65°F - 82°F		NORTHING 686947.12	
CONTRACTOR		Island Pump & Tank	OPERATOR Ashton Ali	EASTING 649289.23	
OBSERVED BY		Akin Adegbayi	DATE 8/4/2014	DATE STARTED 8/4/2014	
CHECKED BY		Matt Sweet	DATE 11/7/2014	DATE FINISHED 8/29/2014	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description
5	GPEC-TP322A (3.5'-4')	0.5	(0' - 3.5') WIDELY GRADED SAND AND GRAVEL (SW); ~80% fine to coarse sand, ~20% fine to coarse gravel, brown, moist. Slight tar-like odor observed.
		133	
		(3.5' - 7.5')	WIDELY GRADED SAND AND GRAVEL (SW); ~80% fine to coarse sand, ~20% fine to coarse gravel, black, wet. Some fill material, wood chips fragments, metal scrap, metal coupling, pipe fragment, red brick and concrete fragments. Coating of tar-like material on soil. Some tar-like material was observed on groundwater. Tar-like odor observed.
10	GPEC-TP322B (7' - 7.5')	108	
			Bottom of test pit at 7.5 ft. Photograph 1 Looking East
15			
20			

NOTES: Datum: New York State Plane NAVD 88 Test pit GPEC-TP322 was executed to determine the location of the former MGP structure - former settling tank and tar conditioner of Holder #1 along Maspeth Avenue.		TEST PIT DIMENSIONS: LENGTH 35 ft. WIDTH 15 ft. DEPTH 7.5 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP323	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler ACE 317C) and Backhoe (CAT 430D)		PROJECT NO. 125180-2-1202	
WEATHER		Cloudy 71°F - 83°F		ELEVATION ~18.91 ft.	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	NORTHING 6870950.21
OBSERVED BY		Akin Adegbayi	DATE	7/31/2014	EASTING 648840.11
CHECKED BY		Jimmy Cheung	DATE	8/20/2014	DATE STARTED 7/31/2014
					DATE FINISHED 8/1/2014
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description		
5	GPEC-TP323A (4' - 4.5')	0.0	(0' - 0.5') NARROWLY GRADED GRAVEL WITH SAND (GP); ~80% fine to coarse gravel, ~20% sand, brown, dry. Maximum gravel grain size 3/4 inch.		
		0.0	(0.5' - 2.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% fine to coarse sand, ~15% medium to coarse gravel, ~5% fines, gray, damp. Some ash/cinder and red brick fragments.		
		0.0	(2.5' - 3.5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to medium sand, ~25% fines, 5% gravel, brown, damp.		
		0.0	(3.5' - 5.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% fine to coarse sand, ~20% gravel, black, moist.		
	10	GPEC-TP323B (8' - 8.5')	0.0	(5.5' - 8.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% fine to coarse sand, 15% fine to coarse gravel, ~5% silt, gray, damp. Some concrete fragments, red brick fragments, and glass fragments.	
		0.0	No groundwater observed.		
15	Bottom of test pit at 8.5 ft.				
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to investigate former waste area, east of Vandervoort Avenue.			LENGTH 8 ft.		
Datum: New York State Plane NAVD 88			WIDTH 5 ft.		
			DEPTH 8.5 ft.		

DRAFT



TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP324	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 3	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler ACE 317C) 430D CAT Backhoe		ELEVATION ~14.17 ft.	
WEATHER		Sunny 68°F - 81°F		NORTHING 687232.11	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	EASTING 648909.23
OBSERVED BY		Akin Adegbayi	DATE	7/30/2014	DATE STARTED 7/30/2014
CHECKED BY		Jimmy Cheung	DATE	8/20/2014	DATE FINISHED 7/30/2014

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description
5	GPEC-TP324A (7' - 7.5') GPEC-TP324B	0.0	(0' - 1.5') Topsoil, grass roots, moist.
		0	(1.5' - 5') WIDELY GRADED SAND WITH SILT (SW-SM); ~75% fine to coarse sand, ~15% fines, ~10% medium to coarse gravel, brown, damp. Maximum gravel grain size 4". Some fill, red bricks, and steel scraps.
		8.9	(5' - 8') NARROWLY GRADED SAND (SP); ~90% fine to medium sand, ~10% fine to coarse gravel, dark gray to black, wet.
10	(7' - 7.5') GPEC-TP324C (7.5' - 8')	10.5/19.6	Bottom of test pit at 8 ft.
		8.5	
20			Photograph 1: GPEC-TP324  Photograph 2: bottom of test pit  DRAFT

NOTES: Datum: New York State Plane NAVD 88 Test pit GPEC-TP324 was executed to determine the location of the former MGP structure - former Settling Tank of Holder #2 along Maspeth Avenue.		TEST PIT DIMENSIONS: LENGTH 20 ft. WIDTH 15 ft. DEPTH 8 ft.	
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TEST PIT LOG				TEST PIT NUMBER																	
PROJECT		Greenpoint Energy Center Phase 2 RI																			
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211																			
CLIENT		National Grid																			
EQUIPMENT		Vac Truck (Guzzler ACE 417D and Backhoe (CAT 430D)																			
WEATHER		Mostly Sunny 71°F - 83°F																			
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali																	
OBSERVED BY		Akin Adegbayi	DATE	7/25/2014																	
CHECKED BY		Jimmy Cheung	DATE	8/20/2014																	
		<table border="1"> <thead> <tr> <th colspan="2">TEST PIT NUMBER</th> </tr> <tr> <th>1</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>PROJECT NO.</td> <td>125180-2-1202</td> </tr> <tr> <td>ELEVATION</td> <td>~14.41 ft.</td> </tr> <tr> <td>NORTHING</td> <td>687388</td> </tr> <tr> <td>EASTING</td> <td>648939</td> </tr> <tr> <td>DATE STARTED</td> <td>7/25/2014</td> </tr> <tr> <td>DATE FINISHED</td> <td>7/25/2014</td> </tr> </tbody> </table>				TEST PIT NUMBER		1	3	PROJECT NO.	125180-2-1202	ELEVATION	~14.41 ft.	NORTHING	687388	EASTING	648939	DATE STARTED	7/25/2014	DATE FINISHED	7/25/2014
TEST PIT NUMBER																					
1	3																				
PROJECT NO.	125180-2-1202																				
ELEVATION	~14.41 ft.																				
NORTHING	687388																				
EASTING	648939																				
DATE STARTED	7/25/2014																				
DATE FINISHED	7/25/2014																				
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description																		
5	GPEC-TP325A (3'-3.5') GPEC-TP325B (4' - 4.5')	0.0	(0.0' - 0.5') Topsoil, grass roots, damp.																		
		0.3	(0.5' - 4.5') NARROWLY GRADED SAND (SP) ~80% fine to coarse sand, ~15% fine to medium gravel, ~5% fines, brown, moist. Tar-like material was observed in the western and middle pipes. Slight tar-like odor observed.																		
		0.2	Some tar blebs observed on the perched water surface after using the vac truck to excavate to 4 ft. Pipes corroded. The middle pipe appeared to be fractured / broken. Ends of each pipe are capped except one end of the T-fitting East most pipe. Tar-like material was observed in the western and middle pipes. Groundwater observed at 3.5 ft below ground surface.																		
			Bottom of test pit at 4.5 ft.																		
10			Photograph 1: GPEC-TP325B 																		
15			Photograph 2: Tar staining 																		
20																					
NOTES:			TEST PIT DIMENSIONS:																		
New York State Plane NAVD 88			LENGTH 8 ft.																		
Test pit GPEC-TP-325 was executed to determine the location of former MGP structures of the former Holder #2 valve chamber and utilities.			WIDTH 8 ft.																		
			DEPTH 4.5 ft.																		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP325Ex	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler ACE 371C PWO) and Backhoe (CAT 426C)		PROJECT NO. 125180-2-1202	
WEATHER		Sunny 72°F - 87°F		ELEVATION ~14.19 ft	
CONTRACTOR		Island Pump & Tank	OPERATOR Ashton Ali	NORTHING 687351.11	
OBSERVED BY		Akin Adegbayi	DATE 9/12/2014	EASTING 648954.23	
CHECKED BY		Akin Adegbayi	DATE 11/10/2014	DATE STARTED 9/1/2014	
				DATE FINISHED 9/17/2014	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description		
0.0			(0.0' - 0.5') Topsoil, grass roots, damp.		
			(0.5' - 4.0') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM) ~75% fine to coarse brown - black sand, ~15% fine to coarse gravel, (max.size 4 inches in diameter) ~10% fines, brown, moist. Concrete fragments, scrap metals, red bricks fragments and wood chips. Slight tar-like odor observed.		
			(4.0' - 10.0') Similar to soil above but black soil staining observed.		
5			Groundwater with some tar-like material was observed at ~8 ft below ground surface.		
10	GPEC-TP325C	0.3	Bottom of test pit at 10 ft.		
15	(9.5'-10')				
20					
NOTES:				TEST PIT DIMENSIONS:	
Datum: New York State Plane NAVD 88				LENGTH 40 ft.	
Test pit GPEC-TP-325Ex was executed to determine the location of former MGP structures of the former Holder #2.				WIDTH 12 ft.	
				DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 2 RI		GPEC-TP326	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 2	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Guzzler ACE 317D) and 430D CAT Backhoe		ELEVATION ~14.51 ft.	
WEATHER		Mostly Sunny 71°F - 83°F		NORTHING 687386	
CONTRACTOR		Island Pump & Tank	OPERATOR	Ashton Ali	
OBSERVED BY		Akin Adegbayi	DATE	8/7/2014	
CHECKED BY		Jimmy Cheung	DATE	8/20/2014	
DATE FINISHED		7/31/2014			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description		
5	GPEC-TP326E (7.5' - 8')	0.0	(0' - 0.5') Topsoil.		
		0.0	(0.5' - 2.5') WIDELY GRADED GRAVEL WITH SAND (GW); ~75% medium to coarse gravel, ~25% fine to coarse sand, brown, dry. Some compacted gravelly fill/rubble fragments, metal scraps, bricks, wood chips.		
		0.0	(2.5' - 8') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% medium to coarse sand, ~25% fine to coarse gravel, brown, dry. Some compacted gravelly fill/rubble fragments, metal scraps, bricks, wood chips.		
		0.0	(8' - 8.5') NARROWLY GRADED SAND (SP); 90% fine to medium sand, 10% fine gravel, tan, moist.		
10	GPEC-TP326NE (8' - 8.5')		Bottom of test pit at 8 ft.		
15			Photograph 1: GPEC-TP326 Looking South  Photograph 2: GPEC-TP326 Looking Southwest 		
20					
NOTES:			TEST PIT DIMENSIONS:		
Datum: New York State Plane NAVD 88			LENGTH 15 ft.		
Test pit GPEC-TP-326 was executed to determine the location of former MGP structures - the former settling tank of Maspeth Ave Holder #2.			WIDTH 15 ft.		
			DEPTH 8.5 ft.		
					

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TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)			GPEC-TP400	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) and Chipping gun & Generator, and some hand tools.			ELEVATION ~12.44 ft	
WEATHER		Partly cloudy 65°F - 70°F			NORTHING 687516.7348	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 649542.4392	
OBSERVED BY		Akin Adegbayi	DATE	4/18/2016	DATE STARTED 4/18/2016	
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 4/19/2016	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5		0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
10	GPEC-TP400 (9.5-10.0')	0.0	~(0.25-6') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse brown sand; ~20% Fine to coarse gravel, max size up to 12 inches in diameter, ~10% non-plastic fines, contains some cobbles and concrete Metal scrap-wire. Foundation footing observed.
15		0.0	~(6-10') coarse gravel, max size up to 12 inches in diameter, ~10% non-plastic fines, trace cobbles and concrete fragments, Wet. Groundwater was observed at 10 ft. No observed impact. Test pit was backfilled on a reversed basis.
20			Bottom of Test Pit at ~10.0 ft.

Photograph 1: GPEC-TP400



Photograph 2:



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NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.	TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 10 ft.
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP401	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) and Chipping gun & Generator and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Partly cloudy 65°F - 70°F		NORTHING 687558.4484	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 649635.9052
OBSERVED BY		Akin Adegbayi	DATE	4/19/2016	DATE STARTED 4/19/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 4/19/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5		0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
10	GPEC-TP401 (9.5-10.0')	0.2	~(0.25-10) WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse brown sand; ~20% Fine to coarse gravel, max size 12 inches in diameter, angular, ~10% non-plastic fines, contains some cobbles and concrete fragments. Some red bricks fragments and cinders, metal scrap-wire. (FILL) Foundation footing observed. No observed impact. Groundwater was observed at 9.5 ft. Test pit was backfilled on a reversed basis.
15			Bottom of Test Pit at ~10.0 ft.
20			Photograph 1: GPEC-TP401  Photograph 2: 

NOTES:		TEST PIT DIMENSIONS	
Test pit to determine location of former MGP structures.		LENGTH	10 ft.
Datum: New York State Plane NAVD 88.		WIDTH	4 ft.
		DEPTH	10 ft.



TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP402	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler), Backhoe (CAT 426C) and Chipping gun & Generator.		ELEVATION ~12.44 ft	
WEATHER		Mostly Sunny 50°F - 60°F		NORTHING 687604.0347	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 649682.4102
OBSERVED BY		Akin Adegbayi	DATE	4/20/2016	DATE STARTED 4/20/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 4/20/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
		0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
5	GPEC-TP402 (9.5-10.0')	0.0	~(0.25-10) WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse brown sand; ~20% Fine to coarse gravel, max size 12 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains some cobbles and concrete fragments. Some red bricks fragments, white ash and cinders, ceramic and glass fragment, metal scrap- Foundation footing observed. No observed impact in soil and water- some green-grayish clay-like residue observed. Groundwater was observed at 10ft. bgs. Test pit was backfilled on a reversed basis.
10			Bottom of Test Pit at ~10.0 ft.
15			Photograph 1: GPEC-TP402  Photograph 2: 
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 8 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP403	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) Chipping gun & Generator and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Mostly Sunny 50°F - 60°F		NORTHING 687485.6974	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 649734.7202
OBSERVED BY		Akin Adegbayi	DATE	4/27/2016	DATE STARTED 4/21/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 4/27/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
0.0			~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
1.3			~(0.25-7.0') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% fine to coarse brown sand; ~25% coarse gravel with cobbles, max size 12 inches in diameter, sub-angular to angular, ~5% non-plastic fines, contains concrete fragments. Some red bricks fragments, ash, cinders, some wood chips, glass fragment and metal scrap (FILL). Wet. Groundwater was observed at approximately 7 ft. No observed impact. Test pit was backfilled on a reversed basis.
Bottom of Test Pit at ~7.0 ft.			
Photograph 1: GPEC-TP403  Photograph 2: 			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 15 ft. WIDTH 4 ft. DEPTH 7 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP405	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) and Chipping gun & Generator and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Mostly Sunny 50°F - 60°F		NORTHING 687607.5136	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 650192.5471
OBSERVED BY		Akin Adegbayi	DATE	4/22/2016	DATE STARTED 4/22/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 4/22/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
		0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
5		0.2	~(0.25-6') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse brown sand; ~20% Fine to coarse gravel, max size 12 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains concrete fragments. Some red bricks fragments, white and black ash, cinders, some burnt wood and rubber, metal scrap (FILL). Trace soil staining observed.
▽	GPEC-TP405 (6.5-7.0')	0.0	~(6-7') NARROWLY GRADED SAND (SP); ~90% fine to medium grey sand; ~5% coarse gravel, max size 2 inches in diameter, sub-angular to angular, ~5% non-plastic fines. No observed impact. Groundwater was observed at approximately 7ft. bgs. Test pit was backfilled on a reversed basis.
10			Bottom of Test Pit at ~7.0 ft.
15			Photograph 1: GPEC-TP405  Photograph 2: 
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 7 ft.	
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TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)				GPEC-TP406	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211					
CLIENT		National Grid				1 OF 1	
EQUIPMENT		Vac Truck (Vactor Guzzler) and Chipping gun & Generator.				PROJECT NO. 125180-2-1202	
WEATHER		Mostly Sunny 50°F - 60°F				ELEVATION ~12.44 ft	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ		NORTHING 687620.7619	
OBSERVED BY		Akin Adegbayi	DATE	4/22/2016		EASTING 650228.2848	
CHECKED BY		Devin Byrne	DATE	5/25/2016		DATE STARTED 4/26/2016	
						DATE FINISHED 4/26/2016	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks				
5	GPEC-TP406 (6.5-7.0)	0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)				
			~(0.25-1.0') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% fine to coarse brown sand; ~25% coarse gravel, max size 4 inches in diameter, sub-angular to angular, ~5% non-plastic fines.				
		0.2	~(1-1.5') Weathered concrete slab-layer with re-bar				
			~(1.5-2.0') NARROWLY GRADED SAND (SP) ; ~100% fine to medium utility bedding sand, tan. Retired 2" diameter utility steel East -West direction.				
		0.3	~(2.0-7') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse brown sand; ~20% Fine to coarse gravel, max size 12 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains concrete fragments. Some red bricks fragments, ash, cinders, some wood chips, metal scrap (FILL). Trace soil staining observed. Wet. Groundwater was observed at approximately 7 ft. Trace sheen on groundwater.				
10			Test pit was backfilled on a reversed basis. Bottom of Test Pit at ~7.0 ft.				
15			Photograph 1: GPEC-TP406  Photograph 2: 				
20							
NOTES:						TEST PIT DIMENSIONS:	
Test pit to determine location of former MGP structures.						LENGTH 10 ft.	
Datum: New York State Plane NAVD 88.						WIDTH 4 ft.	
						DEPTH 7 ft.	
							

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP407	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) Chipping gun & Generator and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Mostly Sunny 50°F - 60°F		NORTHING 687817.17	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 650186.161
OBSERVED BY		Akin Adegbayi	DATE	4/29/2016	DATE STARTED 4/29/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 4/29/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP407 (6.5-7.0')	0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
		78.0	~(0.25-7.0') WIDELY GRADED GRAVEL WITH SAND (GW); ~65% fine to coarse gravel; with cobbles, max size 12 inches in diameter, sub-angular to angular, ~30% widely graded brown sand, fine to coarse ~5% non-plastic fines, contains concrete fragments. Some red bricks fragments, rubber fragment, some wood chips and metal scrap (FILL). Wet. Trace to moderate petroleum-like odor and trace sheen and soil staining. Groundwater was observed at ~7 ft. Test pit was backfilled on a reversed basis.
10			Bottom of Test Pit at ~7.0 ft.
15			Photograph 1: GPEC-TP407 
20			Photograph 2: 

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 7 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP408	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) Chipping gun & Generator and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Mostly Sunny 50°F - 60°F		NORTHING 687812.1928	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 650205.0006
OBSERVED BY		Akin Adegbayi	DATE	5/2/2016	DATE STARTED 5/2/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 5/2/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP408 (6.5-7.0)	0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
		0.2	~(0.25-7.0') WIDELY GRADED GRAVEL WITH SAND (GW); ~65% fine to coarse gravel; with cobbles, max size 14 inches in diameter, sub-angular to angular, ~30% widely graded brown sand, fine to coarse ~5% non-plastic fines, contains concrete fragments. Some red bricks fragments, some wood chips and metal scrap (FILL). Moist. No observed impact. Groundwater was observed at approximately 7 ft. Test pit was backfilled on a reversed basis.
10			Bottom of Test Pit at ~7.0 ft.
15			Photograph 1: GPEC-TP408  Photograph 2: 
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 7 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP409	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler), Backhoe (CAT 426C) and Chipping gun & Generator.		ELEVATION ~12.44 ft	
WEATHER		Mostly cloudy 43°F - 77°F		NORTHING 687847.4685	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 650330.6476
OBSERVED BY		Akin Adegbayi	DATE	5/11/2016	DATE STARTED 5/11/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 5/11/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP409 (9-9.5')	0.0	~(0-0.4') Through asphalt pavement
			~(0.4-0.6') Gravel subbase (~3/4" diameter)
			~(0.6-2.5') NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~75% fine to medium brown sand; ~15% coarse gravel, max size 6 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains some cobbles and concrete fragments. Moist. Trace red bricks fragments, metal scrap. (FILL).
10	GPEC-TP409 (9-9.5')	0.0	~(2.5-8') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% fine to coarse brown sand; ~20% coarse gravel, max size 6 inches in diameter, sub-angular to angular, ~10% non-plastic fines, (3" thick lense of black ash) Trace red bricks and concrete fragments. Moist, some metal scrap fragment (FILL).
			~(8-10') WIDELY GRADED GRAVEL (GW); ~100% coarse; max size 2 inches in diameter, angular. Cinders, black, and white ash residue, some burnt material, coal-like and slag-like material. Wet. Groundwater observed at ~9.5ft bgs. No observed impact. Test pit was backfilled on a reversed basis.
15			Bottom of Test Pit at ~10.0 ft.
20			Photograph 1: GPEC-TP409  Photograph 2: 

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 5 ft. WIDTH 4 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER GPEC-TP411	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)			
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Vactor Guzzler) and Chipping gun & Generator and some hand tools.			
WEATHER		Partly cloudy 52°F - 62°F			
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	
OBSERVED BY		Akin Adegbayi	DATE	5/10/2016	
CHECKED BY		Devin Byrne	DATE	5/25/2016	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP411 No sample due to refusal.	0.0	~(0-5') WIDELY GRADED GRAVEL (GW); ~75% coarse gravel and red bricks, max size 6 inches in diameter, sub-angular to angular, ~20% fine to coarse brown sand; 5% non-plastic fines, contains some cobbles and concrete fragments. (Construction debris) Moist. Trace metal scrap. (FILL). Concrete footing/foundation observed in the general area. Perched groundwater observed at approximately 5 ft bgs. with sewer-like odor. Test pit was backfilled on a reversed basis		
10			Refusal at ~5.0 ft.		
15			Photograph 1: GPEC-TP411  Photograph 2:  Photograph 3:  Photograph 4: 		
20					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 4 ft.		
			DEPTH 5 ft.		

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TEST PIT LOG				TEST PIT NUMBER GPEC-TP412	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)			
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Vactor Guzzler) and Chipping gun & Generator and some hand tools.			
WEATHER		Partly cloudy 55°F - 75°F			
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	
OBSERVED BY		Akin Adegbayi	DATE	5/9/2016	
CHECKED BY		Devin Byrne	DATE	5/25/2016	
PROJECT NO.		125180-2-1202			
ELEVATION		~12.44 ft			
NORTHING		687924.4817			
EASTING		650370.7541			
DATE STARTED		5/9/2016			
DATE FINISHED		5/9/2016			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5 ▽ 10 15 20	GPEC-TP412 (9.5-10.0')	0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)		
		0.0	~(0.25-8') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse brown sand; ~20% Fine to coarse gravel, max size 12 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains some cobbles and concrete fragments. Moist. Trace red bricks fragments, metal scrap. (FILL). Concrete footing/foundation observed.		
		48	~(6-10') SILTY SAND WITH GRAVEL (SM); ~65% fine to medium grey sand; ~15% coarse gravel, max size 4 inches in diameter, subrounded, sub-angular to angular, ~20% non-plastic fines. Trace organic-like odor. Moist. No groundwater encountered. No observed impact. Test pit was backfilled on a reversed basis.		
Bottom of Test Pit at ~10.0 ft.			Photograph 1: GPEC-TP412  Photograph 2: 		
NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.			TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 10 ft.		

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TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)				GPEC-TP413	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				1 OF 1	
CLIENT		National Grid				PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) and Chipping gun & Generator and some hand tools.				ELEVATION ~12.44 ft	
WEATHER		Mostly Sunny 50°F - 60°F				NORTHING 687943.6156	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ		EASTING 650293.9263	
OBSERVED BY		Akin Adegbayi	DATE	5/4/2016		DATE STARTED 5/3/2016	
CHECKED BY		Devin Byrne	DATE	5/25/2016		DATE FINISHED 5/4/2016	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP413 (9.5-10.0')	0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
10		0.0	~(0.25-5') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% fine to coarse brown sand; ~15% Fine to coarse gravel, max size 12 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains some cobbles and concrete fragments. Moist. Concrete footing/foundation observed adjacent to the test pit.
15		65.9	~(5-10') WIDELY GRADED GRAVEL (GW); ~100% coarse gravel, max size 4 inches in diameter, sub-angular to angular, moist, cinder/ash, concrete and red brick fragment, trace wood chips, glass fragment, some burnt material, (FILL) slight to moderate petroleum odor, trace soil staining and sheen on groundwater. Groundwater was observed at approximately 10.5 ft. Test pit was backfilled on a reversed basis.
20			Bottom of Test Pit at ~10.5 ft.

Photograph 1: GPEC-TP413



Photograph 2:



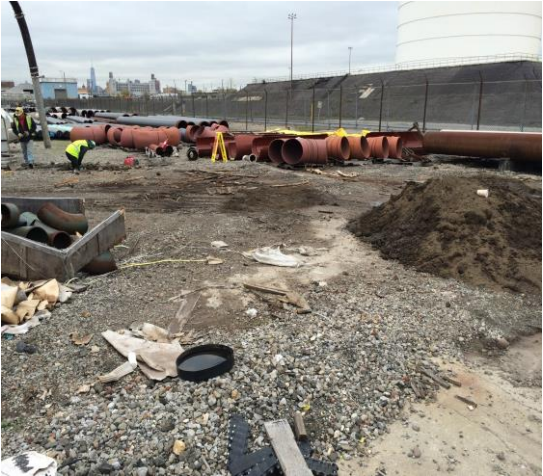
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NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS:	
LENGTH		WIDTH	
	10 ft.		4 ft.
DEPTH			10.5 ft.



TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP414	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Vactor Guzzler) Chipping gun & Generator and some hand tools.		PROJECT NO. 125180-2-1202	
WEATHER		Cloudy and raining 49°F - 55°F		ELEVATION ~12.44 ft	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	NORTHING 687984.7682
OBSERVED BY		Akin Adegbayi	DATE	5/6/2016	EASTING 650334.6774
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE STARTED 5/6/2016
					DATE FINISHED 5/6/2016
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
		0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)		
	GPEC-TP414 (7.5-8.0')	0.0	~(0.25-8.0') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% fine to coarse brown-black sand; ~15% fine to coarse gravel, max size 6 inches in diameter, sub-angular to angular, ~5% non-plastic fines, contains concrete and red bricks fragments, some metal scraps and broken pipe. (FILL) Wet. Slight to moderate petroleum-like odor and trace soil staining and sheen. Groundwater observed at approximately 8ft bgs. Concrete footing/foundation. Test pit was backfilled on a reversed basis.		
			Bottom of Test Pit at ~8.0 ft.		
			Photograph 1: GPEC-TP414  Photograph 2: 		
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 4 ft.		
			DEPTH 8 ft.		

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP415	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler) Chipping gun & Generator and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Cloudy and raining 45°F - 55°F		NORTHING 688041.7468	
CONTRACTOR		O'Leary Construction	OPERATOR PJ	EASTING 650250.929	
OBSERVED BY		Akin Adegbayi	DATE 5/5/2016	DATE STARTED 5/4/2016	
CHECKED BY		Devin Byrne	DATE 5/5/2016	DATE FINISHED 5/5/2016	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
			0.0 ~ (0-0.25') SURFACE GRAVEL (GRAVEL AREA) 0.0 ~ (0.25-6.0') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~75% fine to coarse brown sand; ~15% coarse gravel with cobbles, max size 8 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains concrete fragments. Some red bricks fragments, trace black ash, cinders, some wood chips, (FILL). Moist. Concrete footing/foundation observed in the area. 0.0 ~ (6-8.0') SILTY SAND WITH GRAVEL (SM); ~65% fine to medium light brown sand; ~15% coarse gravel with cobbles, max size 6 inches in diameter, sub-angular to angular, ~20% non-plastic fines. Some red bricks fragments. No observed impact. Groundwater was observed at approximately 8 ft. Test pit was backfilled on a reversed basis.
GPEC-TP415 (7.5-8.0')			Bottom of Test Pit at ~8.0 ft. Photograph 1: GPEC-TP415  Photograph 2: 

NOTES:

Test pit to determine location of former MGP structures.

Datum: New York State Plane NAVD 88.

TEST PIT DIMENSIONS:

LENGTH	10 ft.
WIDTH	4 ft.
DEPTH	8 ft.

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TEST PIT LOG				TEST PIT NUMBER GPEC-TP416	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		1 OF 1	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		PROJECT NO. 125180-2-1202	
CLIENT		National Grid		ELEVATION ~12.44 ft	
EQUIPMENT		Vac Truck (Vactor Guzzler), Backhoe (CAT 426C) and Chipping gun & Generator.		NORTHING 687987.712	
WEATHER		Mostly Sunny 50°F - 60°F		EASTING 650434.9687	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	DATE STARTED 5/2/2016
OBSERVED BY		Akin Adegbayi	DATE	5/3/2016	DATE FINISHED 5/3/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
		0.0	~(0-0.25') SURFACE GRAVEL (GRAVEL AREA)
5		0.0	~(0.25-6') WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse brown sand; ~20% Fine to coarse gravel, max size 12 inches in diameter, sub-angular to angular, ~10% non-plastic fines, contains some cobbles and concrete fragments. Moist. Trace red bricks fragments, metal scrap. (FILL). No groundwater encountered. No observed impact.
	GPEC-TP416 (9.5-10.0')	0.0	~(6-10') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% fine to coarse reddish-brown sand; ~15% Fine to coarse gravel, max size 4 inches in diameter, subrounded, sub-angular to angular, ~5% non-plastic fines. Moist. No groundwater encountered. No observed impact. Test pit was backfilled on a reversed basis.
10			Bottom of Test Pit at ~10.0 ft.
15			Photograph 1: GPEC-TP416  Photograph 2: 
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP417	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Vac Truck (Vactor Guzzler), Backhoe (CAT 426C) and Chipping gun & Generator.		ELEVATION ~12.44 ft	
WEATHER		Mostly Sunny 50°F - 60°F		NORTHING 687938.3284	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 650544.7285
OBSERVED BY		Akin Adegbayi	DATE	5/13/2016	DATE STARTED 5/13/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 5/13/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP417 (9.5-10.0')	0.0	~(0-8') WIDELY GRADED SAND WITH GRAVEL (SW); ~80% fine to coarse brown sand; ~15% coarse gravel max size 6 inches in diameter, sub-angular to angular, ~5% non-plastic fines, contains some cobbles, concrete fragments red bricks fragments, trace metal scrap. (FILL). Utility bedding tan-sand was observed on the sidewall of test pit.
10		0.0	~(8-10') NARROWLY GRADED SAND (SP); ~95% fine to medium brown sand; ~5% Fine gravel, max size 0.5 inches in diameter, sub-angular to angular. Moist. No groundwater encountered. No observed impact. Test pit was backfilled on a reversed basis.
15			Bottom of Test Pit at ~10.0 ft.
20			Photograph 1: GPEC-TP417  Photograph 2: 

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 10 ft.	
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TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)				GPEC-TP418	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				1 OF 1	
CLIENT		National Grid				PROJECT NO. 125180-2-1202	
EQUIPMENT		Backhoe (CAT 426C) and some hand tools.				ELEVATION ~12.44 ft	
WEATHER		Clear and sunny 60°F - 73°F				NORTHING 688183.2658	
CONTRACTOR		O'Leary Construction	OPERATOR		PJ	EASTING 650685.6945	
OBSERVED BY		Akin Adegbayi	DATE		5/12/2016	DATE STARTED 5/12/2016	
CHECKED BY		Devin Byrne	DATE		5/25/2016	DATE FINISHED 5/12/2016	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
 5	GPEC-TP418 (4-4.5')	19	~ (0-0.5') Through old asphalt and gravel sub-base in the pipe laydown area. (Stores) ~ (0.5-5') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% fine to coarse black sand, ~25% coarse gravel, max size 12 inches in diameter, sub-angular to angular, 5% non-plastic fines, contains some cobbles, red bricks and concrete fragments. Wood chips fragment, ceramics/tiles fragments. Trace metal scrap. (FILL). Groundwater observed at approximately 5 ft bgs. Trace sheen on water and trace petroleum-like odor. Some coal-like material. Test pit was backfilled on a reversed basis.
10			Bottom of Test Pit at ~5.0 ft. Photograph 1: GPEC-TP418  Photograph 2: 
15			Photograph 3: 
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 4 ft. DEPTH 5 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP419	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Backhoe (CAT 426C) and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Clear and sunny 60°F - 73°F		NORTHING 688071.7107	
CONTRACTOR		O'Leary Construction	OPERATOR PJ	EASTING 650657.2208	
OBSERVED BY		Akin Adegbayi	DATE 5/12/2016	DATE STARTED 5/12/2016	
CHECKED BY		Devin Byrne	DATE 5/25/2016	DATE FINISHED 5/12/2016	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP419 (4-4.5')	1.7	~(0-0.5') Through old asphalt and gravel sub-base in the pipe laydown area. (Stores) ~(0.5-5') WIDELY GRADED SAND WITH GRAVEL (SW); ~70% fine to coarse black sand, ~25% coarse gravel, max size 6 inches in diameter, sub-angular to angular, 5% non-plastic fines, contains some cobbles, red bricks and concrete fragments. Wood chips fragment, ceramics/tiles fragments. Trace metal scrap. (FILL). Groundwater observed at approximately 4.5 ft bgs. Trace sheen on water. Test pit was backfilled on a reversed basis.
10			Bottom of Test Pit at ~5.0 ft.
15			 Photograph 1: GPEC-TP419  Photograph 2:  Photograph 3:  Photograph 4:
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 3 ft. DEPTH 5 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI (Area 7)		GPEC-TP420	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-2-1202	
EQUIPMENT		Backhoe (CAT 426C) and some hand tools.		ELEVATION ~12.44 ft	
WEATHER		Clear and sunny 60°F - 73°F		NORTHING 688203.8086	
CONTRACTOR		O'Leary Construction	OPERATOR	PJ	EASTING 650751.5543
OBSERVED BY		Akin Adegbayi	DATE	5/12/2016	DATE STARTED 5/12/2016
CHECKED BY		Devin Byrne	DATE	5/25/2016	DATE FINISHED 5/12/2016

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
▽	GPEC-TP420 (3-3.5')	0.0	~(0-0.5') Through old asphalt and gravel sub-base in the pipe laydown area. (Stores) ~(0.5-3.5') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% fine to coarse brown to black sand, ~20% coarse gravel, max size 6 inches in diameter, sub-angular to angular, ~5% non-plastic fines, contains some cobbles, red bricks. Wood chips fragment, ceramics/tiles fragments. Trace metal scrap. (FILL). Groundwater observed at approximately 3.5 ft bgs. Some coal-like material. No observed impact. Test pit was backfilled on a reversed basis.
5			Bottom of Test Pit at ~3.5.0 ft.
10			Photograph 1: GPEC-TP420  Photograph 2: 
15			Photograph 3:  Photograph 4: 
20			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 3 ft. DEPTH 3.5 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Supplemental Investigation (Area 7)		GPEC-TP421	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-4-1401	
EQUIPMENT		Excavator (CAT 426C) and some hand tools.		ELEVATION ~12.11 ft	
WEATHER		Cloudy 48°F - 63°F		NORTHING 687855.2109	
CONTRACTOR		East End Materials	OPERATOR Mike	EASTING 650200.9155	
OBSERVED BY		Rich Crockett	DATE 5/8/2017	DATE STARTED 5/8/2017	
CHECKED BY		George Holmes	DATE 5/19/2017	DATE FINISHED 5/17/2017	

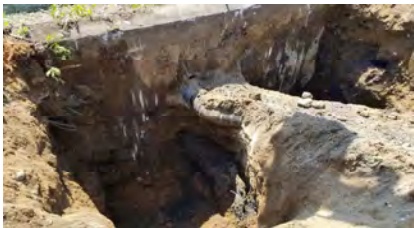
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP421 (1-3)	650	~ (0-0.5') Asphalt and base. ~ (0.5-5') SILTY SAND WITH GRAVEL (SM); ~60% fine to coarse sand, ~20% fine to coarse gravel, max size 3 inches in diameter, angular to subrounded, ~20% non-plastic fines, contains pieces of wood, red brick, and concrete. (FILL). Groundwater observed at approximately 3 ft bgs. NAPL blebs, sheen, black staining, and a strong naphthalene-like odor. Test pit was backfilled with RCA.
10			Bottom of Test Pit at ~5.0 ft. Photograph 1: GPEC-TP421  Photograph 2:  Photograph 3:  Photograph 4: 
15			
20			

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NOTES: Test pit to install drainage structures as part of a capital improvement project for the Site. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 5 ft. DEPTH 5 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP501	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 39.1	
WEATHER		Clear, 87F		NORTHING 688367.01	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 649103.57
OBSERVED BY		Rich Crockett	DATE	7/31/2017	DATE STARTED 7/31/2017
CHECKED BY		George Holmes	DATE	8/16/2017	DATE FINISHED 7/31/2017

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP501 (7-8)	0.0	(0-3') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine ~5% rounded-subangular gravel up to 3.5", ~15% non-plastic fines, contains fragmented concrete and brick, cobbles and boulders, brown, moist, FILL.
		0.0	
		0.0	
		0.7	(3-7') Similar to above, staining, burnt odor, FILL. Several pipes going into foundation wall at 3' below ground surface (bgs).
		12.8	
		19.9	
		27.2	
		179.8	(7-10') Similar to above, petroleum like odor, FILL. Base of foundation wall observed at 9' bgs. Test pit was backfilled on reverse basis.
		166.7	
		162.8	
10		58.5	Bottom of Test Pit at ~10.0 feet. Photograph 1: Excavation and piping looking south.  Photograph 2: Stained soils and wall. 

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP502	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 39.0	
WEATHER		Clear, 91F		NORTHING 688360.75	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 649059.54
OBSERVED BY		Rich Crockett	DATE	8/1/2017	DATE STARTED 8/1/2017
CHECKED BY		George Holmes	DATE	8/16/2017	DATE FINISHED 8/1/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP502 (3-4)	0.0	(0-3') SILTY SAND (SM); ~65% fine to coarse sand, mostly fine ~5% rounded-subangular gravel up to 3.5", ~30% non-plastic fines, contains fragmented concrete and brick, cobbles and boulders, dark brown-brown, moist, FILL.		
		0.0			
		0.9			
		2.7	(3-10') Similar to above, staining, ash, burnt odor, slight petroleum like odor, FILL. No observed impacts 2' to 3' from the foundation wall. Base of foundation wall observed at 9' below ground surface (bgs). Test pit backfilled on a reverse basis.		
		1.2			
		0.9			
		1.1			
		0.5			
		1.3			
		0.3			
10		0.1	Bottom of Test Pit at ~10.0 feet. Photograph 1: Impacted soils pinch out to the north.  Photograph 2: Stained soils and wall. 		
			DRAFT		
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of underground utilities.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 5 ft.		
			DEPTH 10 ft.		

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP503	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 41.3	
WEATHER		Cloudy, 82F		NORTHING 688354.9	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 648976.11
OBSERVED BY		Rich Crockett	DATE	7/28/2017	DATE STARTED 7/28/2017
CHECKED BY		George Holmes	DATE	8/16/2017	DATE FINISHED 7/28/2017

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP503 (9.5-10)	0.0	(0-4') SILTY SAND (SM); ~65% fine sand, ~5% rounded-subangular gravel up to 2.5", ~30% non-plastic fines, contains fragmented concrete and brick, cobbles and boulders, brown, moist, FILL.
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
10		0.0	(4-10') WIDELY GRADED SAND WITH SILT (SW-SM); ~70% fine to coarse sand, mostly fine, ~5% rounded-subangular gravel up to 2", ~15% non-plastic fines, contains cobbles and boulders, reddish brown - brown, moist. Test pit was backfilled on reverse basis.
		0.0	Bottom of Test Pit at ~10.0 feet.
			Photograph 1: Identified several electrical conduits.  Photograph 2: Soil horizon looking south. 

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP504	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 38.8	
WEATHER		Cloudy, 70F		NORTHING 688314.14	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 648927.94
OBSERVED BY		Rich Crockett	DATE	7/27/2017	DATE STARTED 7/27/2017
CHECKED BY		George Holmes	DATE	8/16/2017	DATE FINISHED 7/27/2017

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP504 (7-8)	0.0	(0-3') SILTY SAND (SM); ~65% fine sand, ~5% rounded-subangular gravel up to 1.5", ~30% non-plastic fines, contains cobbles and boulders, brown, moist.
		0.0	
		0.0	
		41	(3-11') Similar to above. Staining, odor. Base of foundation wall observed at 9' below ground surface (bgs). Test pit backfilled on reverse basis.
		239.4	
		410	
		845	
		898	
		755	
		488	
10	GPEC-TP504 (7-8)	289	
		19.2	
		Bottom of Test Pit at ~11.0 feet. Photograph 1: Impacted soils pinching out north.  Photograph 2: Stained soils and exterior wall. 	

NOTES: Test pit to determine location of underground utilities. Datum: New York State Plane NAVD 88.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 10 ft. DEPTH 11 ft.	
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TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP505	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				
CLIENT		National Grid			1 OF 1	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			PROJECT NO. 125180-3-1302	
WEATHER		Clear, 75F			ELEVATION 38.6	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	NORTHING 688320.31	
OBSERVED BY		Rich Crockett	DATE	7/26/2017	EASTING 648973.77	
CHECKED BY		George Holmes	DATE	8/16/2017	DATE STARTED 7/26/2017	
DATE FINISHED		7/26/2017				
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5		0.0	(0-5') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~10% fine to coarse rounded-subangular gravel up to 3", ~20% non-plastic fines, contains fragmented brick, concrete and steel, grayish brown-brown, moist, FILL. Approximately 6" diameter steel pipe observed 4' below ground surface (bgs).			
		0.0				
		0.0				
		0.0				
		0.0				
10	GPEC-TP505 (9-10)	12.9	(5-7.5') Similar to above. Staining, odor. Contains cobbles, boulders, and coal fragments, FILL.			
		16.7				
		17.5				
		16.9	(7.5-10') SILTY SAND (SM); ~70% fine to coarse sand, mostly coarse, ~10% fine to coarse rounded-subangular gravel up to 3", ~20% non-plastic fines, contains coal fragments, cobbles, and boulders, staining, odor, grayish brown-brown, moist, FILL. Base of foundation wall observed at 9' bgs. Test pit backfilled on reverse basis.			
		19.6				
		55.7	Bottom of Test Pit at ~10.0 feet.			
		Photograph 1: Steel pipe exiting foundation wall. 		Photograph 2: Impacted soils observed at base of wall. 		
NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88.					TEST PIT DIMENSIONS:	
					LENGTH	10 ft.
					WIDTH	10 ft.
					DEPTH	10 ft.

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP506	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Clear, 95F		ELEVATION 51.4	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	NORTHING 688525.3
OBSERVED BY		Rich Crockett	DATE	7/13/2017	EASTING 648844.05
CHECKED BY		George Holmes	DATE	8/16/2017	DATE STARTED 7/13/2017
DATE FINISHED 7/13/2017					
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5 10	GPEC-TP506 (8-9)	0.0	(0-8')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% fine to coarse rounded-angular gravel up to 3.25", ~10% non-plastic fines, contains fragmented brick, concrete, glass, and steel, brown, moist, FILL.	
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0	(8-9')	Similar to above. Staining, contains coal fragments and ash, FILL. Base of foundation wall observed at 9' below ground surface (bgs).	
		0.0	(9-10')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% fine to coarse rounded-angular gravel up to 3.25", ~10% non-plastic fines, contains fragmented brick, concrete, glass, and steel, brown, moist, FILL. Test pit backfilled on reverse basis.	
		0.0	Bottom of Test Pit at ~10.0 feet.		
			Photograph 1: Base of foundation wall.  Photograph 2: Foundation wall and soil horizon. 		
			DRAFT		
NOTES:				TEST PIT DIMENSIONS:	
Test pit to determine location of former MGP structures.				LENGTH 10 ft.	
Datum: New York State Plane NAVD 88.				WIDTH 5 ft.	
				DEPTH 10 ft.	
					

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP507	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Clear, 91F		ELEVATION 50.0	
CONTRACTOR		O'Leary Construction		NORTHING 688523.99	
OBSERVED BY		Rich Crockett		EASTING 648785.43	
CHECKED BY		George Holmes		DATE STARTED 7/20/2017	
		OPERATOR Fergal Troy		DATE FINISHED 7/20/2017	
		DATE 7/20/2017			
		DATE 8/16/2017			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
GPEC-TP507 (7-8)	0.0	(0-2')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% fine to coarse rounded-angular gravel up to 3", ~10% non-plastic fines, contains fragmented brick, concrete and steel, grayish brown-brown, dry, FILL. Several pipes oriented north-south observed at 1' below ground surface (bgs). The pipes are cut at the foundation wall and filled with concrete.		
	0.0				
	0.0	(2-4')	Similar to above, moist, FILL. Base of foundation wall observed at 4' bgs.		
	0.0				
	0.0	(4-6')	Similar to above, contains whole bricks, cinder blocks, and chunks of concrete, FILL.		
	0.0				
	0.0	(6-7')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~10% fine to coarse rounded-angular gravel up to 3", ~10% non-plastic fines, contains fragmented brick, concrete, and steel, grayish brown-brown, moist, FILL.		
	0.3	(7-9')	Similar to above, staining, odor, FILL.		
	0.2				
	0.1	(9-10')	WIDELY GRADED SAND WITH SILT(SW-SM); ~80% fine to coarse sand, mostly fine ~10% fine to coarse rounded-angular gravel up to 3", ~10% non-plastic fines, contains fragmented brick, concrete, and steel, reddish brown-brown, moist, FILL. Test pit backfilled on reverse basis.		
Bottom of Test Pit at ~10.0 feet.					
			Photograph 1: Abandoned pipe's looking east.  Photograph 2: Base of foundation wall and pipes. 		
DRAFT					
NOTES:				TEST PIT DIMENSIONS:	
Test pit to determine location of underground utilities.				LENGTH 10 ft.	
Datum: New York State Plane NAVD 88.				WIDTH 5 ft.	
				DEPTH 10 ft.	

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP508	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Clear, 85F		ELEVATION 50.7	
CONTRACTOR		O'Leary Construction		NORTHING 688585.32	
OBSERVED BY		Rich Crockett		EASTING 648758.03	
CHECKED BY		George Holmes		DATE STARTED 7/18/2017	
		OPERATOR Fergal Troy		DATE FINISHED 7/18/2017	
		DATE 7/18/2017			
		DATE 8/16/2017			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP508 (3-4)	0.0	(0-3') SILTY SAND (SM); ~70% fine to coarse sand, ~10% fine to coarse rounded-subangular gravel up to 3.5", ~20% non-plastic fines, contains fragmented and whole brick, fragmented concrete, glass, and steel, dark brown-brown, moist, FILL.		
		0.0			
		0.0			
		0.8	(3-4') Similar to above, staining, odor, FILL.		
		0.6			
		0.2	(4-5') SILTY SAND (SM); ~70% fine to coarse sand, ~10% fine to coarse rounded-subangular gravel up to 3.5", ~20% non-plastic fines, contains fragmented and whole brick, fragmented concrete, glass, and steel, dark brown-brown, moist, FILL. Concrete curb oriented east-west observed 4' below ground surface (bgs).		
		0.0			
		0.0	(5-10') WIDELY GRADED SAND WITH SILT (SW-SM); ~75% fine to coarse sand, mostly fine ~10% fine to coarse rounded-subangular gravel up to 4", ~15% non-plastic fines, contains cobbles and boulders, reddish brown-brown, moist. Test pit backfilled on reverse basis.		
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet.		
			Photograph 1: Concrete curb line at 4' bgs.  Photograph 2: Completed test pit looking south. 		
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of underground utilities.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 5 ft.		
			DEPTH 10 ft.		
					

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TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP509	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				
CLIENT		National Grid				
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			PROJECT NO. 125180-3-1302	
WEATHER		Clear, 91F			ELEVATION 50.1	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	NORTHING 688610.4	
OBSERVED BY		Rich Crockett	DATE	7/19/2017	EASTING 648755.79	
CHECKED BY		George Holmes	DATE	8/16/2017	DATE STARTED 7/19/2017	
DATE FINISHED 7/19/2017						
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP509 (4-5)	0.0	(0-4')	WIDELY GRADED SAND (SW); ~85% fine to coarse sand, ~10% fine to coarse rounded-angular gravel up to 4", ~5% non-plastic fines, contains fragmented brick, concrete, glass, and steel, grayish brown-brown, moist, FILL. Several pipes observed oriented north-south. Pipes were cut at the foundation wall and either capped or filled with concrete.		
		0.1				
		0.2				
		0.3				
		0.1	(4-6')	Similar to above, staining, FILL.		
		0.1				
		0.0	(6-10')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~10% fine to coarse rounded-subangular gravel up to 3.5", ~30% non-plastic fines, contains cobbles and boulders, staining, reddish brown-brown, moist. Base of foundation wall observed at 6' below ground surface (bgs). Test pit backfilled on reverse basis.		
		0.0				
		0.0				
		0.0				
10		0.0	Bottom of Test Pit at ~10.0 feet.			
		Photograph 1: Excavation on east side of abandoned pipe run. 		Photograph 2: West side and base of foundation wall. 		
NOTES: Test pit to determine location of underground utilities. Datum: New York State Plane NAVD 88.					TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP510	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, 88F		ELEVATION 52.8	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	NORTHING 688656.09
OBSERVED BY		Rich Crockett	DATE	7/12/2017	EASTING 648807.13
CHECKED BY		George Holmes	DATE	8/17/2017	DATE STARTED 7/12/2017
DATE FINISHED 7/12/2017					
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5 10	GPEC-TP510 (5-6)	0.7	(0-4') SILTY SAND (SM); ~70% fine to coarse sand, ~10% fine to coarse rounded-angular gravel up to 3.5", ~20% non-plastic fines, contains fragmented brick, concrete, and steel, brown, moist, FILL.		
		0.6			
		0.4			
		1.1			
		(4-10')	Similar to above, contains cobbles and boulders, FILL. Test pit backfilled on reverse basis.		
		0.2			
		3.2			
		1.1			
		0.7			
		1.3			
1.0					
0.9	Bottom of Test Pit at ~10.0 feet. Photograph 1: 20' section of foundation wall removed at surface.  Photograph 2: Completed test pit. 				
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of underground utilities.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 5 ft.		
			DEPTH 10 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP511	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, Rain, 70F		ELEVATION 52.9	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	NORTHING 688692.66
OBSERVED BY		Rich Crockett	DATE	7/14/2017	EASTING 648857.21
CHECKED BY		George Holmes	DATE	8/17/2017	DATE STARTED 7/14/2017
DATE FINISHED 7/14/2017					
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
GPEC-TP511 (9.5-10)		0.0	(0-3')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~10% rounded-subangular gravel up to 3.5", ~30% non-plastic fines, contains fragmented brick, concrete, steel, and glass, cobbles and boulders, brown, moist, FILL.	
		0.0			
		0.0			
		0.0			
		0.0	(3-10')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~10% rounded-subangular gravel up to 3.5", ~30% non-plastic fines, contains cobbles and boulders, brown, moist. Base of concrete foundation wall observed at 6.5' below ground surface (bgs). Test pit backfilled on reverse basis.	
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
Bottom of Test Pit at ~10.0 feet.					
Photograph 1: Base of foundation wall.  Photograph 2: Completed test pit looking east. 					
NOTES: Test pit to determine location of underground utilities. Datum: New York State Plane NAVD 88.				TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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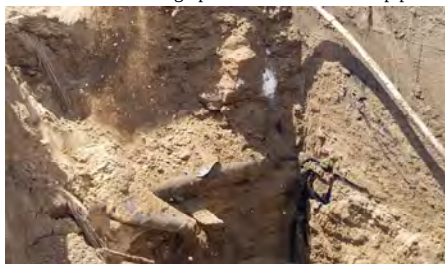


TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP512	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			ELEVATION 52.5	
WEATHER		Cloudy, 73F			NORTHING 688678.8	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 648947.82	
OBSERVED BY		Rich Crockett	DATE	7/25/2017	DATE STARTED 7/25/2017	
CHECKED BY		George Holmes	DATE	8/15/2017	DATE FINISHED 7/25/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP512 (9.5-10)	0.0	(0-3') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% fine to coarse rounded-subangular gravel up to 3", ~10% non-plastic fines, contains fragmented brick, concrete, and steel, reddish brown-brown, moist, FILL. Several pipes observed oriented north-south. Pipes were cut at the foundation wall and capped.			
		0.0				
		0.0				
		0.0	(3-4') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% fine to coarse rounded-subangular gravel up to 3", ~10% non-plastic fines, contains cobbles and boulders, reddish brown-brown, moist.			
		0.0				
		0.0	(4-10') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine ~5% fine to coarse rounded-subangular gravel up to 2", ~15% non-plastic fines, contains cobbles and boulders, reddish tan-reddish brown, moist. Base of concrete foundation wall observed at 5' below ground surface (bgs). Test pit backfilled on reverse basis.			
		0.0				
		0.0				
		0.0				
		0.0				
10		0.0	Bottom of Test Pit at ~10.0 feet.			
			Photograph 1: Foundation wall and abandoned pipe run. 			
			Photograph 2: Base of foundation wall and completed test pit. 			
NOTES:					TEST PIT DIMENSIONS:	
Test pit to determine location of underground utilities.					LENGTH 10 ft.	
Datum: New York State Plane NAVD 88.					WIDTH 5 ft.	
					DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP513	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, 85F		ELEVATION 52.1	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	NORTHING 688614.68
OBSERVED BY		Rich Crockett	DATE	7/17/2017	EASTING 648843.09
CHECKED BY		George Holmes	DATE	8/17/2017	DATE STARTED 7/17/2017
					DATE FINISHED 7/17/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP513 (6-7)	0.0	(0-6')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine ~10% subrounded-angular gravel up to 3.5", ~10% non-plastic fines, contains fragmented brick, concrete, wood, and steel, dark brown-brown, moist, FILL. Waterproofing coating observed on foundation wall. Ducts and piping observed coming out of the foundation wall.	
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10	GPEC-TP513 (6-7)	0.0	(6-7.5')	Similar to above, staining, coal fragments, and ash, FILL.	
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
			Bottom of Test Pit at ~10.0 feet.		
			Photograph 1: Exposed duct bank and foundation wall. 		
			Photograph 2: Stained soil observed at 6' bgs. 		
DRAFT					
NOTES:				TEST PIT DIMENSIONS:	
Test pit to determine location of former MGP structures.				LENGTH 10 ft.	
Datum: New York State Plane NAVD 88.				WIDTH 5 ft.	
				DEPTH 10 ft.	

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP514	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 53.0	
WEATHER		Clear, 88F		NORTHING 688652.13	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 648866.52
OBSERVED BY		Rich Crockett	DATE	7/12/2017	DATE STARTED 7/12/2017
CHECKED BY		George Holmes	DATE	8/16/2017	DATE FINISHED 7/12/2017

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5		0.0	(0-6') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine ~5% subrounded-angular gravel up to 2.5", ~15% non-plastic fines, contains fragmented brick, concrete, and steel, brown, moist, FILL. Waterproofing coating observed on foundation wall. Steel pipe observed coming out of foundation wall.
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
10	GPEC-TP514 (9.5 - 10)	0.0	(6-10') SILTY SAND (SW-SM); ~60% fine to medium sand, mostly fine ~5% subrounded-angular gravel up to 3", ~30% non-plastic fines, 5% low plasticity fines, contains fragmented brick, concrete, glass, and clay pipe, dark brown - brown, moist, FILL. Test pit backfilled on reverse basis.
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
Bottom of Test Pit at ~10.0 feet. Photograph 1: Exposed foundation wall  Photograph 2: Encountered steel pipe 			

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88. 	TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP515	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 51.5	
WEATHER		Clear, 93F		NORTHING 688694.35	
CONTRACTOR		O'Leary Construction	OPERATOR	EASTING 649006.06	
OBSERVED BY		Rich Crockett	DATE	DATE STARTED 7/21/2017	
CHECKED BY		George Holmes	DATE	DATE FINISHED 7/21/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
		0.0	(0-2') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine ~10% fine to coarse rounded-subangular gravel up to 2.5", ~10% non-plastic fines, contains fragmented brick, concrete, and steel, grayish brown-brown, dry, FILL.		
		0.0			
		0.0	(2-6') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine ~10% fine to coarse rounded-subangular gravel up to 2", ~20% non-plastic fines, reddish brown-brown, moist. A concrete footing, concrete pier, and pipes oriented northeast-southwest observed on the southeast edge of the test pit 3' below ground surface (bgs).		
		0.0			
5		0.0			
		0.0			
		0.0	(6-10') Similar to above, contains cobbles and boulders. Test pit backfilled on reverse basis.		
		0.0			
		0.0			
10	GPEC-TP515 (9.5-10)	0.0			
		0.0	Bottom of Test Pit at ~10.0 feet.		
			Photograph 1: Footing, pier, and piping.  Photograph 2: Completed test pit looking northeast. 		
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 5 ft.		
			DEPTH 10 ft.		
					

TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP516	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				
CLIENT		National Grid			1 OF 1	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, Rain, 73F			ELEVATION 52.6	
CONTRACTOR		O'Leary Construction			NORTHING 688604.48	
OBSERVED BY		Rich Crockett			EASTING 648969.7	
CHECKED BY		George Holmes			DATE STARTED 7/24/2017	
		OPERATOR Fergal Troy			DATE FINISHED 7/24/2017	
		DATE 7/24/2017				
		DATE 8/17/2017				
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP516 (0.5 - 1.5)	0.0	(0-4') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% fine to coarse rounded-subangular gravel up to 3", ~10% non-plastic fines, contains fragmented brick, concrete and steel, staining, coal like fragments, ash, grayish brown-brown, moist, FILL. Foundation wall and piping observed on northwest side of test pit. Base of foundation wall observed at 4' below ground surface (bgs).			
		0.1				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
10		0.0	(4-10') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine ~10% fine to coarse rounded-subangular gravel up to 3.5", ~20% non-plastic fines, contains cobbles and boulders, reddish brown-brown, moist. Test pit backfilled on reverse basis.			
		0.0				
		0.0	Bottom of Test Pit at ~10.0 feet.			
			Photograph 1: Foundation wall and test pit. 		Photograph 2: Exposed foundation walls, north. 	
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NOTES:					TEST PIT DIMENSIONS:	
Test pit to determine location of former MGP structures.					LENGTH 10 ft.	
Datum: New York State Plane NAVD 88.					WIDTH 5 ft.	
					DEPTH 10 ft.	
						

TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI				GPEC-TP517	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211					
CLIENT		National Grid					
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)				PROJECT NO. 125180-3-1302	
WEATHER		Clear, 75F				ELEVATION 14.54	
CONTRACTOR		O'Leary Construction		OPERATOR		Fergal Troy	
OBSERVED BY		Rich Crockett		DATE		8/30/2017, 8/31/2017	
CHECKED BY		George Holmes		DATE		1/31/2018	
DATE FINISHED		8/31/2017					

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP517 (2-3)	0.0	(0-1') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick and concrete, steel, cobbles and boulders, moist, dark brown-brown, FILL.
		0.2	
		0.6	(1-3') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick and concrete, steel, cobbles and boulders, gray staining, dark brown-brown, FILL. Encountered top of foundation wall 1.2' bgs on northern edge of test pit.
		7.5	(3-7') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick and concrete, steel, cobbles and boulders, ash, fragmented coal, hardened solidified NAPL fragments up to 9" with a naphthalene-like odor, gray staining, dark brown-brown, FILL. Base of foundation wall observed at 6' bgs.
		3.5	
	GPEC-TP517 (8-9)	1.6	
		0.2	
		10.9	(7-10') SILTY SAND (SM); ~60% fine to coarse sand, mostly fine, ~35% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick, and concrete, wood, steel, cobbles and boulders, gray staining, petroleum-like odor, moist, brown, FILL. Encounter 8" steel pipe running north-south 8' bgs.
		58.7	
		41.5	
10		34.9	Bottom of Test Pit at ~10.0 feet. Photograph 1: Encountered 8" steel pipe 8 ft. bgs. Photograph 2: Completed test pit looking west.  

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NOTES: Test pit to determine location of former MGP structures (former generator house). Datum: New York State Plane NAVD 88. bgs - below ground surface.		GEI 		LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP518	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 8.67	
WEATHER		Clear, 39F, SW 0-5 mph. Clear, 48F, SW 0-5 mph.		LOCATION NORTHING 688263.83	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650531.65
OBSERVED BY		Rich Crockett	DATE	1/10-1/11/2018	DATE STARTED 1/10/2018
CHECKED BY		George Holmes	DATE	1/29/2018	DATE FINISHED 1/11/2018

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
	GPEC-TP518 (3-4)	0.0	(0-2') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic silt, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented and whole red brick, fragmented concrete and glass, clinkers and spherical stones, black staining, moist, tight, dark brown-brown. FILL. Top of foundation wall encountered at 1.5' bgs.
		0.0	
		0.0	(2-3') Layer of fragmented coal up to 1", mixed with sand and silt (similar to above).
		0.0	(3-6') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic silt, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented and whole red brick, fragmented concrete and glass, clinkers and spherical stones, fragmented solidified NAPL, black staining, moist, tight, dark brown-brown. FILL. Base of foundation wall observed at 6' bgs.
		0.0	
		0.0	
		0.0	Groundwater encountered at 6' bgs.
		0.0	Bottom of Test Pit at ~6.0 feet.
			Photograph 1: Completed test pit looking south.  Photograph 2: Completed test pit looking west. 

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NOTES: Test pit to determine location of underground utilities. Datum: New York State Plane NAVD 88. bgs - below ground surface.		 <table> <tr> <td>LENGTH</td> <td>10 ft.</td> </tr> <tr> <td>WIDTH</td> <td>5 ft.</td> </tr> <tr> <td>DEPTH</td> <td>6 ft.</td> </tr> </table>		LENGTH	10 ft.	WIDTH	5 ft.	DEPTH	6 ft.
LENGTH	10 ft.								
WIDTH	5 ft.								
DEPTH	6 ft.								

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP519	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 14.01	
WEATHER		Cloudy, Rain, 72F		LOCATION NORTHING 688265.87	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650419.86
OBSERVED BY		Rich Crockett	DATE	9/6/2017, 9/7/2017	DATE STARTED 9/6/2017
CHECKED BY		George Holmes	DATE	1/29/2018	DATE FINISHED 9/7/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP519 (1-2)	0.0	(0-2')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick-whole brick, up to boulder size concrete, steel, wood, cobbles and boulders, moist, stained, slight petroleum-like odor, dark brown-brown, FILL. Top of foundation wall observed at 0.7' bgs.	
		0.6			
		0.0	(2-3')	SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented and whole bricks, fragmented concrete, steel, cobbles and boulders, moist, brown, FILL.	
		0.0			
		0.0	(3-10')	SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, moist, brown. Base of foundation wall observed at 5' bgs.	
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking south. 		
NOTES:			Test pit to determine the location of former MGP structures (former generator house). Datum: New York State Plane NAVD 88. bgs - below ground surface.		
			LENGTH 14 ft. WIDTH 5 ft. DEPTH 10 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP520	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.43	
WEATHER		Cloudy, Snow, 31F, W 5-10 mph. Cloudy, 52F, SW 10-20 mph.		LOCATION NORTHING 688213.10	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650228.24
OBSERVED BY		Rich Crockett	DATE	12/15-12-19/2017	DATE STARTED 12/15/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 12/19/2017

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP520 (3-4)	0.0	(0-3') SILTY SAND WITH GRAVEL (SM); ~40% fine to coarse sand, mostly fine ~40% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, and glass, oxidation staining, moist, tight, dark brown-brown. FILL. Encountered foundation wall at 2.5' bgs.
		0.0	
		0.0	
		34.7	(3-4') SILTY SAND WITH GRAVEL (SM); ~40% fine to coarse sand, mostly fine ~40% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, and glass, oxidation staining, hardened solidified NAPL fragments, black staining, moderate to strong petroleum-like odor, moist, tight, dark brown-brown. FILL.
		100.1	
		2.7	(4-5') SILTY SAND WITH GRAVEL (SM); ~40% fine to coarse sand, mostly fine ~40% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, and glass, oxidation staining, hardened solidified NAPL fragments, gray staining, slight petroleum-like odor, moist, tight, dark brown-brown. FILL.
		0.0	
		0.0	(5-6') SILTY SAND (SM); ~80% fine to coarse sand, mostly fine ~20% non-plastic fines, slightly pliable solidified NAPL fragments, gray staining, slight petroleum-like odor, moist, loose, yellow. FILL.
		10.2	(6-8') SILTY SAND (SM); ~80% fine to coarse sand, mostly fine ~20% non-plastic fines, slight petroleum-like odor, moist, loose, yellow. FILL.
		13.7	(8-10') SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~30% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 7", gray staining, moderate petroleum-like odor, moist, loose, yellow. FILL.
20.9	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		

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NOTES: Test pit to determine location of former MGP structures (former generator house). Datum: New York State Plane NAVD 88. bgs - below ground surface.		 LENGTH 9 ft. WIDTH 5 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER							
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP521							
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211									
CLIENT		National Grid									
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302							
WEATHER		Clear, 38F, NW 5-10 mph.		ELEVATION 15.29							
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688092.73						
OBSERVED BY		Rich Crockett	DATE	12/21/2017	LOCATION EASTING 650120.73						
CHECKED BY		George Holmes	DATE	1/29/2018	DATE STARTED 12/21/2017						
					DATE FINISHED 12/21/2017						
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks								
5 10	GPEC-TP521 (1-2)	0.0	(0-1')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 6", scrap metal and glass, moist, tight, dark brown-brown. FILL.							
		0.4	(1-2')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 6", scrap metal and glass, dark gray staining, moist, tight, dark brown-brown. FILL.							
		0.6									
		0.0	(2-3')	SILTY SAND (SM); ~50% fine to coarse sand, mostly fine ~40% non-plastic to low plasticity fines, ~10% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", moist, tight, light brown-brown. FILL							
		0.1	(3-5')	NARROWLY GRADED SAND WITH SILT (SW-SM); ~90% fine to medium sand, 10% non-plastic fines, moist, light tan. Likely utility trench backfill.							
		0.3	(5-10')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 6", scrap metal, glass, ash, fragmented coal and clinkers, dark gray staining, moist, tight, dark brown-brown. FILL.							
		0.0									
		0.0									
		0.0									
		0.0									
		0.0									
				0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking west. 						
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NOTES: Test pit to determine location of former MGP structures (former generator house). Datum: New York State Plane NAVD 88. bgs - below ground surface.				 <table border="0"> <tr> <td>LENGTH</td> <td>10 ft.</td> </tr> <tr> <td>WIDTH</td> <td>5 ft.</td> </tr> <tr> <td>DEPTH</td> <td>10 ft.</td> </tr> </table>		LENGTH	10 ft.	WIDTH	5 ft.	DEPTH	10 ft.
LENGTH	10 ft.										
WIDTH	5 ft.										
DEPTH	10 ft.										

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP522	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, Rain, 52F, S 10-15 mph. Cloudy, 41F, W 10-15 mph.		ELEVATION 16.11	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688133.60
OBSERVED BY		Rich Crockett	DATE	12/5-12/8/2017	LOCATION EASTING 650052.63
CHECKED BY		George Holmes	DATE	1/29/2018	DATE STARTED 12/5/2017
					DATE FINISHED 12/8/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP522 (3-4)	0.0	(0-2')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, concrete chunks up to 18", scrap metal, glass, marble scrap and clinkers up to 8", moist, tight, dark brown to brown. FILL. Encountered foundation wall at 1.5' bgs.	
		0.0			
		31.9	(2-3')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, concrete chunks up to 18", scrap metal, glass, marble scrap and clinkers up to 8", black staining, strong petroleum-like odor, contains pieces of slightly pliable to hardened solidified NAPL, moist, tight, dark brown to brown. FILL.	
		105.3			
		134.8	(3-10')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, concrete chunks up to 18", scrap metal, glass, marble scrap and clinkers up to 8", timbers, dark gray staining, strong petroleum-like odor, moist, tight, dark brown to brown. FILL. Base of foundation wall observed at 6' bgs.	
		10.1			
		56.8			
		12.6			
		10.8			
		16.5			
10		14.4	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking south. 		
NOTES:			Test pit to determine location of former MGP structures (former relief holder #1). Datum: New York State Plane NAVD 88. bgs - below ground surface.		
GEI Consultants 			LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP523	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Clear, 53F, NW 10-15 mph. Cloudy, Rain, 53F, S 10-15 mph.		ELEVATION 15.97	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688091.99
OBSERVED BY		Rich Crockett	DATE	12/1-12/5/2017	LOCATION EASTING 649924.21
CHECKED BY		George Holmes	DATE	1/31/2018	DATE STARTED 12/1/2017
					DATE FINISHED 12/5/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP523 (2-3)	0.0	(0-2')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, concrete chunks up to 16", scrap metal, glass, wood, slightly pliable solidified NAPL fragments, moist, tight, dark brown to brown. FILL.	
		14.5			
		67.2	(2-4')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, concrete chunks up to 16", scrap metal, glass, wood, slightly pliable solidified NAPL fragments, dark gray-black staining, strong petroleum-like odor, moist, tight, dark brown to brown. FILL.	
		38.4			
		11.5	(4-6')	SILTY SAND (SM); ~70% fine to medium sand, mostly fine ~20% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 10", scrap metal, glass, splintered wood and timbers, gray staining, moderate petroleum-like odor, moist, dark brown-brown. FILL.	
		5.9			
		0.0	(6-7')	Brittle sandy concrete-like material.	
		0.0	(7-10')	SILTY SAND (SM); ~70% fine to medium sand, mostly fine ~20% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 10", scrap metal, glass, splintered wood and timbers, black staining, slight petroleum-like odor, moist, dark brown-brown. FILL.	
		0.4			
		0.8			
10		1.2	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		
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NOTES: Test pit to determine location of former MGP structures (former relief holder #1). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
					

TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP524	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				
CLIENT		National Grid				
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			PROJECT NO. 125180-3-1302	
WEATHER		Partly Cloudy, 83F/Clear, 78F			ELEVATION -	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688003.3	
OBSERVED BY		George Holmes	DATE	9/27-28/2017	LOCATION EASTING 649694.5	
CHECKED BY		Chris Morris	DATE	2/2/2018	DATE STARTED 9/27/2017	
DATE FINISHED					9/28/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP524 (1-2)	0.9	(0-1') SILTY SAND (SM); ~70% fine to medium sand, ~25% non-plastic fines, ~5% fine to coarse angular-subrounded gravel up to 4", contains red brick and glass fragments, brown-tan, moist, FILL. Concrete foundation wall encountered approximately 1' bgs along northern boundary of test pit.			
		180.5				
		117.4	(1-3') SILTY SAND (SM); ~50% fine to medium sand, ~40% non-plastic fines, ~10% fine to coarse angular-subrounded gravel up to 4", contains cobbles/boulders, red/white bricks and fragments, concrete chunks, timbers, metal scrap, and plastic debris, some solid NAPL fragments, black staining, petroleum-like odor, black, moist, FILL.			
		0.1				
		0.1	(3-5') CLAYEY SAND WITH GRAVEL (SC); ~50% fine to medium sand, ~30% low-plasticity fines, ~20% fine to coarse angular to subrounded gravel up to 4", contains cobbles/boulders, timbers, red bricks and fragments, concrete chunks, and metal scrap, trace black staining, gray to brown, moist, FILL. Approximately 1.5' south of the foundation wall extending to the southern boundary of the test pit was asphalt and asphalt millings from 3-3.5' bgs, and burned wood/timbers, cinders, ash, and charcoal from 3.5-5' bgs, with a slight burnt odor, loose, and black.			
		5.0				
		5.2	(5-9') CLAYEY SAND WITH GRAVEL (SC); ~50% fine to medium sand, ~30% low-plasticity fines, ~20% fine to coarse angular to subrounded gravel up to 4", contains cobbles/boulders, timbers, red bricks and fragments, concrete chunks, and metal scrap, some solid NAPL fragments, black staining, petroleum-like odor, gray to black, wet at 6' bgs, FILL. Groundwater encountered at 9' bgs, and foundation wall still present.			
		8.1				
		10.4				
		25.4	Bottom of Test Pit at ~9.0 feet.			
10		Photograph 1: Interval of burned wood/cinders/ash. 				
		Photograph 2: Completed test pit looking east. 				
NOTES: Test pit to determine location of former MGP structures (former oil storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.					LENGTH 7 ft. WIDTH 5 ft. DEPTH 9 ft.	
					DRAFT	

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP525	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Clear, 84F		ELEVATION 15.02	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688342.98
OBSERVED BY		Rich Crockett	DATE	9/1/2017, 9/5/2017	LOCATION EASTING 650382.72
CHECKED BY		George Holmes	DATE	1/31/2018	DATE STARTED 9/1/2017
					DATE FINISHED 9/5/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP525 (1-2)	0.0	(0-2') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick-whole brick, up to boulder size concrete, steel, cobbles and boulders, solidified NAPL, dark gray staining, naphtalene like odor, moist, dark brown-brown, FILL. Top of concrete foundation wall observed at grade. Concrete slab encountered at 1.6' bgs on west side of concrete foundation wall.		
		2.6			
		0.0	(2-10') SILTY SAND (SM); ~80% fine to coarse sand, mostly fine, ~15% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, moist, light brown-brown. Base of concrete foundation wall observed at 6' bgs.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10			Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking west. 		
			DRAFT		
NOTES: Test pit to determine location of former MGP structures (former treatment tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.				 LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

TEST PIT LOG				TEST PIT NUMBER		
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP526		
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1		
CLIENT		National Grid		PROJECT NO. 125180-3-1302		
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.33		
WEATHER		Clear, 51F, W 10-15 mph. Clear, 58F, W 10-15 mph.		LOCATION NORTHING 688224.72		
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650163.29	
OBSERVED BY		Rich Crockett, George Holmes	DATE	11/27-11/29/17	DATE STARTED 11/27/2017	
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 11/29/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5 10 <td rowspan="10">GPEC-TP526 (7-8)</td> <td>0.0</td> <td>(0-3)</td> <td colspan="3">SILTY SAND WITH GRAVEL (SM); ~40% fine to medium sand, ~30% non-plastic fines, ~30% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red and white bricks, concrete chunks, asphalt, porcelain fragments, scrap metal, and timbers, dry, dark brown to brown. FILL.</td>	GPEC-TP526 (7-8)	0.0	(0-3)	SILTY SAND WITH GRAVEL (SM); ~40% fine to medium sand, ~30% non-plastic fines, ~30% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red and white bricks, concrete chunks, asphalt, porcelain fragments, scrap metal, and timbers, dry, dark brown to brown. FILL.		
		0.0				
		0.0				
		18.3	(3-6)	SILTY SAND WITH GRAVEL (SM); ~40% fine to medium sand, ~30% non-plastic fines, ~30% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red and white bricks, concrete chunks, asphalt, porcelain fragments, scrap metal, and timbers, black staining, moderate petroleum-like odor, moderate naphthalene-like odor, hardened solidified NAPL fragments, dry, dark brown to brown. FILL. Top of concrete foundation wall encountered 3' bgs.		
		18.8				
		55.1				
		88.8	(6-9)	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine ~20% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3", cobbles up to 8", contains fragmented red brick and concrete, black staining, strong petroleum-like odor, moist. FILL. Encountered 12" steel pipe oriented east-west abutting south side of foundation wall at 6' bgs.		
		399.3				
		343.7				
		377.1		Refusal at 9' bgs due to impassable large timber		
			Bottom of Test Pit at ~9.0 feet.			
			Photograph 1: Completed test pit looking south.  Photograph 2: Completed test pit looking west. 			
			DRAFT			
NOTES: Test pit to determine location of former MGP structures (former tar separator). Datum: New York State Plane NAVD 88. bgs - below ground surface.				GEI  LENGTH 14 ft. WIDTH 5 ft. DEPTH 9 ft.		

TEST PIT LOG				TEST PIT NUMBER		
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP527		
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				
CLIENT		National Grid				
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302		
WEATHER		Cloudy, 59F / Clear, 63F		ELEVATION -		
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688167.7	
OBSERVED BY		George Holmes/Rich Crockett	DATE	10/26-27/2017	LOCATION EASTING 650013.9	
CHECKED BY		George Holmes	DATE	1/29/2018	DATE STARTED 10/26/2017	
					DATE FINISHED 10/27/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5 10	GPEC-TP527 (2-3)	0.0	(0-1')	SILTY SAND WITH GRAVEL (SM); ~60% fine to medium sand, ~20% fine to coarse gravel rounded to angular up to 3", ~20% non-plastic fines, cobbles up to 10", contains whole/fragmented red brick, concrete up to cobble size, metal scrap, and fragmented porcelain, tile, and wood, brown, tight, dry, FILL.		
		6.6	(1-3')	SILTY SAND WITH GRAVEL (SM); ~60% fine to medium sand, ~20% fine to coarse gravel rounded to angular up to 3", ~20% non-plastic fines, cobbles up to 10", contains whole/fragmented red brick, concrete up to cobble size, metal scrap, and fragmented porcelain, tile, and wood, black staining, strong petroleum-like odor, 2-3" thick solid NAPL layer containing gravel and clinkers at 2' bgs, brown, tight, dry, FILL.		
		16.0	(3-6')	NARROWLY GRADED SAND WITH SILT (SP-SM); ~75% fine to medium sand, ~15% non-plastic fines, ~10% fine to coarse gravel angular to subrounded up to 3", cobbles up to 9", contains whole/fragmented red brick, concrete up to cobble size, metal scrap and pieces of slate, brown, tight, dry, FILL.		
		0.0				
		0.0				
		0.7	(6-10')	NARROWLY GRADED SAND WITH SILT (SP-SM); ~75% fine to medium sand, ~15% non-plastic fines, ~10% fine to coarse gravel angular to subrounded up to 3", cobbles up to 9", contains whole/fragmented red brick, concrete up to cobble size, metal scrap and pieces of slate, dark gray staining, slight petroleum-like odor, brown, tight, dry, FILL. Base of foundation wall observed at 6' bgs.		
		0.8				
		1.1				
		0.9				
		1.2	Bottom of Test Pit at ~10.0 feet.			
		Photograph 1: Base of foundation wall. 			Photograph 2: Completed test pit looking east. 	
		DRAFT				
NOTES: Test pit to determine location of former MGP structures (former salt water condensers). Datum: New York State Plane NAVD 88. bgs - below ground surface.				 LENGTH 6 ft. WIDTH 5 ft. DEPTH 10 ft.		

TEST PIT LOG				TEST PIT NUMBER							
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP528							
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1							
CLIENT		National Grid		PROJECT NO. 125180-3-1302							
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.02							
WEATHER		Cloudy, 38F, SE 5-10 mph.		LOCATION NORTHING 688157.19							
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649946.30						
OBSERVED BY		Rich Crockett	DATE	11/30-12/1/17	DATE STARTED 11/30/2017						
CHECKED BY		George Holmes	DATE	1/30/2018	DATE FINISHED 12/1/2017						
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks								
5	GPEC-TP528 (6-7)	0.0	(0-1.5') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 10", clay pipe fragments, scrap metal and glass, moist, tight, tan to brown. FILL.								
		0.0									
		3.5	(1.5-3') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 10", clay pipe fragments, scrap metal, and glass, gray-dark gray staining, slight petroleum-like odor, moist, tight, tan to brown. FILL.								
		13.5									
		78.7	(3-6') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~20% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 18", clay pipe fragments, scrap metal, splintered wood, and glass, black staining, strong petroleum-like odor, moist, tight, tan to brown. FILL.								
		423.9									
		696.8	(6-10') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine ~20% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3" cobbles up to 6", contains fragmented red brick and concrete, black staining, strong petroleum-like odor, petroleum saturated, moist, brown. FILL.								
		426.8									
		649.7									
		658.4									
10		588.7	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking south. Photograph 2: Completed test pit looking west.  								
DRAFT											
NOTES: Test pit to determine location of former MGP structures (former salt water condensers). Datum: New York State Plane NAVD 88. bgs - below ground surface.				 <table> <tr> <td>LENGTH</td> <td>8 ft.</td> </tr> <tr> <td>WIDTH</td> <td>5 ft.</td> </tr> <tr> <td>DEPTH</td> <td>10 ft.</td> </tr> </table>		LENGTH	8 ft.	WIDTH	5 ft.	DEPTH	10 ft.
LENGTH	8 ft.										
WIDTH	5 ft.										
DEPTH	10 ft.										

TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP529	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			ELEVATION -	
WEATHER		Clear, 78F / Clear, 66F			LOCATION NORTHING 688062.44	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649732.16	
OBSERVED BY		George Holmes	DATE	9/28-29/2017	DATE STARTED 9/28/2017	
CHECKED BY		Chris Morris	DATE	2/2/2018	DATE FINISHED 9/29/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP529 (7-8)	0.0	(0-2') SILTY SAND WITH GRAVEL (SM); ~70% fine to medium sand, ~20% fine to coarse angular-subrounded gravel up to 4", ~20% non-plastic fines, contains cobbles/boulders, red/white bricks and fragments, concrete chunks, and metal scrap, trace black staining, brown-dark brown, dry, FILL. Concrete foundation wall encountered at grade along eastern boundary of test pit.			
		0.5				
		0.0	(2-4') SILTY SAND WITH GRAVEL (SM); ~70% fine to coarse sand, ~20% fine to coarse angular-subrounded gravel up to 4", ~20% non-plastic fines, contains cobbles/boulders, red/white bricks and fragments, concrete chunks, metal scrap, brown-reddish brown, moist, FILL.			
		0.0				
		0.0	(4-6') WIDELY GRADED SAND WITH GRAVEL (SW); ~75% fine to coarse sand, ~25% fine to coarse angular to subrounded gravel up to 4", contains cobbles/boulders, red bricks and fragments, concrete chunks, timbers, and metal scrap, some petroleum blebs, sheen, black staining, strong petroleum-like odor, wet, FILL. Base of concrete foundation wall observed at approximately 4' bgs.			
10		10.5				
		293.7	(6-9') SANDY CLAY (CL); ~80% low to medium-plasticity clay, ~20% fine sand, contains organics, roots, twigs, trace sheen, strong petroleum-like odor, gray to black staining, wet. Groundwater encountered at 9' bgs with a sheen.			
		394				
		344				
		188	Bottom of Test Pit at ~9.0 feet.			
			Photograph 1: Completed test pit looking east. 			
			Photograph 2: Impacted soil/fill and groundwater. 			
NOTES:					DRAFT	
Test pit to determine location of former MGP structures (former scrubber).						
Datum: New York State Plane NAVD 88.						
bgs - below ground surface.						
					LENGTH 7 ft. WIDTH 5 ft. DEPTH 9 ft.	

TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP530	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			ELEVATION 16.15	
WEATHER		Clear, 89F			LOCATION NORTHING 688045.38	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649691.79	
OBSERVED BY		Rich Crockett	DATE	9/25/2017, 9/26/2017	DATE STARTED 9/25/2017	
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 9/26/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP530 (2-3)	0.0	(0-1') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~25% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick, up to cobble size concrete, cobbles and boulders, petroleum-like odor, light brown-brown, FILL. Encountered 3.7' diameter vertical steel cylindrical structures cut to 0.5' bgs and backfilled. Identical structure identified approximately 10' south. Structures are connected by a 24" steel pipe encountered at 3' bgs.			
		7.1				
		182.4	(1-10') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~25% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick, up to cobble size concrete, cobbles and boulders, dark gray staining, petroleum like odor, light brown-brown, FILL.			
		271.6				
		5.1				
		6.8				
		66.7				
		87.1				
		127.2				
		133.9				
10		145.6	Bottom of Test Pit at ~10.0 feet.			
		Photograph 1: Vertical cylindrical structures and pipe.		Photograph 2: Completed test pit looking south.		
		Cylindrical Structures 				
DRAFT						
NOTES:						
Test pit to determine location of former MGP structures (former gas mixer).						
Datum: New York State Plane NAVD 88.						
bgs - below ground surface.						
GEI Consultants				LENGTH	10 ft.	
				WIDTH	5 ft.	
				DEPTH	10 ft.	

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP531	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, 79F		ELEVATION 19.35	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688077.55
OBSERVED BY		Rich Crockett	DATE	8/28/2017, 8/29/2017	LOCATION EASTING 649609.77
CHECKED BY		George Holmes	DATE	1/31/2018	DATE STARTED 8/28/2017
					DATE FINISHED 8/29/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP531 (5-6)	0.0	(0-8') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented-whole brick, up to boulder size concrete, steel, wood, cobbles and boulders, stained, petroleum-like odor, moist, dark brown-brown, FILL. Encountered top of concrete foundation wall 0.5' bgs.		
		0.0			
		16.9			
		10.1			
		20.2			
		19.9			
		22.7			
		11.1			
		12.0	Groundwater encountered at 8' bgs.		
		12.0	Bottom of Test Pit at ~8.0 feet.		
10			Photograph 1: Completed test pit looking east. 		
			Photograph 2: Completed test pit looking west. 		
NOTES:			DRAFT		
Test pit to determine location of former MGP structures (former spent oil tank).					
Datum: New York State Plane NAVD 88.					
bgs - below ground surface.					
			LENGTH 10 ft. WIDTH 5 ft. DEPTH 8 ft.		

TEST PIT LOG				TEST PIT NUMBERS	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP532	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 6.74	
WEATHER		Clear, 25F, W 10-15 mph.		LOCATION NORTHING 688393.12	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650491.77
OBSERVED BY		Rich Crockett	DATE	1/2/2018	DATE STARTED 1/2/2018
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 1/2/2018
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5 10	GPEC-TP532 (2-3)	0.0	(0-2) SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~30% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3" cobbles up to 6", contains fragmented to whole red brick, fragmented concrete, scrap metal, splintered wood, timbers, and glass, dark gray-gray staining, dry, tight, tan-brown. FILL.		
		0.2	(2-3) SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~30% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3" cobbles up to 6", contains fragmented to whole red brick, fragmented concrete, scrap metal, splintered wood, timbers, glass, clinkers, black staining, slightly pliable to hardened solidified NAPL fragments, dry, tight, tan-brown. FILL.		
		0.1			
		0.3			
		0.1	(3-4) SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~30% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3" cobbles up to 6", contains fragmented to whole red brick, fragmented concrete, scrap metal, splintered wood, timbers, glass, clinkers, oxidation staining, black staining, slightly pliable to hardened solidified NAPL, dry, tight, tan-brown. FILL. Encountered an approximately 1' wide piece of concrete oriented east-west through the center of the test pit from 3'-4' bgs.		
		0.2			
		0.1	(4-7) SILTY SAND WITH GRAVEL (SM); ~70% fine to coarse sand, mostly fine ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 5", contains organic matter, organic-like odor, dark gray-gray. Groundwater encountered at 7' bgs.		
		0.2	Bottom of Test Pit at ~7.0 feet.		
		Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 			
		NOTES: Test pit to determine location of underground utilities. Datum: New York State Plane NAVD 88. bgs - below ground surface.			LENGTH 10 ft. WIDTH 5 ft. DEPTH 7 ft. 

DRAFT

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP533	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 15.9	
WEATHER		Clear 79F		LOCATION NORTHING 688314.53	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650270.25
OBSERVED BY		Rich Crockett	DATE	9/15/2017, 9/18/2017	DATE STARTED 9/15/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 9/18/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP533 (2-3)	0.0	(0-2')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented and whole brick, up to boulder size concrete pieces, cobbles and boulders, moist, dark brown-brown, FILL. Encountered top of foundation wall 0.5' bgs on eastern edge of test pit.	
		1.7			
		68.7	(2-3')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented and whole brick, up to boulder size concrete pieces, cobbles and boulders, stained, gray/dark gray, petroleum-like odor, moist, dark brown-brown, FILL.	
		6.6			
		0.2	(3-4')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, trace light gray staining, petroleum-like odor, moist, brown.	
10	GPEC-TP533 (8-9)	0.0	(4-7')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, trace light gray staining, petroleum-like odor, moist, brown. Base of foundation wall observed at 4' bgs.	
		0.0			
		377.1	(7-10')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, gray/dark gray staining, petroleum-like odor, moist, brown. Encountered (2) 10" steel pipes running north-south 7' bgs.	
		401.6			
		388.7			
		373.2	Bottom of Test Pit at ~10.0 feet. Photograph 1: 10" steel pipes and staining at depth.  Photograph 2: Completed test pit looking east. 		
NOTES: Test pit to determine location of former MGP structures (former pump house). Datum: New York State Plane NAVD 88. bgs - below ground surface.			LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.		

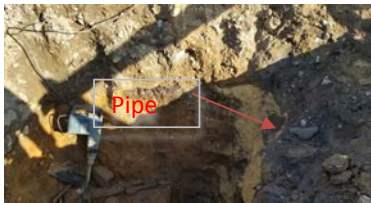
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP536	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 31.4	
WEATHER		Clear 79F		LOCATION NORTHING 688155.09	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649391.97
OBSERVED BY		Rich Crockett	DATE	9/13/2017, 9/15/2017	DATE STARTED 9/13/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 9/15/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP536 (4-5)	0.0	(0-4')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented-whole brick, fragmented glass, steel, cobbles and boulders, moist, dark brown-brown, FILL. Contains large pieces of concrete that appear to be from a former foundation wall.	
		0.0			
		0.0			
		0.0			
		0.1	(4-5')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented-whole brick, fragmented glass, steel, cobbles and boulders, dark gray to black staining, moist, dark brown-brown, FILL. Contains large pieces of concrete that appear to be from a former foundation wall.	
		0.1			
		0.0	(5-7')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented-whole brick, fragmented glass, steel, cobbles and boulders, moist, dark brown-brown, FILL. Contains large pieces of concrete that appear to be from a former foundation wall.	
		0.0			
		0.0	(7-10')	SILTY SAND (SM); ~60% fine to medium sand, mostly fine, ~35% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, moist, reddish brown-brown.	
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		
NOTES: Test pit to determine location of former MGP structures (former bunker C oil storage tank). Datum: New York State Plane NAVD 88. bgs- below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP537	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 34.02	
WEATHER		Clear, 82F		LOCATION NORTHING 688254.14	
CONTRACTOR		O'Leary Construction	OPERATOR	John O'Leary	LOCATION EASTING 649441.16
OBSERVED BY		Rich Crockett	DATE	8/24/17, 8/25/17	DATE STARTED 8/24/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 8/25/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5 10	GPEC-TP537 (2-3)	0.0	(0-3')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick, concrete, wood, steel, cobbles, boulders, solidified NAPL fragments, moist, stained gray-black, petroleum-like odor, FILL. Encountered top of concrete foundation wall 1.5' bgs.	
		30.4			
		323.8			
		83.7	(3-4')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick, concrete, wood, steel, cobbles, boulders, ash, solidified NAPL fragments, moist, stained gray-black, petroleum-like odor, FILL. Encountered 6" asbestos-insulated steel pipe 3.5' bgs in utility sand on east side of test pit.	
		8.8			
		6.2	(4-10')	SILTY SAND (SM); ~75% fine to medium sand, mostly fine, ~20% non-plastic fines, ~5% fine rounded-subangular gravel up to 1.25", contains cobbles and boulders, moist, reddish brown-brown. Encountered concrete slab approximately 6' bgs extending 4' off of the concrete foundation wall.	
		0.9			
		0.6			
		0.7			
		0.0			
		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit. 		
NOTES: Test pit to determine location of former MGP structures (former bunker C oil storage tank). Datum: New York State Plane NAVD 88. below ground surface (bgs)				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP538	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.93	
WEATHER		Cloudy, 45F, N 5-7 mph. Cloudy, Rain, 55F, W 10-15 mph.		LOCATION NORTHING 688409.35	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650143.32
OBSERVED BY		Rich Crockett	DATE	11/14-11/16/2017	DATE STARTED 11/14/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 11/16/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP538 (2-3)	0.0	(0-1')	SILTY SAND (SM); ~70% fine to coarse sand, ~20% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, fragmented concrete, scrap metal, asbestos, ash, fragmented coal, clinkers, slightly pliable solidified NAPL fragments, black staining and slight petroleum-like odor at 0.8' bgs, moist, tight, brown, FILL. Encountered concrete slab at 0.3' bgs.	
		10.1			
		395.7	(1-4')	SILTY SAND (SM); ~70% fine to coarse sand, ~20% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, fragmented concrete, scrap metal, ash, fragmented coal, clinkers, solidified NAPL fragments containing sediments, black staining, strong petroleum-like odor, moist, tight, brown, FILL.	
		224.6			
		16.2	(4-5')	SILTY SAND WITH GRAVEL (SM); ~60% fine to coarse sand, ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", gray staining, slight petroleum-like odor, moist, loose, tan to brown. FILL.	
		0.0	(5-10')	SILTY SAND WITH GRAVEL (SM); ~60% fine to coarse sand, ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", gray staining, moist, loose, tan to brown. FILL.	
		0.0			
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking north. 		
NOTES: Test pit to determine location of former MGP structures (former pressure holder). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP539	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			
CLIENT		National Grid			
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, 38F, W 20-30 mph. Cloudy, Snow, 31F, W 5-10 mph.		ELEVATION 16.24	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION NORTHING 688416.17
OBSERVED BY		Rich Crockett	DATE	12/13-12-15/2017	LOCATION EASTING 650305.69
CHECKED BY		George Holmes	DATE	1/31/2018	DATE STARTED 12/13/2017
DATE FINISHED		12/15/2017			
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP539 (1-2)	0.0	(0-1') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, glass, moist, tight, dark brown-brown. FILL. Encountered concrete foundation wall and slab at grade.		
		25.2			
		3.9	(1-2') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, glass, black staining, moderate petroleum-like odor, moist, tight, dark brown-brown. FILL. Base of concrete foundation wall observed at 2' bgs.		
		2.2			
		0.3	(2-3') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, glass, moist, tight, dark brown-brown. FILL.		
		2.3			
		1.2	(3-7') SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 6", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, glass, gray staining, slight petroleum-like odor, moist, tight, dark brown-brown. FILL.		
		2.5	Refusal at 7' bgs due to densely packed demolition debris.		
		Bottom of Test Pit at ~7.0 feet.			
		Photograph 1: Completed test pit looking south.  Photograph 2: Completed test pit looking east. 			
NOTES: Test pit to determine location of former MGP structures (former boiler fuel storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.			LENGTH 10 ft. WIDTH 5 ft. DEPTH 7 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP541	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.26	
WEATHER		Cloudy, 43F, NW 10-20 mph.		LOCATION NORTHING 688300.06	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650218.69
OBSERVED BY		Rich Crockett	DATE	12/20/2017	DATE STARTED 12/20/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 12/20/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP541 (4-5)	0.0	(0-3')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, and glass, moist, tight, dark brown-brown. FILL.	
		0.0	(3-4')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, glass, hardened solidified NAPL fragments, moist, tight, tan-light brown. FILL.	
		2.2	(4-5')	SILTY SAND WITH GRAVEL (SM); ~50% fine to coarse sand, mostly fine ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", contains fragmented to whole red brick, concrete chunks up to 8", scrap metal, splintered wood, glass, hardened solidified NAPL fragments, gray staining, slight petroleum-like odor, moist, tight, tan-light brown. FILL. Refusal at 5' bgs due to densely packed demolition debris.	
		3.7			
		6.8		Bottom of Test Pit at ~5.0 feet.	
10					
			Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking west. 		
NOTES: Test pit to determine location of former MGP structures (former tar separator). Datum: New York State Plane NAVD 88. bgs - below ground surface.			LENGTH 10 ft. WIDTH 5 ft. DEPTH 5 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP542	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.98	
WEATHER		Cloudy, Rain, 45F / Clear, 50F		LOCATION NORTHING 688374.12	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650047.16
OBSERVED BY		Rich Crockett	DATE	10/30-31/2017	DATE STARTED 10/30/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 10/31/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
<div style="text-align: center;"> <div style="width: 100px; height: 100px; border: 1px solid black; position: relative;"> <div 10"="" style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; background: linear-gradient(to bottom, transparent 49%, #ccc 49% 51%, #ccc 51% 53%, #fff 53% 55%, #fff 55% 57%, #ccc 57% 59%, #ccc 59% 61%, #fff 61% 63%, #fff 63% 65%, #ccc 65% 67%, #ccc 67% 69%, #fff 69% 71%, #fff 71% 73%, #ccc 73% 75%, #ccc 75% 77%, #fff 77% 79%, #fff 79% 81%, #ccc 81% 83%, #ccc 83% 85%, #fff 85% 87%, #fff 87% 89%, #ccc 89% 91%, #ccc 91% 93%, #fff 93% 95%, #fff 95% 97%, #ccc 97% 99%, #ccc 99% 100%); </div> </div> </div> </td> <td rowspan=">GPEC-TP542 (1-2)</div></div></div>	0.0	(0-1.5')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 8", boulders, contains whole/fragmented red brick, concrete up to boulder size, and metal scrap, black staining, slight petroleum-like odor, dark brown-brown, tight, moist. FILL.		
	5.8				
	4.5	(1.5-5')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 8", boulders, reddish brown-brown, tight, moist. FILL.		
	0.0				
	0.0				
	0.0				
	0.0	(5-7')	SANDY SILT (MLS); ~60% non-plastic to low plasticity silt, ~35% fine to medium sand, ~5% fine to coarse gravel, rounded-subangular up to 1", cobbles up to 5", brown, tight, moist.		
	0.0				
	0.0	(7-10')	SANDY CLAY (CLS); ~70% medium plasticity clay, ~25% fine to medium sand, mostly fine, ~5% fine to coarse gravel up to 1", cobbles up to 5", brown, tight, moist.		
	0.0				
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking south. 		
NOTES: Test pit to determine location of former MGP structures (former tar tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH WIDTH DEPTH 6 ft. 5 ft. 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP543	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.66	
WEATHER		Clear, 55F / Cloudy, Rain, 65F		LOCATION NORTHING 688460.29	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650000.56
OBSERVED BY		Rich Crockett	DATE	10/31, 11/6/2017	DATE STARTED 10/31/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 11/6/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP543 (1-2)	0.0	(0-2')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse gravel rounded to angular up to 3", cobbles up to 6", boulders, contains whole/fragmented red brick, concrete chunks up to 8", dark gray staining, slight petroleum-like odor, dark brown-brown, tight, moist. FILL.	
		0.4			
		0.0	(2-3')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 12", contains fragmented red brick and concrete, brown, tight, moist, FILL.	
		0.0			
		0.0	(3-5')	WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% fine to coarse sand, ~25% fine to coarse gravel, rounded to angular, up to 3", ~15% non-plastic fines, cobbles up to 8", brown, moist, tight.	
		0.0			
		0.0	(5-10')	SILTY SAND (SM); ~70% fine to medium sand, ~20% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 6" brown, tight, moist.	
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking south. 		
NOTES: Test pit to determine location of former MGP structures (former tar tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP545	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 43.44	
WEATHER		Clear, 89F		LOCATION NORTHING 688412.31	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649304.77
OBSERVED BY		Rich Crockett	DATE	9/22/2017, 9/25/2017	DATE STARTED 9/22/2017
CHECKED BY		George Holmes	DATE	1/31/2018	DATE FINISHED 9/25/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP545 (9-10)	0.0	(0-10') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented and whole brick, up to boulder size concrete pieces, steel, cobbles and boulders, moist, dark brown-brown, FILL. Concrete slab observed at 8' bgs.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking east. 		
			DRAFT		
NOTES: Test pit to determine the location of former MGP structures (former residuum oil storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
					

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP546	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 17.05	
WEATHER		Cloudy, 67F, NW 5-10 mph.		LOCATION NORTHING 688576.03	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649655.54
OBSERVED BY		George Holmes	DATE	10/25/2017	DATE STARTED 10/25/2017
CHECKED BY		Chris Morris	DATE	2/2/2018	DATE FINISHED 10/25/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP546 (2.5-3)	0.0	(0-2')	SILTY SAND WITH GRAVEL (SM); ~50% fine sand, ~30% non-plastic fines, ~20% fine to coarse gravel, angular to subrounded up to 3", cobbles, contains fragmented to whole red brick, cobble sized chunks of concrete, metal scrap, wood fragments, plastic debris, cloth debris, organics/roots, brown, tight, dry. FILL.	
		0.0			
		0.0	(2-2.5')	SILTY GRAVEL WITH SAND (GM); ~50% fine to coarse gravel, rounded to subangular up to 3", ~30% non-plastic fines, ~20% fine sand, contains fragmented to whole red brick, cobble sized chunks of concrete, brown to orangey-tan, tight, dry. FILL	
		63.1			
		0.0	(2.5-3')	SILTY SAND WITH GRAVEL (SM); ~50% fine sand ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to subangular up to 3", cobbles, contains fragmented to whole red brick, black staining, petroleum-like odor, dry, tight. FILL.	
		0.0			
		0.0	(3-4')	SILTY SAND WITH GRAVEL (SM); ~50% fine sand ~30% non-plastic fines, ~20% fine to coarse gravel, rounded to subangular up to 3", cobbles, contains fragmented to whole red brick, brown, dry, tight. FILL	
		0.0	(4-9')	WIDELY GRADED GRAVEL WITH SAND (GW); ~70% fine to coarse gravel, rounded to subangular up to 3", ~30% fine to coarse sand, cobbles, tan, loose, dry.	
		0.0			
		0.0			
10		0.0	(9-10')	WIDELY GRADED SAND (SW); ~90% fine to coarse sand, ~10% fine to coarse gravel, subrounded to subangular up to 1.5", tan, dry, loose.	
		0.0	Bottom of Test Pit at ~10.0 feet.		
			Photograph 1: Completed test pit looking east.		
			Photograph 2: Completed test pit looking west.		
			 		
NOTES:			DRAFT		
Test pit to determine location of former MGP structures (former liquid petroleum compressor house #2). Datum: New York State Plane NAVD 88. bgs - below ground surface.			LENGTH 7 ft. WIDTH 5 ft. DEPTH 10 ft.		
					

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP547	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.16	
WEATHER		Cloudy, Rain, 53F		LOCATION NORTHING 688571.83	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649986.85
OBSERVED BY		Rich Crockett	DATE	11/7/2017	DATE STARTED 11/7/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 11/7/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5 10	GPEC-TP547 (1-2)	0.0	(0-4')	WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse sand ~20% fine to coarse gravel, rounded to angular up to 3", ~10% non-plastic fines, cobbles up to 12", boulders up to 14", contains fragmented red brick, concrete fragments, and glass fragments, layer of hardened solidified NAPL containing sediments approximately 0.5' bgs and varying in thickness from 1' to 3.5' west to east, black staining, slight naphthalene-like odor, tan-brown, tight, moist, FILL.	
		2.2			
		3.8			
		1.1			
		1.3	(4-10')	WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~70% fine to coarse sand ~20% fine to coarse gravel, rounded to angular up to 3", ~10% non-plastic fines, cobbles up to 12", boulders up to 14", light tan-tan, tight, moist.	
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking south. 		
NOTES: Test pit to determine location of former MGP feature (former tar pond). Datum: New York State Plane NAVD 88. bgs - below ground surface.				GEI Consultants LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP548	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.44	
WEATHER		Cloudy, Rain, 53F		LOCATION NORTHING 688620.08	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650041.95
OBSERVED BY		Rich Crockett	DATE	11/8-11/9/2017	DATE STARTED 11/8/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 11/9/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP548 (2-3)	0.0	(0-6')	WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% fine to coarse sand ~30% fine to coarse gravel, rounded to angular up to 3", ~10% non-plastic fines, cobbles up to 12", contains fragmented red brick, concrete, hardened solidified NAPL containing sediments from 0-6' bgs, black staining, naphthalene-like odor, brown, tight, moist, FILL.	
		4.2			
		13.1			
		8.5			
		3.7			
		2.1			
		1.6	(6-10')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand ~10% fine to coarse gravel, rounded to angular up to 1", ~10% non-plastic fines, light brown-brown, moist, loose.	
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		
NOTES: Test pit to determine location of former MGP feature (former tar pond). Datum: New York State Plane NAVD 88. bgs - below ground surface.				 LENGTH 12 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP549	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 17.17	
WEATHER		Clear, 50F, NE 6-9 mph. Clear, 38F, NW 10-15 mph.		LOCATION NORTHING 688614.90	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650088.89
OBSERVED BY		Rich Crockett	DATE	11/9-11/10/2017	DATE STARTED 11/9/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 11/10/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP549 (9.5-10)	0.0	(0-2') SILTY SAND (SM); ~75% fine to coarse sand ~20% non-plastic fines, ~5% fine to coarse gravel, rounded to angular up to 3", cobbles up to 12", contains concrete fragments to 15", and timbers, moist, loose, brown. FILL.		
		0.0			
		0.0	(2-4') SILTY SAND (SM); ~75% fine to coarse sand ~20% non-plastic fines, ~5% fine to coarse gravel, rounded to angular up to 3", cobbles up to 5", contains concrete fragments to 15", and timbers, moist, loose, brown. FILL.		
		0.0			
		0.0	(4-10') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~15% non-plastic fines, ~5% fine to coarse gravel, rounded to angular up to 1", moist, loose, brown.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		
NOTES: Test pit to determine location of former MGP structures (former dry tar storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 12 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP550	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 18.88	
WEATHER		Clear, 38F, W 10-15 mph.		LOCATION NORTHING 688627.27	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650156.16
OBSERVED BY		Rich Crockett	DATE	12/7/2017	DATE STARTED 12/7/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 12/7/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP550 (1-2)	0.0	(0-1.5') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, concrete chunks up to 15", metal scrap, glass, fragments and layers of solidified NAPL slightly pliable to hardened, black staining, slight naphthalene-like odor, moist, tight, dark brown to brown. FILL. Concrete foundation wall encountered at 0.4' bgs.		
		9.1			
		2.9	(2-6') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 8", contains fragmented to whole red brick, concrete chunks up to 15", metal scrap, glass, moist, tight, dark brown to brown. FILL. Encounter 4" steel pipe 3' bgs. Base of concrete foundation wall observed at 5' bgs.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0	(6-10') SILTY SAND (SM); ~70% fine to medium sand, mostly fine ~25% non-plastic fines, ~5% fine to coarse gravel, rounded to angular up to 1", loose, moist, light tan-tan.		
		0.0			
		0.0			
10			Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking south.  Photograph 2: Completed test pit, pipe and wall base. 		
NOTES: Test pit to determine location of former MGP structures (former dry tar storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP551	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 19.45	
WEATHER		Cloudy, Snow, 37F, W 10-15 mph. Cloudy, Rain, 45F, SW 10-15 mph.		LOCATION NORTHING 688719.01	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650148.94
OBSERVED BY		Rich Crockett	DATE	12/11-12/12/2017	DATE STARTED 12/11/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 12/12/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP551 (9.5-10)	0.0	(0-1') SILTY SAND (SM); ~50% fine to coarse sand, mostly fine, ~40% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 7", contains fragmented red brick and concrete, moist, tight, dark brown. FILL.		
		0.0			
		0.0	(1-10') SILTY SAND (SM); ~75% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~5% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", contains fragmented red brick and concrete, oxidation staining, moist, tight, brown. FILL.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10			Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking south. 		
NOTES:			Test pit to determine location of former MGP feature (former tar pond). Datum: New York State Plane NAVD 88. bgs - below ground surface.		
			LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP552	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.44	
WEATHER		Partly Cloudy, 38F, NW 15-20 mph.		LOCATION NORTHING 688691.84	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650048.84
OBSERVED BY		Rich Crockett	DATE	11/10-11/14/2017	DATE STARTED 11/10/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 11/14/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP552 (7.5-8)	0.0	(0-2') SILTY SAND (SM); ~60% fine to coarse sand, ~30% non-plastic to low plasticity fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 11", contains fragmented to whole red brick and fragmented concrete, moist, tight, brown. FILL.		
		0.0			
		0.0	(2-4') SANDY SILT (MLS); ~70% low plasticity fines, ~25% fine to medium sand, ~5% fine to coarse gravel, rounded to angular up to 1", cobbles up to 9", moist, tight, light tan to tan.		
		0.0			
		0.0	(4-5') SILTY SAND WITH GRAVEL (SM); ~60% fine to coarse sand, ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", moist, loose, oxidation staining, tan-light brown.		
		0.0	(5-6') SILTY SAND WITH GRAVEL (SM); ~60% fine to coarse sand, ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 3", moist, loose, tan-light brown.		
		0.0	(6-8') SILTY SAND WITH GRAVEL (SM); ~60% fine to coarse sand, ~20% non-plastic fines, ~20% fine to coarse gravel, rounded to angular up to 1", moist, loose, tan-light brown.		
		0.0			
		0.0	Groundwater encountered at 8' bgs.		
		0.0	Bottom of Test Pit at ~8.0 feet.		
10			Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		
NOTES:			DRAFT		
Test pit to determine location of former MGP feature (former tar pond). Datum: New York State Plane NAVD 88. bgs - below ground surface.			LENGTH 14 ft. WIDTH 5 ft. DEPTH 8 ft.		
					

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP553	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.54	
WEATHER		Partly Cloudy, 37F, W 10-15 mph.		LOCATION NORTHING 688692.99	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 650008.17
OBSERVED BY		Rich Crockett	DATE	11/20/2017	DATE STARTED 11/20/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 11/20/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP553 (1-2)	0.0	(0-1.5') SILTY SAND (SM); ~60% fine to coarse sand, ~30% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 12", 5-8" thick hardened solidified NAPL layer, black staining, slight naphthalene-like odor, moderate petroleum-like odor, moist, tight, brown. FILL		
		46.1	(1.5-3') SANDY SILT (MLS); ~60% non-plastic to low plasticity fines, ~30% fine to medium sand, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 7", gray staining, slight petroleum-like odor, moist, tight, tan-light brown.		
		1.6			
		0.4	(3-4') WIDELY GRADED SAND WITH SILT (SW-SM); ~70% fine to coarse sand, ~15% non-plastic fines, 15% fine to coarse gravel, rounded to angular up to 3", cobbles up to 5", oxidation staining, moist, tight, brown.		
		0.0	(4-5') WIDELY GRADED SAND WITH SILT (SW-SM); ~70% fine to coarse sand, ~15% non-plastic fines, 15% fine to coarse gravel, rounded to angular up to 3", cobbles up to 5", moist, moderately tight, tan.		
		6.1	(5-7') WIDELY GRADED SAND WITH SILT (SW-SM); ~70% fine to coarse sand, ~15% non-plastic fines, 15% fine to coarse gravel, rounded to angular up to 3", cobbles up to 5", gray staining, slight petroleum-like odor, moist, moderately tight, tan.		
		10.2	Groundwater encountered at 7' bgs.		
8.8	Bottom of Test Pit at ~7.0 feet.				
10			Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		
NOTES: Test pit to determine location of former MGP feature (former tar pond). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 7 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP554	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 16.45	
WEATHER		Cloudy, Rain, 55F, W 10-15 mph. Clear, 48F, NW 10-15 mph.		LOCATION NORTHING 688680.81	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649937.83
OBSERVED BY		Rich Crockett	DATE	11/16-11/17/2017	DATE STARTED 11/16/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 11/17/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
	GPEC-TP554 (2-3)	0.0	(0-1') SILTY SAND (SM); ~60% fine to coarse sand, ~30% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", moist, tight, dark brown to brown. FILL.		
		0.0	(1-4') SILTY SAND (SM); ~60% fine to coarse sand, ~30% non-plastic fines, ~10% fine to coarse gravel, rounded to angular up to 3", cobbles up to 9", 3-5" layer of slightly plible solidified NAPL dipping to the north to 4' bgs, gray-dark gray staining, petroleum-like odor, moist, tight, dark brown to brown. FILL.		
		12.2			
		99.4			
		0.6	(4-10') SILTY SAND (SM); ~75% fine to coarse sand, ~20% non-plastic fines, ~5% fine to coarse gravel, rounded to angular up to 3", cobbles up to 12" moist, tight, brown. FILL.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking west. 		
NOTES: Test pit to determine location of former MGP feature (former tar pond). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft. 	

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TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI				GPEC-TP555	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				1 OF 1	
CLIENT		National Grid				PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)				ELEVATION 15.74	
WEATHER		Clear, 60'sF				NORTHING 688635.42	
CONTRACTOR		O'Leary Construction		OPERATOR John O'leary		EASTING 649848.83	
OBSERVED BY		George Holmes		DATE 6/3/2019		DATE STARTED 6/3/2019	
CHECKED BY		Chris Morris		DATE 7/31/2019		DATE FINISHED 6/3/2019	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5		0.0	(0-7') SILTY SAND WITH GRAVEL (SM); ~60% fine to medium sand, ~20% non-plastic fines, ~20% fine to coarse angular-subrounded gravel up to 4", cobbles up to 6", red brick fragments, dry, loose, brown-tan, FILL.
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
10	GPEC-TP555 (9.5-10)	0.0	(7-10') NARROWLY GRADED SAND WITH SILT AND GRAVEL (SP-SM); ~70% fine to medium sand, ~10% non-plastic fines, ~20% fine to coarse subangular to subrounded gravel up to 4", brown, dry, loose.
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
			Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit.  Photograph 2: Completed test pit. 

NOTES: Test pit to determine location of former MGP structures. Datum: New York State Plane NAVD 88. bgs - below ground surface.	TEST PIT DIMENSIONS: LENGTH 18 ft. WIDTH 3 ft. DEPTH 10 ft.
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TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP556	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1 OF 1	
CLIENT		National Grid			PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			ELEVATION 47.33	
WEATHER		Cloudy, 82F			LOCATION NORTHING 688531.93	
CONTRACTOR		O'Leary Construction	OPERATOR	John O'Leary	LOCATION EASTING 649323.32	
OBSERVED BY		Rich Crockett	DATE	8/22/17, 8/23/17	DATE STARTED 8/22/2017	
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 8/23/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP556 (3-4)	0.0	(0-5') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~20% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, tile and concrete, steel, ash, fragmented coal, clinkers, and oxidation staining, dark gray-gray staining increasing from 1-5' thick south to north, burnt odor, dark brown- brown, moist, FILL. Concrete foundation wall observed at grade on northern edge of test pit.			
		0.0				
		0.0				
		0.0				
		0.1				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
10		0.0	(5-10') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~15% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3" moist, contains cobbles and boulders, reddish brown. Concrete slab observed 5' bgs and extends 4' off enclosure wall. Base of concrete foundation wall observed at 6' bgs.			
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		0.0				
		Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking west.  Photograph 2: Base of foundation wall. 				
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NOTES: Test pit to determine location of former MGP structures (former motor fuel storage tank #1). Datum: New York State Plane NAVD 88. bgs - below ground surface.					LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
						

TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI				GPEC-TP557	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211				1 OF 1	
CLIENT		National Grid				PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)				ELEVATION 22.37	
WEATHER		Clear, 60'sF				NORTHING 688792.96	
CONTRACTOR		O'Leary Construction	OPERATOR		Fergal Troy	EASTING 649996.23	
OBSERVED BY		George Holmes	DATE		5/6/2019	DATE STARTED 5/6/2019	
CHECKED BY		Chris Morris	DATE		7/31/2019	DATE FINISHED 5/6/2019	

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
5	GPEC-TP557 (1.5-2)	0.0	(0-3") STONE
		0.0	(3"-2') SILTY SAND WITH GRAVEL (SM); ~50% fine to medium sand, ~30% non-plastic fines, ~20% fine to coarse angular-subrounded gravel up to 4", cobbles up to 10", pieces of red brick and concrete, stained black from 18"-20", dry, loose, brown, FILL.
		0.0	
		0.0	(2-10') NARROWLY GRADED SAND (SP); ~90% fine to medium sand, ~5% non-plastic fines, ~5% fine gravel, tan, dry, loose.
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		0.0	
		10	
Photograph 1: Black staining from 18"-20".  Photograph 2: Completed test pit. 			

NOTES: Test pit to determine location of former MGP feature. Datum: New York State Plane NAVD 88. bgs - below ground surface.		TEST PIT DIMENSIONS: LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP559	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 49.29	
WEATHER		Clear, 82F		LOCATION NORTHING 688621.76	
CONTRACTOR		O'Leary Construction	OPERATOR	John O'Leary	LOCATION EASTING 649293.53
OBSERVED BY		Rich Crockett	DATE	8/21/2017	DATE STARTED 8/21/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 8/21/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP559 (6-7)	1.2	(0-2')	SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, up to boulder sized concrete, steel, cobbles and boulders, gray staining, dark brown- brown, moist, FILL. Encountered top of concrete foundation wall 1.5' bgs on south edge of test pit.	
		1.1			
		9.8	(2-3')	SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, up to boulder sized concrete, steel, clinkers, cobbles and boulders, gray staining, dark brown- brown, moist, FILL.	
		7.7			
		0.6	(3-7')	SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, up to boulder sized concrete, steel, clinkers, cobbles and boulders, stained, burnt odor, reddish brown- brown, moist, FILL.	
		2.1			
		11.9			
		0.2	(7-8')	SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, up to boulder sized concrete, steel, clinkers, cobbles and boulders, black staining, burnt odor, reddish brown- brown, moist, FILL. Concrete slab observed at 7' bgs extending 4' off foundation wall.	
		0.0			
		0.0	(8-10')	SILTY SAND (SM); ~60% fine to medium sand, mostly fine, ~30% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains cobbles, reddish brown- brown, moist.	
10		0.0	Bottom of Test Pit at ~10.0 feet.		
		Photograph 1: Completed test pit looking west. Photograph 2: Base of foundation wall.			
			 		
DRAFT					
NOTES: Test pit to determine location of former MGP structures (former motor fuel storage #1). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	
					

TEST PIT LOG					TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP560	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211			1	1
CLIENT		National Grid			PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			ELEVATION 49.97	
WEATHER		Cloudy, Rain, 80F			LOCATION NORTHING 688716.02	
CONTRACTOR		O'Leary Construction	OPERATOR	John O'Leary	LOCATION EASTING 649286.83	
OBSERVED BY		Rich Crockett	DATE	8/18/2017, 8/21/2017	DATE STARTED 8/18/2017	
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 8/21/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks			
5	GPEC-TP560 (4-5)	0.0	(0-5') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~10% fine to coarse rounded-subangular gravel up to 3", ~10% non-plastic fines, contains fragments of brick and concrete, steel, dark gray and bluish-green staining, dark brown-brown, moist, , FILL. Top of concrete foundation wall at 0.5' bgs on west endge of test pit. Encountered 3" diameter steel pipe oriented east-west going into foundation wall 3' bgs, and an 8" diameter steel pipe oriented north-south abutting foundation wall 3' bgs.			
		0.1				
		0.2				
		0.1				
		0.1	(4-5') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~10% fine to coarse rounded-subangular gravel up to 3", ~10% non-plastic fines, contains fragments of brick and concrete, steel, dark gray and bluish-green staining, burnt odor, dark brown- brown, moist, , FILL			
		0.0				
		0.0	(5-10') SILTY SAND (SM); ~60% fine to medium sand, mostly fine, ~35% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3" moist, reddish brown. Concrete slab observed 5' bgs.			
		0.0				
		0.0				
		0.0				
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Blue-green material encountered.  Photograph 2: Foundation wall. 			

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NOTES:

Test pit to determine location of former MGP structures (former residual distillate storage tank).

Datum: New York State Plane NAVD 88.

bgs - below ground surface.



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LENGTH	10 ft.
WIDTH	5 ft.
DEPTH	10 ft.

TEST PIT LOG					TEST PIT NUMBER		
PROJECT		Greenpoint Energy Center Phase 3 RI			GPEC-TP561 1 OF 1		
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211					
CLIENT		National Grid			PROJECT NO. 125180-3-1302		
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)			ELEVATION 50.09		
WEATHER		Clear, 81F			LOCATION NORTHING 688726.84		
CONTRACTOR		O'Leary Construction	OPERATOR	John O'Leary	LOCATION EASTING 649239.97		
OBSERVED BY		Rich Crockett	DATE	8/17/2017, 8/18/2017	DATE STARTED 8/17/2017		
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 8/18/2017		
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks				
5	GPEC-TP561 (1-2)	0.0	(0-1') SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, up to boulder size concrete, steel, cobbles, boulders, clinkers, fargmented solidified NAPL, dark brown- brown, moist, FILL. Encountered top of concrete foundation wall 0.5' bgs.				
		1.2					
		0.6	(1-3') SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, up to boulder size concrete, steel, cobbles, boulders, clinkers, fargmented solidified NAPL, bluish-green staining, dark brown- brown, moist, FILL.				
		0.7					
		1.1	(3-5') SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick, up to boulder size concrete, steel, cobbles, boulders, clinkers, fargmented solidified NAPL, gray staining, burnt odor, dark brown- brown, moist, FILL.				
		0.6	(5-8') SILTY SAND (SM); ~65% fine to medium sand, mostly fine, ~30% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", moist, reddish brown. Concrete slab observed 5' bgs extending 3' off of foundation wall.				
		0.0					
		0.1					
		0.0	(8-10') SILTY SAND WITH GRAVEL (SM); ~60% fine to coarse sand, ~20% non-plastic fines, ~20% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, brown.				
		0.0					
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Bluish-green staining.  Photograph 2: Base of foundation wall. 				
NOTES: Test pit to determine location of former MGP structures (former residual distillate storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.					LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.		

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TEST PIT LOG						TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI				GPEC-TP562	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211					
CLIENT		National Grid					
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)				PROJECT NO. 125180-3-1302	
WEATHER		Cloudy, 73F/Partly Cloudy, 74F				ELEVATION 48.41	
CONTRACTOR		O'Leary Construction		OPERATOR		Fergal Troy	
OBSERVED BY		Rich Crockett/George Holmes		DATE		9/7/2017	
CHECKED BY		George Holmes		DATE		10/2/2017	
DATE FINISHED		9/8/2017					
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks				
5	GPEC-TP562 (0-1)	0.0	(0-1.5') SILTY SAND (SM); ~70% fine to coarse sand, ~20% non-plastic fines, ~10% fine to coarse angular-subrounded gravel up to 3", contains cobbles, fragments and pieces of red brick, concrete fragments, porcelain fragments, pieces of stucco/clay pipe, timbers, and metal scrap, thin pieces of solid NAPL (similar to tar applied to LNG tank containment berms) just below the surface, some black staining in NAPL area, dark brown, moist, FILL. Concrete foundation wall encountered just below surface along northwest boundary of test pit.				
		0.0					
		0.0					
		0.0	(1.5-7') SILTY SAND (SM); ~70% fine to coarse sand, ~20% non-plastic fines, ~10% fine to coarse angular-subrounded gravel up to 3", contains cobbles/boulders, red brick and concrete fragments, brown-reddish brown, moist, FILL. Two steel pipes oriented north-south were encountered 3' bgs, and a 10"-diameter steel pipe oriented northeast-southwest was encountered 4' bgs. The base of the foundation wall was encountered at 5.5' bgs.				
		0.0					
		0.0					
		0.0					
		0.0					
		0.0					
		0.0	(7-10') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, ~10% fine to coarse subangular to subrounded gravel up to 2.5", ~10% non-plastic fines, contains cobbles/boulders, brown, moist.				
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking northwest.  Photograph 2: Completed test pit looking northeast. 				
NOTES: Test pit to determine location of former MGP structures (former crude solvent storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.						LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP563	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 42.56	
WEATHER		Clear 77F		LOCATION NORTHING 688946.51	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649662.78
OBSERVED BY		Rich Crockett	DATE	9/12/2017, 9/13/2017	DATE STARTED 9/12/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 9/13/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5 10	GPEC-TP563 (2-3)	0.0	(0-7) WIDELY GRADED SAND WITH SILT (SW-SM); ~75% fine to coarse sand, mostly fine, ~15% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick, up to boulder size concrete and asphalt, metal scrap, plastic and cloth debris, cobbles and boulders, moist, dark brown-brown, FILL.		
		0.0			
		0.9			
		2.1			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0	Refusal due to densely packed demolition debris at 7 ft. below ground surface. (bgs)		
		0.0	Bottom of Test Pit at ~7.0 feet.		
			Photograph 1: Completed test pit looking east.  Photograph 2: Completed test pit looking south. 		
NOTES: Test pit to further investigate impacts noted in nearby test pits (former second propane storage farm). Datum: New York State Plane NAVD 88. bgs - below ground surface				GEI  LENGTH WIDTH DEPTH 10 ft. 5 ft. 7 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP564	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 50.70	
WEATHER		Clear, 86F		LOCATION NORTHING 688840.23	
CONTRACTOR		O'Leary Construction	OPERATOR John O'Leary	LOCATION EASTING 649236.44	
OBSERVED BY		Rich Crockett	DATE 8/16/2017	DATE STARTED 8/16/2017	
CHECKED BY		George Holmes	DATE 2/1/2018	DATE FINISHED 8/16/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
	GPEC-TP564 (5-6)	0.0	(0-3')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick and concrete, cobbles, boulders, grayish brown- brown, moist, FILL. Encountered top of concrete foundation wall 0.5' bgs.	
		0.1			
		0.0			
		0.0	(3-5')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick and concrete, cobbles, boulders, fragmented solidified NAPL, naphthalene-like odor, reddish brown-brown, moist, FILL.	
		10.7			
		140.9	(5-7')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine, ~30% non-plastic fines, ~10% fine to coarse rounded-subangular gravel up to 3", contains fragments of brick and concrete, cobbles, boulders, fragmented solidified NAPL, gray staining, petroleum-like odor, reddish brown-brown, moist, FILL. Base of foundation wall observed at 5' bgs.	
		47.9			
		26.2	(7-10')	SILTY SAND (SM); ~70% fine to coarse sand, ~25% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 1", contains cobbles and boulders, light gray staining, petroleum-like odor, reddish brown-brown, moist.	
		14.7			
		9.9			
6.7	Bottom of Test Pit at ~10.0 feet. Photograph 1: Excavation looking east.  Photograph 2: Base of foundation wall. 				
NOTES:			Test pit to determine location of former MGP structures (former motor fuel storage tank #2). Datum: New York State Plane NAVD 88. bgs - below ground surface. LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP565	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 47.45	
WEATHER		Clear 77F		LOCATION NORTHING 688924.87	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649395.94
OBSERVED BY		Rich Crockett	DATE	9/11/2017	DATE STARTED 9/11/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 9/11/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP565 (2-3)	0.0	(0-1')	SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~25% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick, tile and glass, up to boulder size concrete, solidified NAPL fragments, spots of staining, dark brown-brown, moist, FILL. Top of concrete foundation wall observed at 0.8' bgs.	
		0.0			
		1.2	(1-2')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~15% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick and concrete, cobbles and boulders, moist, brown, FILL.	
		0.7	(2-3')	WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~15% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented brick and concrete, cobbles and boulders, clinkers, solidified NAPL fragments, dark gray staining, sulfur-like odor, moist, brown, FILL.	
		0.2			
		0.0	(3-10')	SILTY SAND (SM); ~60% fine to medium sand, mostly fine, ~35% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains cobbles and boulders, moist, reddish brown-brown. Base of foundation wall observed at 6 ft. bgs.	
		0.0			
		0.0			
		0.0			
		0.0			
10		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking west.  Photograph 2: Completed test pit looking south. 		
NOTES: Test pit to determine location of former MGP structures (former crude solvent storage tank). Datum: New York State Plane NAVD 88. bgs - below ground surface.				LENGTH 10 ft. WIDTH 5 ft. DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP566	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 51.15	
WEATHER		Cloudy, 79F		LOCATION NORTHING 688897.05	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	LOCATION EASTING 649138.96
OBSERVED BY		Rich Crockett	DATE	9/20/2017, 9/21/2017	DATE STARTED 9/20/2017
CHECKED BY		George Holmes	DATE	2/1/2018	DATE FINISHED 9/21/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP566 (2-3)	0.0	(0-1') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine, ~25% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains fragmented-whole brick, up to boulder size concrete, steel, and cobbles, moist, dark brown-brown, FILL. Encountered top of concrete foundation wall 1.5' bgs.		
		0.0			
		0.0	(1-5') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~15% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains cobbles, boulders, fragmented solidified NAPL, moist, reddish brown-brown.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10		0.0	(5-10') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine, ~15% non-plastic fines, ~5% fine to coarse rounded-subangular gravel up to 3", contains cobbles, boulders, moist, reddish brown-brown. Base of foundation wall observed 5 ft. bgs.		
		0.0	Bottom of Test Pit at ~10.0 feet. Photograph 1: Completed test pit looking north.  Photograph 2: Completed test pit looking south. 		
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NOTES:				LENGTH 10 ft.	
Test pit to determine location of former MGP structures (former motor fuel storage tank #2).				WIDTH 5 ft.	
Datum: New York State Plane NAVD 88.				DEPTH 10 ft.	
bgs - below ground surface.					

TEST PIT LOG

TEST PIT NUMBER

GPEC-TP567

PROJECT Greenpoint Energy Center Phase 3 RI
LOCATION 287 Maspeth Ave, Brooklyn, NY 11211
CLIENT National Grid

EQUIPMENT Vac Truck (Guzzler CL) and Backhoe (CAT 430)
WEATHER Clear, 82F
CONTRACTOR O'Leary Construction OPERATOR Fergal Troy
OBSERVED BY Rich Crockett DATE 8/9/2017
CHECKED BY George Holmes DATE 8/17/2017

PROJECT NO. 125180-3-1302
ELEVATION 23.3
NORTHING 687553.42
EASTING 649284.81
DATE STARTED 8/9/2017
DATE FINISHED 8/9/2017

Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks
		0.0	(0-2') SILTY SAND (SM); ~60% fine to medium sand, mostly fine ~5% fine rounded-subangular gravel up to 2", ~35% non-plastic fines, contains fragmented brick and concrete, dark brown-brown, moist, FILL.
		0.0	
		(2-8')	Similar to above, staining, odor.
		0.1	
		0.4	
5		0.3	
		0.7	
		1.0	
		0.6	(8-10') SILTY SAND (SM); ~70% fine to coarse sand, mostly fine ~5% fine to coarse rounded-subangular gravel up to 2.5", ~25% non-plastic fines, contains cobbles and boulders, reddish brown, moist.
		0.7	
		(10-11')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~10% fine rounded-subangular gravel up to 0.5", ~30% non-plastic fines, reddish-orange to black flaky material with sheen, staining, odor, dark gray, moist. Test pit backfilled on reverse basis.
10		2.5	
	GPEC-TP567 (10-11)	2.7	
		4.9	Bottom of Test Pit at ~11.0 feet.
			Photograph 1: Reddish-orange to black flaky material.  Photograph 2: Soil horizon looking east. 

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NOTES:

Test pit to determine location of former MGP structures.

Datum: New York State Plane NAVD 88.



TEST PIT DIMENSIONS:

LENGTH 10 ft.
WIDTH 5 ft.
DEPTH 11 ft.

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP568	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 25.7	
WEATHER		Cloudy, Rain, 81F		NORTHING 687704.13	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 649235.07
OBSERVED BY		Rich Crockett	DATE	8/8/2017	DATE STARTED 8/8/2017
CHECKED BY		George Holmes	DATE	8/17/2017	DATE FINISHED 8/8/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP568 (3-4)	0.4	(0-2')	SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~10% fine to coarse rounded-angular gravel up to 2.5", ~30% non-plastic fines, contains chunks and fragments of concrete, whole and fragmented bricks, and splintered wood and 4"x6" timbers, dark brown-brown, moist, FILL.	
		0.4	(2-4')	Similar to above, bluish-green staining, odor, FILL.	
		7.6			
		2.6	(4-7')	Similar to above, contains cobbles and boulders, large pieces of stained brick and concrete walls, FILL. Two concrete walls oriented east-west observed in northern portion of test pit. A concrete slab 7' below ground surface (bgs) present between the two walls. Base of concrete wall observed at 8' bgs.	
		3.5			
		3.7			
		2.8			
		3.3			
		1.5	(8-10')	WIDELY GRADED SAND WITH SILT AND GRAVEL (SW-SM); ~60% fine to coarse sand, mostly fine ~10% rounded-angular gravel up to 2.5 inches, ~30% non-plastic fines, contains cobbles boulders and fragmented concrete and brick, dark brown-brown, moist. Test pit backfilled on reverse basis.	
		2.7			
10		3.8	Bottom of Test Pit at ~10.0 feet.		
		Photograph 1: Blue-green material encountered. Photograph 2: Interior/exterior foundation walls.			
			 		
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NOTES:				TEST PIT DIMENSIONS:	
Test pit to determine location of former MGP structures.				LENGTH 15 ft.	
Datum: New York State Plane NAVD 88.				WIDTH 5 ft.	
				DEPTH 10 ft.	
					

TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP569	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 26.9	
WEATHER		Cloudy, 91F/Clear, 83F		NORTHING 687853.01	
CONTRACTOR		O'Leary Construction	OPERATOR	Fergal Troy	EASTING 649159.84
OBSERVED BY		Rich Crockett	DATE	8/2/2017	DATE STARTED 8/2/2017
CHECKED BY		George Holmes	DATE	8/17/2017	DATE FINISHED 8/3/2017
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP569 (6-7)	0.0	(0-2') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine ~5% fine to coarse rounded-subangular gravel up to 2", ~15% non-plastic fines, contains fragmented concrete and brick, light brown-brown, moist, FILL.		
		0.0			
			(2-2.5') ASPHALT.		
		0.6	(2.5-5') WIDELY GRADED SAND WITH SILT (SW-SM); ~80% fine to coarse sand, mostly fine ~5% fine to coarse rounded-subangular gravel up to 3", ~15% non-plastic fines, contains fragmented to whole bricks, fragmented to cobble size concrete, and wood, dark brown-brown, moist, FILL.		
		1.1			
		10.7			
			(5-10') Similar to above, staining, odor, contains boulders, FILL. Test pit backfilled on reverse basis.		
		2.8			
		4.9			
		14.7			
10		9.4			
		10.5			
		9.2			
		11.1	Bottom of Test Pit at ~10.0 feet. Photograph 1: Soil horizon looking north.  Photograph 2: Soil horizon looking south. 		
NOTES:			TEST PIT DIMENSIONS:		
Test pit to determine location of former MGP structures.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 5 ft.		
			DEPTH 10 ft.		

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP570	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 37.4	
WEATHER		Clear, 83F		NORTHING 688245.93	
CONTRACTOR		O'Leary Construction	OPERATOR John O'Leary	EASTING 649074.9	
OBSERVED BY		Rich Crockett	DATE 8/10/2017	DATE STARTED 8/10/2017	
CHECKED BY		George Holmes	DATE 9/7/2017	DATE FINISHED 8/10/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP570 (3-4)	0.1	(0-3') SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~5% fine to coarse rounded-subangular gravel up to 2.25", ~35% non-plastic fines, contains fragments of brick, concrete, and steel, solid NAPL gravel to cobble size, naphthalene-like odor, dark brown-brown, moist, FILL.		
		0.3			
		0.9			
		0.0	(3-4') Similar to above, staining, contains fragmented wood and cobbles, FILL.		
		0.0	(4-8') SANDY SILT (ML); ~60% non-plastic silt, ~20% fine sand, ~10% fine to coarse rounded-subangular gravel up to 3.5", ~10% low-plasticity fines, contains cobbles and boulders, organic odor, dark gray-gray, moist. Base of foundation wall observed at 8' below ground surface (bgs).		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0	(8-10') SILTY SAND (SM); ~60% fine to coarse sand, mostly fine ~10% fine to coarse rounded-angular gravel up to 3.5", ~30% non-plastic fines, contains cobbles and boulders, reddish brown-brown, moist. Test pit backfilled on reverse basis.		
10		0.0	Bottom of Test Pit at ~10.0 feet.		
			Photograph 1: Excavation and base of foundation wall.  Photograph 2: Solid NAPL. 		
NOTES:				TEST PIT DIMENSIONS:	
Test pit to further investigate impacts noted in nearby test pits.				LENGTH 10 ft.	
Datum: New York State Plane NAVD 88.				WIDTH 5 ft.	
				DEPTH 10 ft.	

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TEST PIT LOG				TEST PIT NUMBER	
PROJECT		Greenpoint Energy Center Phase 3 RI		GPEC-TP571	
LOCATION		287 Maspeth Ave, Brooklyn, NY 11211		1 OF 1	
CLIENT		National Grid		PROJECT NO. 125180-3-1302	
EQUIPMENT		Vac Truck (Guzzler CL) and Backhoe (CAT 430)		ELEVATION 36.7	
WEATHER		Clear, 79F		NORTHING 688200.24	
CONTRACTOR		O'Leary Construction	OPERATOR	EASTING 648976.61	
OBSERVED BY		Rich Crockett	DATE	DATE STARTED 8/11/2017	
CHECKED BY		George Holmes	DATE	DATE FINISHED 8/11/2017	
Depth Below Ground Surface (ft)	Sample Depth, No., and Type	PID (ppm)	Soil Description and Remarks		
5	GPEC-TP571 (9.5-10)	0.0	(0-5') SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~5% fine to coarse rounded-subangular gravel up to 3", ~30% non-plastic fines, contains fragments of brick and concrete, cobbles, boulders, brown, moist, FILL.		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
10	GPEC-TP571 (9.5-10)	0.0	(5-7') SILTY SAND (SM); ~65% fine to coarse sand, mostly fine, ~5% fine to coarse rounded-subangular gravel up to 3", ~30% non-plastic fines, contains cobbles and boulders, brown, moist. Base of foundation wall observed at 7' below ground surface (bgs).		
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		0.0			
		Bottom of Test Pit at ~10.0 feet.			
		Photograph 1: Excavation looking northeast.  Photograph 2: Base of foundation wall. 			
DRAFT					
NOTES:			TEST PIT DIMENSIONS:		
Test pit to further investigate impacts noted in nearby test pits.			LENGTH 10 ft.		
Datum: New York State Plane NAVD 88.			WIDTH 5 ft.		
			DEPTH 10 ft.		
					