

Appendix I Site-Related Records

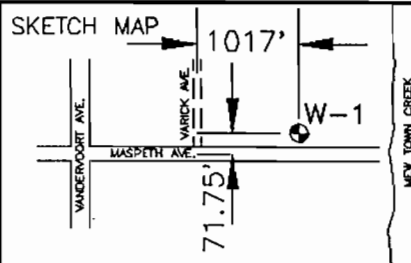
Fanning, Phillips & Molnar

Ronkonkoma

Engineers

New York

PROJECT GREENPOINT UST OWNER BROOKLYN UNION GAS
 LOCATION GREENPOINT FACILITY W.O. No. 291-93-02
 WELL No. W-1 TOTAL DEPTH 19.87 measur. DIAMETER 4"
 SURFACE ELEV. WATER LEVEL INITIAL 10.65* 24-hrs 10.68*
 SCREEN DIA. 4" LENGTH 15.71' SLOT SIZE 0.020"
 CASING DIA. 4" LENGTH 4.53' TYPE MONOFLEX PVC
 DRILLING COMP. ADT, INC DRILLING METHOD HOLLOW STEM AUGER
 DRILLER MARK ADATO LOG BY T. DORISKI DATE DRILLED 10/7/93



NOTES: W-1 IS NYSDEC
WELL #K-3397

DEPTH (FEET)	SAMPLE NUMBER	WELL CONSTRU- CTION	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
0				0-10.5' MATERIAL DRILLED THROUGH IS CLEAN FILL PLACED IN EXCAVATION AFTER REMOVAL OF TANKS.
5				
10				10.5'-11.1' CONCRETE
15	1			14'-16' GRAY TO BLACK MEDIUM TO COARSE SAND W/ FINE TO MED. GRAVEL. WET. STRONG GASOLINE ODOR. PID READING: 300-400 ppm BLOW COUNT: 7-7-5-4
20	2			19'-21' GRAY TO BLACK MEDIUM TO COARSE SAND W/ FINE TO MED. GRAVEL. WET. STRONG GASOLINE ODOR. PID READING: 100-200 ppm
25				4" I.D. PVC MONITORING WELL CONSTRUCTED W/ MONOFLEX SCH.40 PVC WELL SCREEN FROM 4.53' TO 19.74'

* ADJUSTED TO FINAL AS-BUILT ELEVATION OF MEASURING POINT

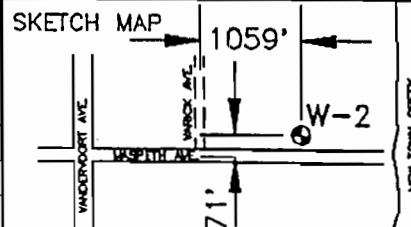
Fanning, Phillips & Molnar

Ronkonkoma

Engineers

New York

PROJECT GREENPOINT UST OWNER BROOKLYN UNION GAS
 LOCATION GREENPOINT FACILITY W.O. No. 291-93-02
 WELL No. W-2 TOTAL DEPTH 19.89 measur. DIAMETER 4"
 SURFACE ELEV. WATER LEVEL INITIAL 11.28 24-hrs 11.01
 SCREEN DIA. 4" LENGTH 15.55' SLOT SIZE 0.020"
 CASING DIA. 4" LENGTH 5' TYPE MONOFLEX PVC
 DRILLING COMP. ADT, INC DRILLING METHOD HOLLOW STEM AUGER
 DRILLER MARK ADATO LOG BY T. DORISKI DATE DRILLED 10/7/93



NOTES: W-2 IS NYSDEC
WELL #K-3398

DEPTH (FEET)	SAMPLE NUMBER	WELL CONSTRU- CTION	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
5				
10	1			9'-10' DARK GRAY TO BLACK COARSE TO MED. SAND. WET.
	2			10'-11' LIGHT GRAY COARSE SAND. DRY. STRONG GASOLINE ODOR. PID READING: 1000-2000 ppm BLOW COUNT: 11-13-17-15
15				11'-13' GRAY TO BLACK COARSE TO MED. SAND, W/ LITTLE FINE SAND. WET. STRONG GASOLINE ODOR. PID READING: 2000-3000 ppm BLOW COUNT: 5-7-6-7
20	3			19'-21' GRAY TO BLACK COARSE TO MED. SAND, W/ LITTLE FINE SAND. WET. STRONG GASOLINE ODOR. PID READING: 50-150 ppm BLOW COUNT: 5-4-3-4
25				4" I.D. PVC MONITORING WELL CONSTRUCTED W/ MONOFLEX SCH.40 PVC WELL SCREEN FROM 4.53' TO 19.7'

Fanning, Phillips & Molnar

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Engineers

New York

PROJECT BUG-GREENPOINT OWNER BROOKLYN UNION

LOCATION 287 MASPETH AVE. W.O. No. 291-93-02

WELL No. MW-3 TOTAL DEPTH 20' DIAMETER 4"

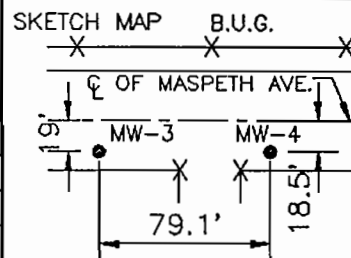
SURFACE ELEV. - WATER LEVEL INITIAL 10' 24-hrs -

SCREEN DIA. 4" LENGTH 15' SLOT SIZE 0.020"

CASING DIA. 4" LENGTH 4.5' TYPE PVC SCH. 40

DRILLING COMP. ADT DRILLING DRILLING METHOD HOLLOW STEM AUGER

DRILLER M. ADAMS LOG BY M.T. RAKOVAN DATE DRILLED 7/11/94



NOTES:

DEPTH (FEET)	SAMPLE NUMBER	WELL CONSTRUCTION	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
1				0-5' MED. TO DARK BROWN FINE SAND & SILT FILL MATERIAL. PID READING: BREATHING ZONE: 0 ppm
2				
3				5'-7' MED. TO DARK BROWN FINE SAND & SILT BLOW COUNT: 18-8-29-40 PID READING: BREATHING ZONE: 0 ppm
4				
5				
6	SPLIT SPOON 5-7			7'-9' DARK BROWN & BLACK FINE & MED. SAND. PETROLEUM ODOR. BLOW COUNT: 22-19-15-17 PID READING: 10-64.9 ppm
7				
8	SPLIT SPOON 7-9			
9				9'-11' GRAYISH MED. BROWN MED. SAND & GRAVEL. PETROLEUM ODOR. SATURATED. PID READING: 60-123 ppm
10	SPLIT SPOON 9-11			
11				
12				11'-20' GRAYISH MED. BROWN MED. SAND & GRAVEL. PETROLEUM ODOR. PETROLEUM STAINS IN CUTTINGS. PID READING: CUTTINGS 420 ppm
13				
14				
15				
16				
17				
18				
19				
20				
21				
				BORING TERMINATED AT 20' & 4" I.D. SCH. 40 PVC WELL CONSTRUCTED. SCREEN FROM 5' TO 20'

Fanning, Phillips & Molnar

Ronkonkoma

Engineers

New York

PROJECT BUG-GREENPOINT OWNER BROOKLYN UNION

LOCATION 287 MASPETH AVE. W.O. No. 291-93-02

WELL No. MW-4 TOTAL DEPTH 20' DIAMETER 4"

SURFACE ELEV. - WATER LEVEL INITIAL 10' 24-hrs

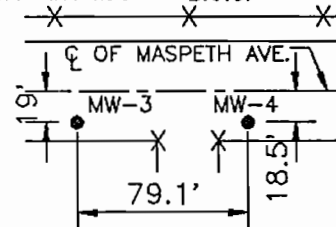
SCREEN DIA. 4" LENGTH 15' SLOT SIZE 0.020"

CASING DIA. 4" LENGTH 4.5' TYPE PVC SCH. 40

DRILLING COMP. ADT DRILLING DRILLING METHOD HOLLOW STEM AUGER

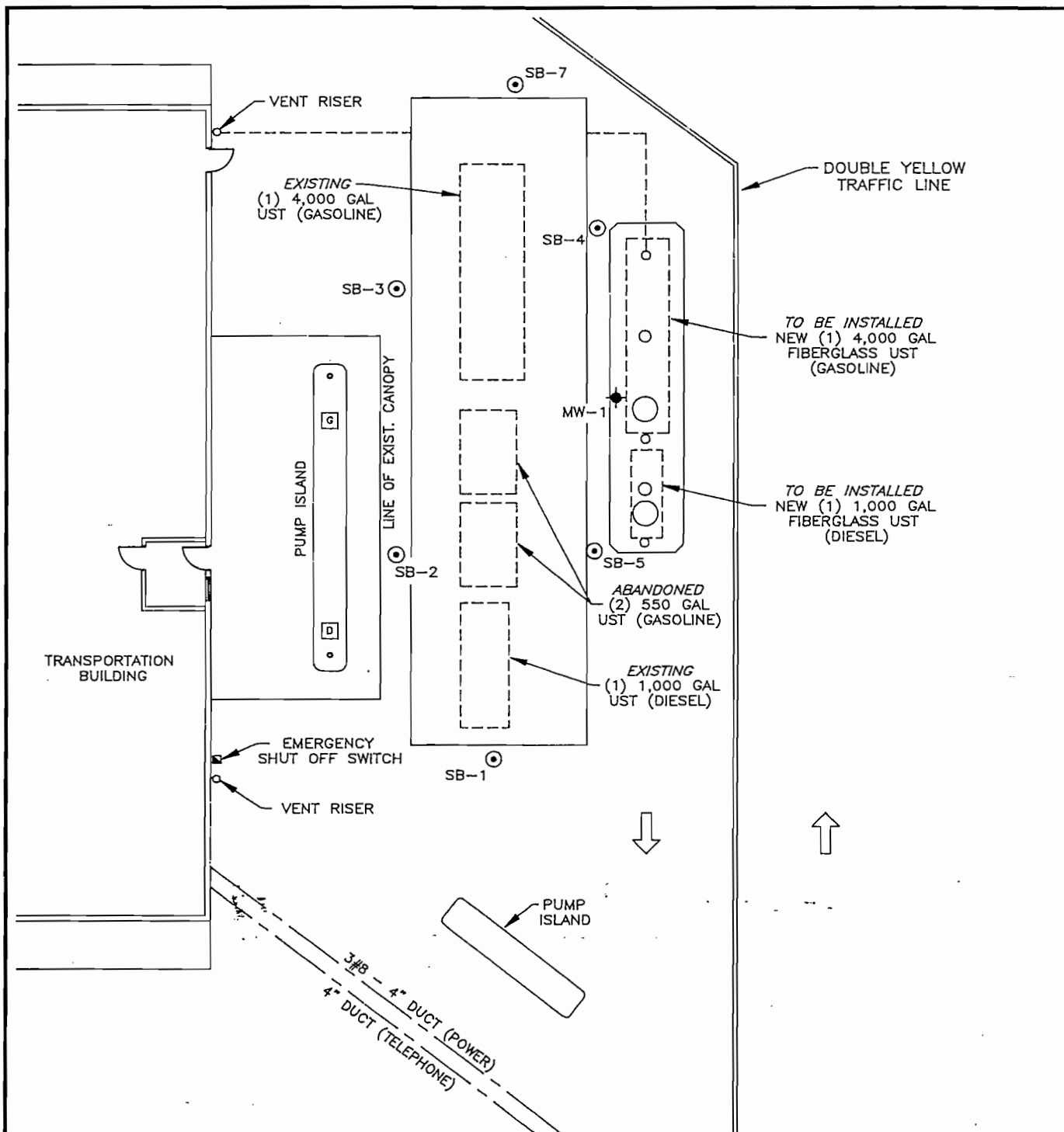
DRILLER M. ADAMS LOG BY M.T. RAKOVAN DATE DRILLED 7/11/94

SKETCH MAP B.U.G.



NOTES:

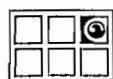
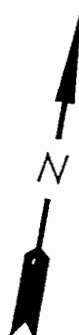
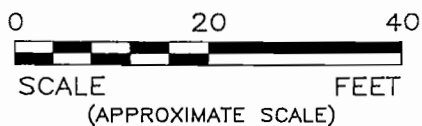
DEPTH (FEET)	SAMPLE NUMBER	WELL CONSTRUCTION	GRAPHIC LOG	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)
1				0-5' BLACK FINE & MED. SAND PID READING: BREATHING ZONE: 0 ppm
2				
3				5'-7' BLACK FINE & MED. SAND W/CONSTRUCTION (BRICK & CONCRETE) & SHINY BLACK METALLIC DEBRIS. BLOW COUNT: 31-32-30-22 PID READING: 20-150 ppm
4				
5				
6	SPLIT			
7	SPOON 5-7			7'-9' LIGHT TO MED. BROWN MED. SAND & SILT. MOIST. PETROLEUM ODOR. BLOW COUNT: 12-8-5-5 PID READING: 520-1132 ppm
8	SPLIT			
9	SPOON 7-9			
10	SPLIT			9'-11' GRAYISH BROWN MED. SAND & GRAVEL. PETROLEUM ODOR. SATURATED. BLOW COUNT: 3-2-4-7 PID READING: -5500 ppm
11	SPOON 9-11			
12				
13				
14				11'-20' GRAYISH BROWN MED. SAND & GRAVEL. PETROLEUM ODOR. SATURATED. PID READING: BREATHING ZONE: 11 ppm
15				
16				
17				
18				
19				
20				
21				BORING TERMINATED AT 20' & 4" I.D. SCH. 40 PVC WELL CONSTRUCTED. SCREEN FROM 5' TO 20'



LEGEND

- ◆ MONITORING WELL
- ⊙ SOIL BORING
- UST UNDERGROUND STORAGE TANK

NOTES: EXISTING TANKS TO BE ABANDONED.



**GROUNDWATER
TECHNOLOGY**

101-1 COLIN DRIVE
HOLBROOK, N.Y. 11741
(516) 472-4000

PROJECT NO.:
01113-0002

ACAD FILE:
0002SBL

DRAWING DATE:
10/10/94

DESIGNED:

PM

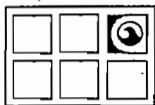
DETAILED:
TS

CHECKED:
PM

SOIL BORING LOCATION SKETCH BROOKLYN UNION GAS GREENPOINT FACILITY

CLIENT/LOCATION:
287 MASPETH AVENUE
BROOKLYN, NEW YORK

FIGURE:
1



GROUNDWATER TECHNOLOGY, INC.

Well I.D.: _____

Page 1 of 1

Project: BROOKLYN UNION GAS

Location: _____

Project No.: 01113-0002-6403

Date: 6-1-94

T.O.C. Elev.: _____

Well Depth: 19.60'

Explor. Depth: 20'

Hole Dia.: _____

Casing - Dia.: 4"

Length: 5'

Type: PVC

Screen - Dia.: 4"

Length: 15'

Slot Size: 0.020"

Drilling Co.: ADT

Driller: JIM SEIDELL

Logged by: TP

Drilling Method: HSA

Rig Type: B-59

Sampling Method: SS

NJDEP Permit #: _____

Notes: _____

Key: ☒ Concrete

☒ Bentonite

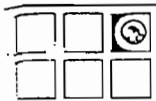
☒ Grout

☒ Sand/Gravel Pack

☒ Well Screen

☐ _____

Depth (feet)	Well Construc- tion	Sample No.	Blows/ 6 in.	FID or PID Rdg.	Soils/Lithology	Comments
0						
1						
2						
3						
4						
5						
6		SS#1	8, 15 7, 9	133 PPM	BROWN MEDIUM GRAIN SAND, TRACE FINES, SOME BLACK DEBRIS, LOW RECOVERY, DRY.	
7						
8						
9						
10						
11		SS#2	10, 10 7, 14	179 PPM	DARK BROWN MEDIUM GRAIN SAND, SOME FINES, TRACE GRAVEL, BOTTOM HALF OF SPECIM WET.	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

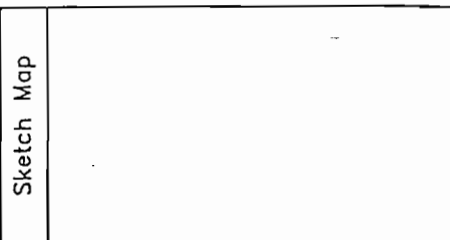


GROUNDWATER
TECHNOLOGY, INC.

Well I.D.: SB-1

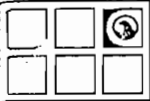
Page 1 of 1

Project: BROOKLYN UNION GAS
Location: 287 MADETH AVE., BROOKLYN, N.Y.
Project No.: 01113-0002 Date: 6/9/94
F.O.C. Elev.: N/A Well Depth: N/A
Explor. Depth: 12' Hole Dia.: 6"
Casing - Dia.: N/A Length: N/A Type: N/A
Screen - Dia.: N/A Length: N/A Slot Size: N/A
Drilling Co.: ADT Driller: JIM SEIDEL Logged by: CARIS BONA
Drilling Method: HSA Rig Type: MOBILE B-59 Sampling Method: SPLIT SPOON
NJDEP Permit #: _____ Notes: _____



Key: ☒ Concrete ☒ Bentonite ☒ Grout ☒ Sand/Gravel Pack ☒ Well Screen ☐

Depth (feet)	Well Construc- tion	Sample No.	Blows/ 6 in.	FID or PID Rdg.	Soils/Lithology	Comments
0						
1						
2						
3						
4						
5			8/10	15	DARK BROWN AND BROWN SAND, DRY,	
6			10/11		FINE GRAINED, POORLY SORTED, SOME	
7					CLAYEY SAND.	
8						
9						
10			11/10	300	DARK BROWN AND BROWN CLAYEY SAND, WET,	
11			8/8		SOME PEBBLES AND GRAVEL, POORLY SORTED	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						



GROUNDWATER
TECHNOLOGY, INC.

Well I.D.: SB-2

Page 1 of 1

Project: BROOKLYN UNION GAS

Location: 287 MASPETH AVE., BROOKLYN UNION GAS

Project No.: 01113-0002

Date: 6/9/74

T.O.C. Elev.: N/A

Well Depth: N/A

Explor. Depth: 12'

Hole Dia.: 6"

Casing - Dia.: N/A

Length: N/A

Type: N/A

Screen - Dia.: N/A

Length: N/A

Slot Size: N/A

Drilling Co.: AST

Driller: JIM SEIDEL

Logged by: CHRIS BONA

Drilling Method: HSA

Rig Type: MOBILE B-59

Sampling Method: SPIR SPOON

NJDEP Permit #:

Notes:

Key: ☒ Concrete

☒ Bentonite

☒ Grout

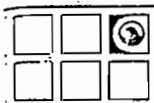
☒ Sand/Gravel Pack

☒ Well Screen

☐

Sketch Map

Depth (feet)	Well Construc- tion	Sample No.	Blows/ 6 in.	FID or P/B Rdg.	Soils/Lithology	Comments
0						
1						
2						
3						
4						
5						
6			8/7	25	BROWN AND BLACK SAND, SOME CLAYEY	
7			7/10		SAND, POORLY SORTED, SOME GRAVEL,	
8					WET AT 7.8'	
9						
10			6/7	900	BROWN CLAYEY SAND TO 10.5' THEN	
11			7/8		BLACK SAND, COARSE GRAINED, THEN	
12					BLACK SAND, FINE GRAINED, FAIRLY WELL	
13					SORTED.	
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						



GROUNDWATER
TECHNOLOGY, INC.

Well I.D.: SB-3

Page 1 of 1

Project: BROOKLYN UNION GAS

Location: 287 MADGETH AVE., BROOKLYN, N.Y.

Project No.: 01113-0002 Date: 6/9/94

F.O.C. Elev.: N/A Well Depth: N/A

Explor. Depth: 12' Hole Dia.: 6"

Casing - Dia.: N/A Length: N/A Type: N/A

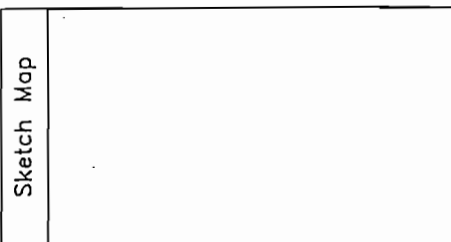
Screen - Dia.: N/A Length: N/A Slot Size: N/A

Drilling Co.: ADT Driller: JIM SEIDEL Logged by: CHRIS BONA

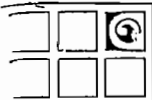
Drilling Method: HSA Rig Type: MOBILE B-59 Sampling Method: SPLIT SPOON

NJDEP Permit #: _____ Notes: _____

Key: ☒ Concrete ☒ Bentonite ☒ Grout ☒ Sand/Gravel Pack ☐ Well Screen ☐



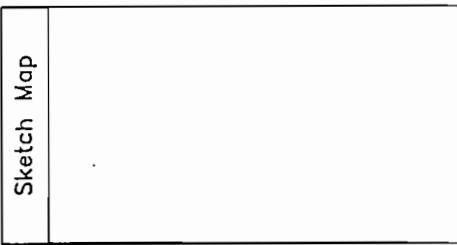
Depth (feet)	Well Construc- tion	Sample No.	Blows/ 6 in.	FID or PID Rdg.	Soils/Lithology	Comments
0						
1						
2						
3						
4						
5			11/4	30	BROWN CLAYEY SAND, SOME GRAVEL,	
6			7/9		SOME BLACK SAND. DRY	
7						
8						
9						
10			5/5	15	BLACK SAND, WET, FINE GRAINED,	
11			8/4		FAIRLY WELL SORTED.	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						



GROUNDWATER
TECHNOLOGY, INC.

Well I.D.: SB-7

Page 1 of 1



Project: BROOKLYN UNION GAS
Location: 287 MADGETH AVE., BROOKLYN, N.Y.
Project No.: 01113-0002 Date: 6/19/94
F.O.C. Elev.: N/A Well Depth: N/A
Explor. Depth: 12' Hole Dia.: 6"
Casing - Dia.: N/A Length: N/A Type: N/A
Screen - Dia.: N/A Length: N/A Slot Size: N/A
Drilling Co.: ADT Driller: JIM SEIDEL Logged by: CHRIS BONA
Drilling Method: HSA Rig Type: MOBILE B-59 Sampling Method: SPLIT SPOON
NJDEP Permit #: _____ Notes: _____
Key: ☒ Concrete ☒ Bentonite ☒ Grout ☒ Sand/Gravel Pack ☒ Well Screen ☐

Depth (feet)	Well Construc- tion	Sample No.	Blows/ 6 in.	FID or D10 Rdg.	Soils/Lithology	Comments
0						
1						
2						
3						
4						
5			11/17	12	BLACK SAND, DRY, POORLY SORTED, SOME GRAVEL.	
6			REFUSAL			
7						
8						
9						
10			3/3	3	SAME AS ABOVE, WET.	
11			4/3			
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

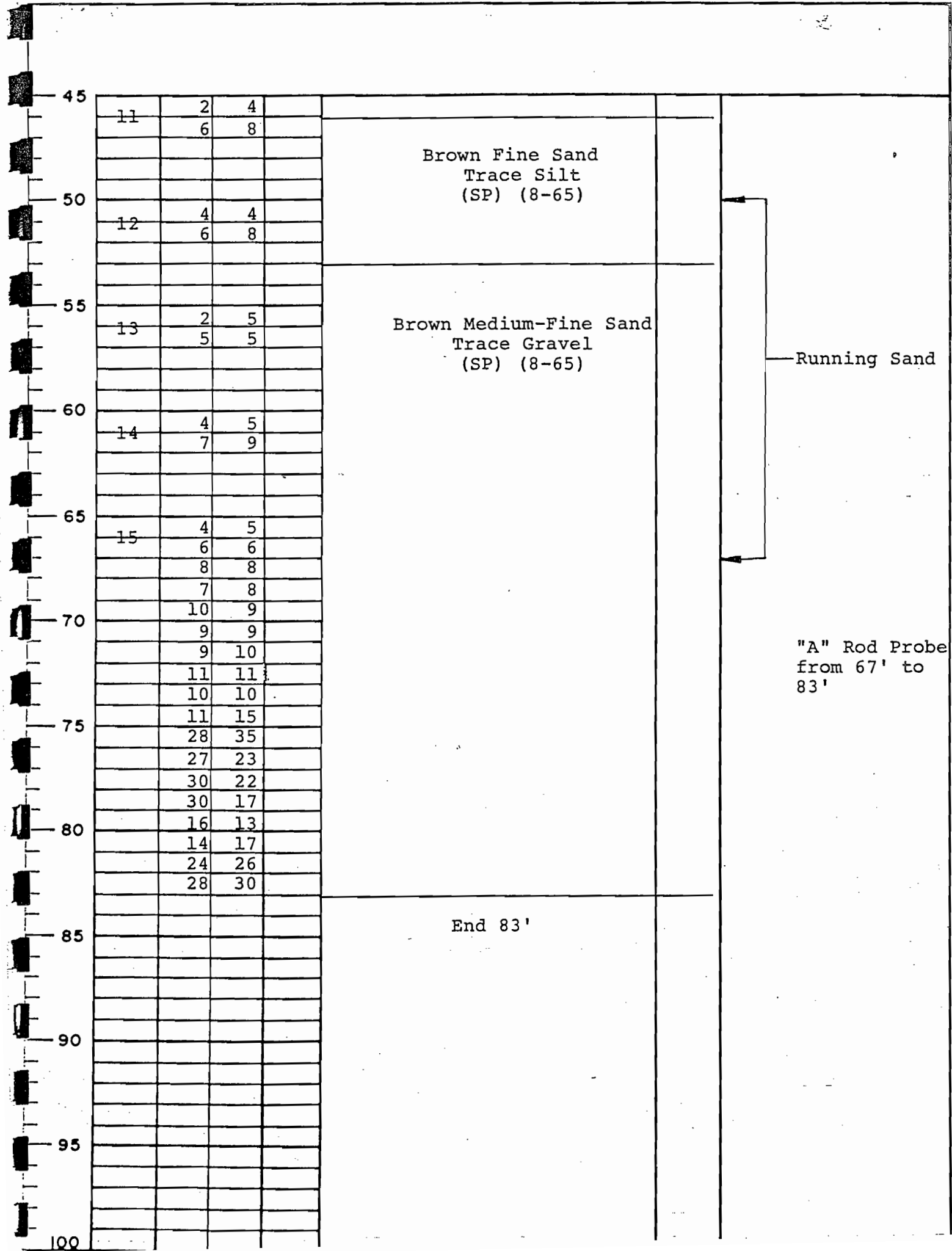
SOIL MECHANICS DRILLING CORP.

SUBSOIL INVESTIGATIONS

3770 MERRICK ROAD • SEAFORD, L. I., NEW YORK 11783

JOB LOCATION: <u>Greenpoint</u>		BORING # <u>1</u>	GROUND WATER OBSERVATION	
DATE: <u>5-24-94</u>			DATE	TIME
DRILLER:				DEPTH
INSPECTOR:				
ENGINEER:		SURFACE ELEVATION:		
TYPE RIG:				

DEPTH BELOW SURFACE	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER		CASING BLOWS PER FT.	DESCRIPTION	SYMBOL	REMARKS
		0-6	6-12				
0			4		Blacktop		
	1	12	10		Sand, Silt, Gravel, Brick, Wood Miscellaneous (Fill) (11-65)		
	2	11	11				
		10	12				
5	3	10	9				
		1	5				
10	4	1	1				
		2	6				
					Brown Peat (Pt) (11-65)		
15	5	1	2				
		2	1				
					Light Gray Silty Clay Trace Roots (CL) (9-65)		
20	6	1	1				
		2	2				
					Gray Brown Clay (CL) (9-65)		
25	7	3	1				
		1	2				
					Gray Fine Sand Trace Silt (SP) (8-65)		
30	8	2	2				
		3	4				
					Gray Fine Sand Trace Silt (SP) (8-65)		
35	9	P	2				
		2	3				
					Gray Fine Sand Trace Silt (SP) (8-65)		
40	10	1	2				
		3	3				



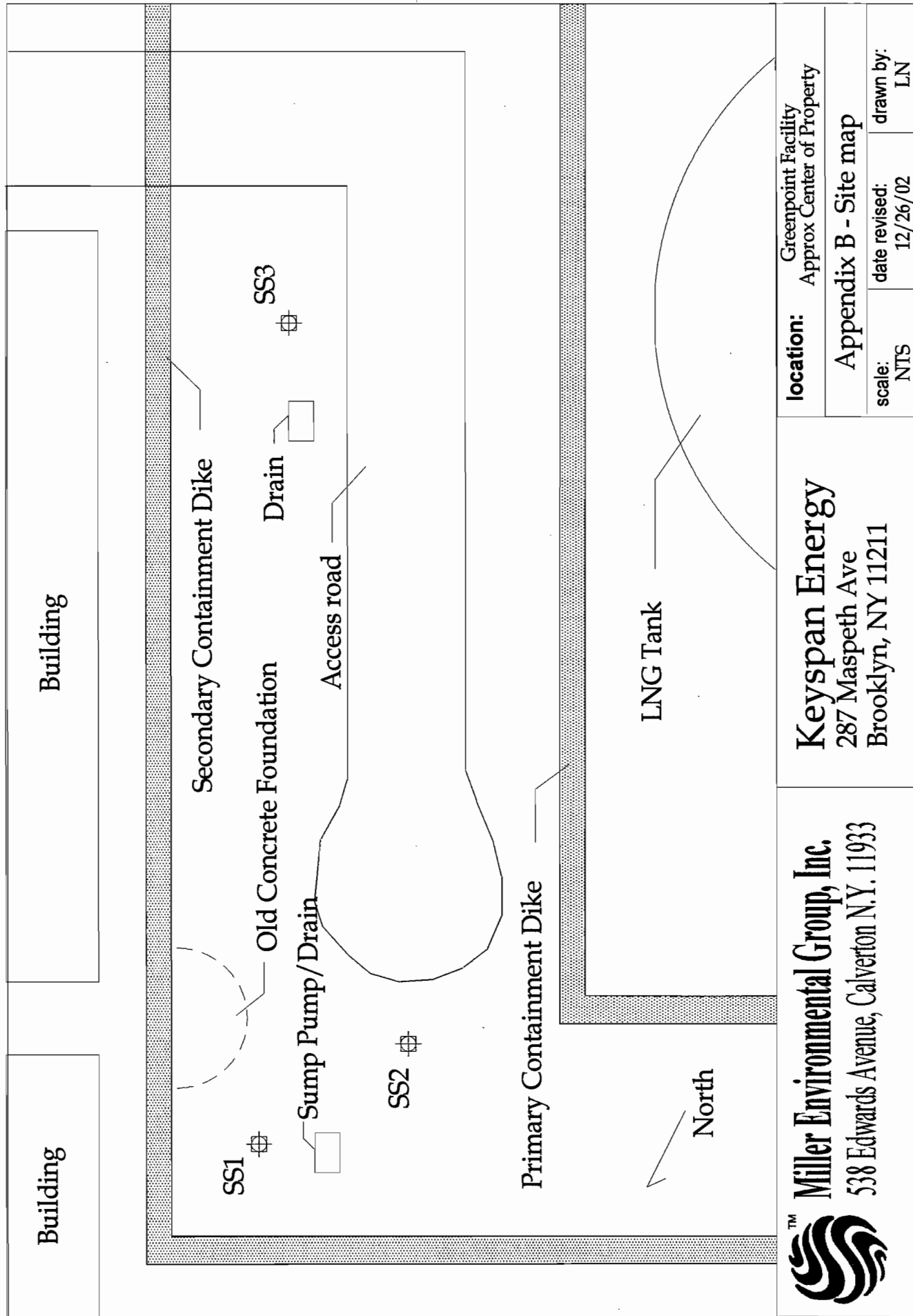
Brown Fine Sand
Trace Silt
(SP) (8-65)

Brown Medium-Fine Sand
Trace Gravel
(SP) (8-65)

Running Sand

"A" Rod Probe
from 67' to
83'

End 83'

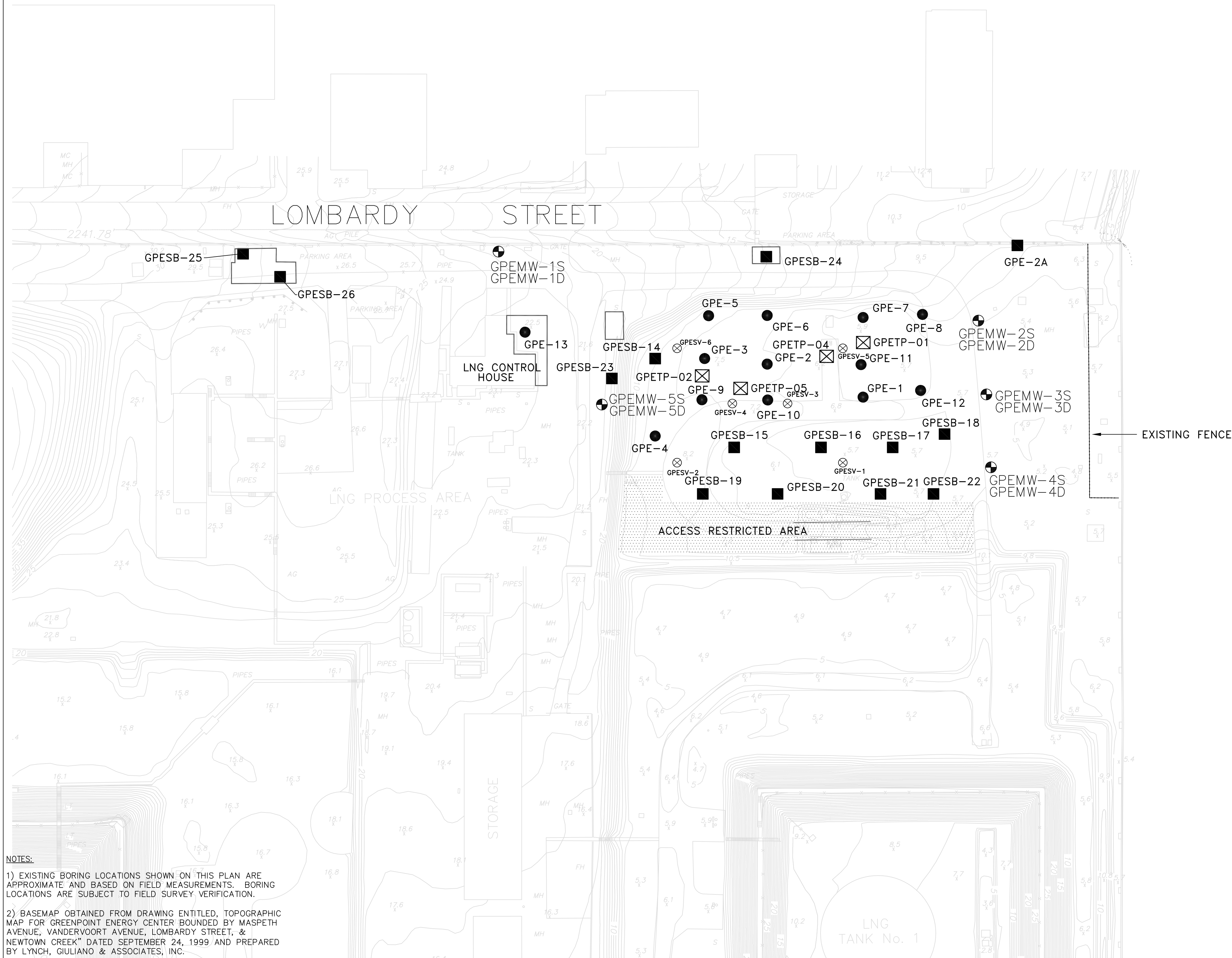




Keyspan Energy
Greenpoint Gas Holder Facility
287 Maspeth Avenue
Brooklyn, NY
Attn: Bob Wilson

**Greenpoint Gas Holder Facility
Soil Contaminant Identification
Subsurface Investigation Boring Log**

SS1	Soil Description	PID (ppm)
0'-0.5'	coal tar substance mixed with dark brown fill material	45
0.5'-1.5'	black soils with large chunks of coal tar and coal tar odor	48
1.5'-2'	dark brown soils with large rocks and cobbles	78
2'-3'	brown soils with pebbles	25
3'-4'	brown soils with mixed pebbles	18
4'-5'	brown soils with few pwbbles	14
5'-6'	brown soils with few pwbbles	7
6'-7'	brown soils with few pwbbles	14
7'-8'	brown soils with few pwbbles	2
8'-9'	brown soils with large pebbles	0
10'-12'	brown soils with pebbles	0
12'-13'	brown soils with pebbles, rejection at 13' large rock slab encountered drilling halted at 13 feet	0
SS2		
0'-1'	dark brown soils with pebbles mixed through out sample	2
1'-2'	dark brown soils with pebbles mixed through out sample faint coal tar smell	15
2'-3'	dark brown soils with pebbles mixed through out sample	0
3'-4'	dark brown soils with pebbles mixed through out sample	0
4'-5'	dark brown soils with pebbles mixed through out sample	0
5'-6'	dark brown soils with pebbles mixed through out sample	0
6'-7'	dark brown soils with pebbles mixed through out sample	0
7'-8'	dark brown soils with pebbles mixed through out sample	0
8'-9'	dark brown soils with pebbles mixed through out sample	0
9'-10'	dark brown soils with pebbles mixed through out sample water encountered at aproximately 9.5' and sample collected	0
SS3		
0'-.5'	brown soils with small mixed pebbles no evidence of coal tar	2
.5'-1'	brown soils with intermixed black soils and coal tar odor	56
1'-2'	black soils with abundant evidence of coal tar residue	115
2'-3'	black soils with abundant evidence of coal tar residue	213
3'-4'	black soils with abundant evidence of coal tar residue sample collected and drilling operations halted after sample collection	158



CURB	
ROAD	
DRIVE	
BUILDING	
TRAILER	
RAILROAD	
WALL	
FENCE	
FENCE ON WALL	
GUARDRAIL	
SIDEWALK	
CONC. PAD	
TREELINE	
SHRUBLINE	
SINGLE TREE	
SINGLE SHRUB	
BRUSH LINE	
UTILITY POLE	
UTILITY POLE W/LIGHT	
ANCHOR GUY	
TRAFFIC SIGNAL	
TRAFFIC CONTROL BOX	
MANHOLE	
FIRE HYDRANT	
VALVE	
METAL COVER	
LAMP POST	
POST	
SIGN	
CATCH BASIN	
FLAGPOLE	
LIGHT POLE	
ACCESS RESTRICTED AREA DUE TO THE PRESENCE OF EXISTING SITE UTILITIES	
PHASE I SOIL BORING	 GPE-8
PHASE II SOIL BORING	 GPESB-2
MONITORING WELL	 GPBMW-
TEST PIT	 GPETP-1
SOIL VAPOR SAMPLE LOCATION	 GPESV-2

[illegible]

The following terminology and descriptions were used to describe the visual and olfactory observations made during the field investigation, as well as to describe the nature of the observed materials:

- **Nonaqueous phase liquid (NAPL):** NAPL is a liquid that does not readily dissolve in water and can exist as a separate fluid phase. Tar and oil released in a soil/water environment will behave as a NAPL. NAPLs are subdivided into two types, those that are lighter than water (light nonaqueous phase liquid or LNAPL) and those with a density greater than water (dense nonaqueous phase liquid or DNAPL).
- **Sheen:** Iridescent petroleum-like sheen. Not to be used to describe a “bacterial sheen” which can be distinguished by its tendency to break up on the water surface at angles whereas petroleum sheen will be continuous and will not break up.
- **Stained:** Used with color (i.e., black or brown stained) to indicate that the soil matrix is stained a color other than the natural (unimpacted) color of the soil.
- **Coated:** Soil grains are coated with tar/free product – there is not sufficient free-phase material present to saturate the pore spaces.
- **Blebs:** Observed discrete sphericals of tar/free product – but for the most part the soil matrix was not visibly contaminated or saturated. Typically this is residual product.
- **Saturated:** The entirety of the pore space for a sample is saturated with the tar/free product. Depending on viscosity, tar/free-phase saturated materials may freely drain from a soil sample.
- **Oil:** Used to characterize free and/or residual product that exhibits a distinct fuel oil or diesel fuel like odor; distinctly different from MGP-related odors/impacts.
- **Tar:** Used to describe free and/or residual product that exhibits a distinct “coal tar” type odor (e.g., naphthalene-like odor). Colors of product can be brown, black, reddish-brown, or gold.
- **Solid Tar:** Used to describe product that is solid or semi-solid phase. The magnitude of the observed solid tar should be described (e.g., discrete granules or a solid layer).
- **Purifier Material:** Purifier material is commonly brown/rust or blue/green wood chips or granular material. It is typically associated with a distinctive sulfur-like odor. Other colors may be present.
- **Odor:** If an odor was present, it was described based on its intensity and characteristics. Odor intensity was described using terms such as strong, moderate and faint or slight. Descriptive terms such as “tar-like”, “naphthalene-like”, “fuel-like” were used that provide a qualitative description (opinion) as to the possible source of the odor.

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Paulus, Sokolowski & Sartor		BORING LOG				BOREHOLE NUMBER - GPE1							
PROJECT NUMBER: 2522.033.004		WEATHER: Partly cloudy 45				TOTAL DEPTH: 50'							
PROJECT NAME: Green Point Energy Center LNG Facility		GROUND SURFACE ELEVATION: 00'				DATE BEGUN: 2/27/04							
LOCATION: Green Point, NY		DATE COMPLETED: 3/12/04											
DRILLING CO: Aquifer Drilling & Testing													
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig													
DRILLER / HELPER: Michael Smith													
ENVIRONMENTAL SCIENTIST: JMS													
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0			0	0		Dark gray/black coarse to fine sand, with some coarse to fine gravel and cobbles, moist, medium dense	SP		Heavily coated with MGP like product				
	GPE1 (1.5 - 2)								MGP like coating on soil				
4			0	0		Orange yellow coarse to fine sand, and coarse to fine gravel, wet, medium dense	SP		No physical/visual evidence of impacts				
		48	0.1	0		Brown, dark gray coarse to fine sand, with some clayey silt and some coarse to fine sand, wet, loose, fill with plastic, cinders, brick	SP		Slight fuel oil like odor, coating on soil				
8	GPE1 (7-8)		0.2	0		Brown green peat, wet, loose	PT		Hydrogen sulfide like odor				
		24	0	0		Brown green peat, wet, loose	PT		No physical/visual evidence of impacts				
12													
16			0	0		Gray organic silt with some fine sand and little coarse to fine gravels, wet, soft, cohesive, low plasticity soil	OL		Hydrogen sulfide like odor				
		44	0	0		Tan brown medium to fine sand, with trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
20			0	0		Tan brown coarse to fine sand, with some coarse to fine gravels and little silt, wet, medium dense	SP		No physical/visual evidence of impacts				
24			0	0		Tan brown medium to fine sand with trace fine gravel and trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
		36	0	0		Orange brown coarse to fine gravels, with some clayey silt and little coarse sand, wet, medium dense	GM						
28													
32			0	0		Orange brown coarse to fine gravel, with some coarse to fine sand, and little clayey silt, wet, medium dense	GM		No physical/visual evidence of impacts				
36			0	0		Tan brown coarse to fine sand with some fine gravel and trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
40			0	0		Tan brown medium to fine sand with little fine gravel, wet, medium dense	SP		No physical/visual evidence of impacts				
		42	0	0									
44						Tan brown coarse to fine sand, with some fine gravel and trace silt, wet, very dense	SP		No physical/visual evidence of impacts				
48	GPE1 (48-50)	60	0	0		Gray/dark gray clayey silt with little to fine sand, wet, very stiff, cohesive high plasticity soils	MH						

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Paulus, Sokolowski & Sartor	BORING LOG	BOREHOLE NUMBER - GPE2
PROJECT NUMBER: 2522.033.024		WEATHER: Overcast 60
PROJECT NAME: Green Point Energy Center LNG Facility		TOTAL DEPTH: 50'
LOCATION: Green Point, NY		GROUND SURFACE ELEVATION: 00'
DRILLING CO: Aquifer Drilling & Testing		DATE BEGUN: 3/2/04
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig		DATE COMPLETED: 3/3/04
DRILLER / HELPER: Michael Smith		
ENVIRONMENTAL SCIENTIST: JMS		

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC	STAINING
0		54	0	0		Crushed stone covering, orange yellow coarse to fine sand and fine gravel, moist, medium dense	SP		No physical/visual evidence of impacts				
	GPE2 (1.5-2)												
4		12	0	0		Gray brown fine sand, with little clayey silt, wet, medium dense	SP		No physical/visual evidence of impacts				
		60	0	0		Dark gray/brown organic silt with little organic fibers, wet, medium stiff, cohesive soils, low plasticity	OL		Hydrogen Sulfide like odor				
8		60	0	0		Tan gray silt, clayey silt, stiff, wet, cohesive soils, low plasticity, soil mottling, brown silt lenses observed in core form 8' to 10'	ML		No physical/visual evidence of impacts				
	GPE2 (8-9)												
12		60	0	0		Tan gray silt, clayey silt, and stiff, wet, cohesive soils, low plasticity, desiccated soils, silt (tan, brown, to gray) lenses	ML		No physical/visual evidence of impacts				
16		36	0	0		Tan gray silt, clayey silt, wet, stiff, cohesive soils, low plasticity, and desiccated soils, sporadic coarse sand lenses at 18' to 19'	ML		No physical/visual evidence of impacts				
20		36	0	0		Tan brown coarse to fine sand, with trace silt, wet, medium dense to dense	SP		No physical/visual evidence of impacts				
		12	0	0		Tan brown coarse to fine sand with little coarse to fine gravels and trace silt, wet, dense	SP		No physical/visual evidence of impacts				
24													
28		36	0	0		Tan brown coarse to fine sand, with little coarse to fine gravel, wet, dense	SP		No physical/visual evidence of impacts				
32		50	0	0		Tan brown coarse to fine sand, with little coarse to fine gravels and trace silt, wet, dense	SP		No physical/visual evidence of impacts				
36		54	0	0		Tan brown medium to fine sand, with little coarse sands and gravels, wet, dense, coarse sands (6" thick layers at 38.5' to 39' and 36' to 36.5')	SP		No physical/visual evidence of impacts				
40		44	0	0		Tan brown coarse to fine sand with little coarse gravel, wet, dense, 6" thick fine sand layer form 42.5' to 43'	SP		No physical/visual evidence of impacts				
44													
48		54	0	0		Tan brown coarse to fine sand with little coarse to fine gravel and trace silt, wet, dense, sporadic fine sand layers	SP		No physical/visual evidence of impacts				
	GPE2 (47-49)												

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PROJECT NUMBER: 2522.033.024 PROJECT NAME: Green Point Energy Center LNG Facility LOCATION: Green Point, NY DRILLING CO: Aquifer Drilling & Testing DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig DRILLER / HELPER: Michael Smith ENVIRONMENTAL SCIENTIST: JMS	WEATHER: Partly cloudy, rain, 60 TOTAL DEPTH: 50' GROUND SURFACE ELEVATION: 00' DATE BEGUN: 3/1/04 DATE COMPLETED: 3/2/04
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DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0		30	0	0		Crushed stone	SP		Moderate to slight fuel like odor, coated with MGP like material				
	GPE3 (1.5-2)	30	0	0		Dark gray coarse to fine sand and fine gravel, very moist, medium dense			Moderate to slight fuel like odor				
4						Orange yellow coarse to fine sand and coarse to fine gravel with little silt, very moist, medium dense							
	GPE3 (4-4.5)	30	0	0		Tan yellow coarse to fine sand, with some coarse to fine gravels, wet, dense	SP		No physical/visual evidence of impacts				
8													
		24	0	0		Tan yellow coarse to fine sand, with some coarse to fine gravels, wet, dense			No physical/visual evidence of impacts				
12													
		48	0	0		Tan yellow coarse to fine sand, with some coarse to fine gravels, wet, dense			No physical/visual evidence of impacts				
16													
		36	0	0		Tan yellow coarse to fine sand, with some coarse to fine gravel, wet, dense			No physical/visual evidence of impacts				
20													
		40	0	0		Tan gray medium to fine sand, wet, medium dense, silt lens (less than 1" thick) in tip of macro core sleeve, stratified, horizontal silt lens			No physical/visual evidence of impacts				
24													
		56	0	0		Tan gray medium to fine sand, wet, medium dense			No physical/visual evidence of impacts				
32													
		24	0	0		Tan brown fine sand with trace silt, wet, medium dense, sporadic silt lenses (1/4" thick) through macro core sample			No physical/visual evidence of impacts				
36													
		54	0	0		Tan brown fine sand with trace silt, wet, medium dense, sporadic silt lenses, (1/8" to 1/4" thick) through macro core sample			No physical/visual evidence of impacts				
40													
		46	0	0		Tan brown medium to fine sand with little coarse sand and trace silt, wet, medium dense, coarse sand layer (6" thickness) from 44' to 44.5', fine sand in tip of macro core sleeve			No physical/visual evidence of impacts				
44													
		48	0	0		Tan brown medium to fine sand, with little coarse sand, wet, medium dense, coarse sand layers (6" thickness) from 45' to 45.5' and 49' to 49.5'			No physical/visual evidence of impacts				
48													
	GPE3 (48-49)	12	0	0									

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Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPE4	
PROJECT NUMBER: 2522.033.024			WEATHER: Overcast 55		
PROJECT NAME: Green Point Energy Center LNG Facility			TOTAL DEPTH: 40'		
LOCATION: Green Point, NY			GROUND SURFACE ELEVATION: 00'		
DRILLING CO: Aquifer Drilling & Testing			DATE BEGUN: 3/5/04		
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig			DATE COMPLETED: 3/5/04		
DRILLER / HELPER: Jiri Kamenicek					
ENVIRONMENTAL SCIENTIST: JMS					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0						4" Crushed stone (3/4" clean)	SP		No physical/visual evidence of impacts				
						Orange yellow coarse to fine sand with some coarse gravel, moist, medium dense							
						Dark gray brown fine sand, with trace to little silt, moist, medium dense	SP		No physical/visual evidence of impacts				
						Orange yellow coarse to fine sand, with little coarse gravel, very moist, medium dense	SP		No physical/visual evidence of impacts				
						Dark gray coarse to fine sand with coarse to fine sand and little silt, wet, medium dense	SP		Strong fuel oil like odor, no visible impacts of MGP like material				
						Tan brown medium to fine sand, with some fine to coarse gravel and trace silt, wet, dense	SP		Strong fuel oil like odor, no visible impacts of MGP like material				
						Tan brown coarse to fine sand, with little fine gravel and trace silt, wet, dense	SP		Strong fuel oil like odor, no visible impacts of MGP like material				
						Dark gray to black coarse to fine sand with little to some coarse to fine gravel and trace silt, wet, medium dense	SP		Strong fuel oil like odor, MGP like material coating on soils				
						Tan brown fine sand with trace silt, wet, medium dense	SP		Strong fuel oil like odor, no visible impacts of MGP like material				
						Tan brown coarse to fine sand with little to trace silt and trace fine gravel, wet, medium dense	SP		Strong fuel oil like odor, no visible impacts of MGP like material				
						Tan brown coarse to fine sand with some coarse to fine gravel and trace silt, wet, dense	SP		Slight fuel oil like odor, no visible impacts of MGP like material				
						Red brown coarse fine sand with some coarse to fine gravel and trace silt, wet, dense	SP		No physical/visual evidence of impacts				
						Tan brown coarse to fine sand with some coarse to fine gravel and cobbles, wet, dense, siltstone cobble at 57.5' to 38'	SP		No physical/visual evidence of impacts				

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Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPE5	
PROJECT NUMBER: 2522.033.024			WEATHER: Morning rain/snow mix, 35		
PROJECT NAME: Green Point Energy Center LNG Facility			TOTAL DEPTH: 50'		
LOCATION: Green Point, NY			GROUND SURFACE ELEVATION: 00'		
DRILLING CO: Aquifer Drilling & Testing			DATE BEGUN: 3/8/04		
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig			DATE COMPLETED: 3/8/04		
DRILLER / HELPER: Jiri Kamenicek					
ENVIRONMENTAL SCIENTIST: JMS					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0		30	0	0		2" Crushed stone	SP		No physical/visual evidence of impacts Solid tar spoil (cobble size)				
	GPE5 (1.5-2)	36	0	0		Tan brown medium to fine sand with some coarse gravel and trace to little silt, moist, medium dense	SP		No physical/visual evidence of impacts				
4		24	0	0		Tan brown medium to fine sand, with some coarse gravel and cobbles, trace silt, moist, medium dense	SP		No physical/visual evidence of impacts				
						Gray brown medium to fine sand with some coarse gravel and little silt, moist, medium dense, fill	SP		No physical/visual evidence of impacts				
8													
	GPE5 (9-10)	36	0	0		Tan brown coarse to fine sand with some coarse to fine gravel with trace silt, very moist, medium dense	SP		No physical/visual evidence of impacts				
12													
		42	0	0		Tan brown coarse to fine sand, with some coarse to fine sand with some coarse to fine gravel very moist, medium dense	SP		No physical/visual evidence of impacts				
16													
		60	0	0		Tan brown coarse to fine sand with some coarse to fine gravel, very moist, medium dense to dense	SP		No physical/visual evidence of impacts				
20													
						Transition from gravelly soils to sands at 23.5'			No physical/visual evidence of impacts				
24		42	0	0		Tan gray medium to fine sand, very moist, medium dense	SP		No physical/visual evidence of impacts				
						Tan gray medium to fine sand with some coarse to fine sand, very moist, medium dense	SP		No physical/visual evidence of impacts				
28													
		54	0	0		Tan gray medium to fine sand, moist, medium dense	SP		No physical/visual evidence of impacts				
32													
		60	0	0		Tan gray medium to fine sand, moist, medium dense	SP		No physical/visual evidence of impacts				
36													
		60	0	0		Tan gray medium to fine sand, moist to very moist, medium dense	SP		No physical/visual evidence of impacts				
40													
		56	0	0		Tan brown medium to fine sand, with trace coarse sand, very moist, medium dense	SP		No physical/visual evidence of impacts				
44													
	GPE5 (48-49)	7	0	0		Brown fine sand, with trace silt, moist, medium dense	SP		No physical/visual evidence of impacts				

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Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPE6	
PROJECT NUMBER: 2522.033.024			WEATHER: Overcast 40		
PROJECT NAME: Green Point Energy Center LNG Facility			TOTAL DEPTH: 50'		
LOCATION: Green Point, NY			GROUND SURFACE ELEVATION: 00'		
DRILLING CO: Aquifer Drilling & Testing			DATE BEGUN: 3/9/04		
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig			DATE COMPLETED: 3/9/04		
DRILLER / HELPER: Jiri Kamenicek					
ENVIRONMENTAL SCIENTIST: JMS					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN COATING, ETC.	STAINING
0		36	0	0		3" Crushed stone (3/4 clean)	SP		Slight coating of sands with MGP like materials				
	GPE6 (1.5-2)	24	0	0		Dark gray, tan medium to fine sand with some coarse gravel, moist, medium dense	SP						
4		20	0.1	0		Tan brown coarse to fine sand with some gravels and cobbles, very moist, medium dense	SP		No physical/visual evidence of impacts				
			0.1			Dark gray to black coarse to fine sand with little coarse to fine gravel and little silt, wet, medium dense	SP		Strong fuel oil like odor				
			0.1										
8		60	0.2	0		Tan gray clayey silt, wet, stiff, cohesive, high plasticity soil, varved clayey silt deposits, tan and gray silt lenses,	MH		Strong fuel oil like odor				
	GPE6 (11-12)		0.3										
12		6	0.3	0		Tan brown coarse to fine sand with clayey silt, wet, medium dense, non-cohesive, low plasticity soils			Strong fuel oil like odor				
		12	0.3			Tan brown coarse to fine sand, with little fine to coarse gravel and little clayey silt, wet, medium dense	SP		Strong fuel oil like odor				
16	GPE6 (16-17)		0.2										
			0.3										
20		52	0.2	0		Tan brown coarse to fine sand with little coarse to fine gravel, and little clayey silt, wet, medium dense	SP		Strong fuel oil like odor				
			0.2										
			0.1										
24		48	0.1	0		Red brown coarse to fine sand with some clayey silt, and little fine to coarse sand, wet, medium dense	SP		Strong fuel oil like odor				
		48	0.1	0									
			0.3			Tan brown coarse to fine sand with some coarse to fine gravel and trace silt, wet, medium dense to dense	SP		Slight fuel oil like odor and solvent (mint) like odor				
28			0.4										
			0.2										
			0										
		60	0.3	0		Tan brown coarse to fine sand with some to little coarse to fine gravel, wet, dense	SP		Fuel oil like odor				
32			0.2										
			0.1										
			0.2										
36		48	0	0		Tan brown coarse to fine sand with little coarse to fine gravel, wet, dense	SP		Slight fuel oil like odor				
40		54	0	0		Tan brown medium to fine sand, wet, dense	SP		No physical/visual evidence of impacts				
44		36	0	0		Tan brown medium to fine sand with little coarse gravel, and trace silt, wet, dense	SP		No physical/visual evidence of impacts				
48	GPE6 (48-49)	6	0	0		Siltstone cobble	SP		No physical/visual evidence of impacts				

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PROJECT NUMBER: 2522.033.024
 PROJECT NAME: Green Point Energy Center LNG Facility
 LOCATION: Green Point, NY
 DRILLING CO: Aquifer Drilling & Testing
 DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig
 DRILLER / HELPER: Andrea Babel
 ENVIRONMENTAL SCIENTIST: JMS

WEATHER: Overcast 40
 TOTAL DEPTH: 50'
 GROUND SURFACE ELEVATION: 00'
 DATE BEGUN: 3/1/04
 DATE COMPLETED: 3/10/04

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0						3" Crushed stone (3/4 clean)							
	GPE7 (1.5-2)	36	2.7	0		Dark gray/black, coarse to fine sand with little gravel, moist, medium dense	SP		Fuel-like odor, coal tar fragments (6" dia.), Heavy coating				
	GPE7 (2.5-3)	6	19.2	0		Dark gray/black coarse to fine sand with some clayey silt and gravel, very moist, medium dense			Soil saturated with tar-like substance, strong naphthalene odor				
4		24	7.9	0		Dark gray coarse to fine sand with little gravel and cobbles, moist, medium dense			Fuel-like odor, coal tar fragments (6" dia.), Soils coated				
		48	20.9	0		Dark gray/black coarse to fine sand with little coarse to fine gravel, little silt, wet, medium dense to loose Fill cinders, metal shards, brick			Strong fuel-like odor Heavy Coating, Sheen observed on water				
	GPE7 (8-9)		92.8										
			128										
			56.8										
8			61.3										
		24	108	0		Dark gray/black coarse to fine sand with little coarse to fine gravel, little silt, wet, medium dense			Strong fuel odor, heavy coating on soil				
12			189										
			134										
		24	138	0		Brown green peat, wet, soft, cohesive, low plasticity	SP		Hydrogen Sulfide Odor, strong fuel like odor, Soils stained, coated and sheen observed on water				
			120										
16		42	0.1	0		Peat, wet, soft, cohesive, low plasticity			Strong fuel-like odor				
			0.2										
		18											
			0.1	0		Gray coarse to fine sand with some clayey silt and little coarse to fine gravel, wet, medium dense, cohesive, low plasticity	SM		Strong fuel-like odor				
20			0.1			Gray tan coarse to fine sand with some fine to coarse gravel, wet, medium dense, cohesive, low plasticity, Poor recovery as a result of schist cobble/gravel in core barrel			Strong fuel-like odor				
			0.1										
24													
		42	42	0		Orange brown coarse to fine sand with coarse to fine gravel and little clayey silt, wet, dense			Strong fuel-like odor				
28													
		42				Orange brown coarse to fine sand with coarse to fine gravel and little clayey silt, wet, dense			No physical/visual evidence of impacts				
32													
		24	0	0		Tan brown medium to fine sand, wet, medium dense	SP		No physical/visual evidence of impacts				
36													
		36	0	0		Tan brown coarse to fine sand with some coarse to fine gravel and trace silt, wet, dense			No physical/visual evidence of impacts				
			0.1										
			0.1										

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PROJECT NUMBER: 2522.033.024 PROJECT NAME: Green Point Energy Center LNG Facility LOCATION: Green Point, NY DRILLING CO: Aquifer Drilling & Testing DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig DRILLER / HELPER: Andrea Babel ENVIRONMENTAL SCIENTIST: JMS	WEATHER: Overcast 40 TOTAL DEPTH: 50' GROUND SURFACE ELEVATION: 00' DATE BEGUN: 3/1/04 DATE COMPLETED: 3/10/04
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DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
40		42	0	0		Tan brown coarse to fine sand with some coarse to fine gravel and little silt, wet, dense			No physical/visual evidence of impacts				
44		12	0	0		Tan brown medium to fine sand with little silt, wet, dense			No physical/visual evidence of impacts				
		48				Gray brown medium to fine sand with little clayey silt and little coarse gravel, wet, dense			No physical/visual evidence of impacts				
48	GPE7 (48-49)	36	0	0		Gray silty clay with little coarse to fine gravel and trace coarse to fine sand, wet, hard			No physical/visual evidence of impacts				

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPE8	
PROJECT NUMBER: 2522.033.024			WEATHER: Rain, high of 50		
PROJECT NAME: Green Point Energy Center LNG Facility			TOTAL DEPTH: 50'		
LOCATION: Green Point, NY			GROUND SURFACE ELEVATION: 00'		
DRILLING CO: Aquifer Drilling & Testing			DATE BEGUN: 3/4/04		
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig			DATE COMPLETED: 3/4/04		
DRILLER / HELPER: Michael Smith					
ENVIRONMENTAL SCIENTIST: JMS					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC	STAINING
0						0-4" Crushed stone 3/4" clean	SP		Slight coating of MGP like product				
	GPE8 (1.5-2)	24	0	0		Dark gray coarse to fine sand with some coarse to fine gravel, moist, medium dense	SP		No physical/visual evidence of impacts				
		36	0	0		Orange yellow coarse to fine sand and coarse to fine gravel, moist, medium dense	SP						
4													
		36	0.2	0		Dark gray medium to fine sand, with some clayey silt and fine gravel, wet, medium dense, fill materials of plastic, tile, and glass	SP		Slight fuel oil like odor				
			0.2										
			0.4										
8			0.2										
		26	0.4	0		Dark gray to black medium to fine sand with some silt and some coarse to fine gravel, wet, medium dense, fill materials of plastic, glass, and timbers	SP		Slight fuel oil like odor				
			0.2										
12			0.2										
		24	0.1	0		Dark gray to black medium to fine sand, with some silt and some coarse gravel, wet, medium dense, fill materials of glass, concrete, and timbers	SP		Slight fuel oil like odor				
			0.2										
16													
		12	0.2	0		Gray coarse to fine sand with some clayey silt and trace fine gravel, wet, medium dense	SP		Slight fuel oil like odor				
20		24	0	0		Gray tan silt with little fine gravel and trace silt, wet, stiff, cohesive, low plasticity soils	ML		No physical/visual evidence of impacts				
	GPE8 (22-23)	12	0	0			ML						
24													
		60	0	0		Gray tan silt, wet, stiff, cohesive, low plasticity soils	ML		No physical/visual evidence of impacts				
28													
		6	0	0		Tan brown coarse to fine sand with little fine gravel and trace silt, wet, medium dense to dense	ML		No physical/visual evidence of impacts				
		42	0	0		Tan brown coarse to fine sand with some coarse to fine gravel and trace silt, wet, dense, silt lens @ 34-34.5'	SP		No physical/visual evidence of impacts				
32													
		6	0	0		Tan gray silt with coarse to fine gravel, wet, stiff, 2" thick silt lens	SP		No physical/visual evidence of impacts				
36		34	0	0		Tan brown coarse to fine sand, with some coarse to fine gravel and trace silt, wet, dense	SP		No physical/visual evidence of impacts				

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Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPE8	
PROJECT NUMBER: 2522.033.024			WEATHER: Rain, high of 50		
PROJECT NAME: Green Point Energy Center LNG Facility			TOTAL DEPTH: 50'		
LOCATION: Green Point, NY			GROUND SURFACE ELEVATION: 00'		
DRILLING CO: Aquifer Drilling & Testing			DATE BEGUN: 3//4/04		
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig			DATE COMPLETED: 3/4/04		
DRILLER / HELPER: Michael Smith					
ENVIRONMENTAL SCIENTIST: JMS					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS		
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.
40		38	0	0		Tan brown coarse to fine sand with some coarse to fine gravel, wet, dense	SP		No physical/visual evidence of impacts			
44		36	0	0		Tan brown coarse to fine sand with some coarse to fine gravel, wet, dense	SP		No physical/visual evidence of impacts			
48	GPE8 (48-49)											

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Paulus, Sokolowski & Sartor					BORING LOG			BOREHOLE NUMBER - GPE9					
PROJECT NUMBER: 2522.033.024					WEATHER: Snow, 35								
PROJECT NAME: Green Point Energy Center LNG Facility					TOTAL DEPTH: 50'								
LOCATION: Green Point, NY					GROUND SURFACE ELEVATION: 00'								
DRILLING CO: Aquifer Drilling & Testing					DATE BEGUN: 3/16/04								
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig					DATE COMPLETED: 3/16/04								
DRILLER / HELPER: Michael Smith													
ENVIRONMENTAL SCIENTIST: JMS													
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0	GPE9 (1.5-2)	36	0.5	0		0-4" Crushed stone 3/4" clean	SP	○	Heavy thick coating of MGP like material, strong naphthalene like odor				
			56.2			Dark gray medium to fine sand, with little fine gravel, trace wood fibers (timbers), moist, medium dense		○					
			62.7						○				
4		30	17.2	0		Orange yellow coarse to fine sand and coarse to fine gravel with little to trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
			26.7					○					
8		24	0	0		Reddish brown medium to fine sand, with little silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
		42	0	0		Tan brown medium to fine sand with trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
12	GPE9 (12-13)							○					
		36	0	0		Tan brown coarse to fine sand, with little coarse to fine gravel and trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
		24	0	0		Tan brown medium to fine sand, with little coarse to fine gravel and trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
16		48	0	0		Tan brown medium to fine sand, with little sand and little coarse to fine gravel, trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
20								○					
24		60	0	0		Tan brown coarse to fine sand, with little coarse to fine gravel and trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
28		40	0	0		Tan brown medium to fine sand, with little coarse to fine gravel and trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
32								○					
36		54	0	0		Tan brown fine sand, with trace silt, wet, medium dense to dense	SP	○	No physical/visual evidence of impacts				
40		56	0	0		Tan brown fine sand, with trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
44		60	0	0		Tan brown fine sand, with trace silt, wet, medium dense	SP	○	No physical/visual evidence of impacts				
48	GPE9 (48-49)							○					

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PROJECT NUMBER: 2522.033.024 PROJECT NAME: Green Point Energy Center LNG Facility LOCATION: Green Point, NY DRILLING CO: Aquifer Drilling & Testing DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig DRILLER / HELPER: Michael Smith ENVIRONMENTAL SCIENTIST: JMS	WEATHER: Overcast, windy 45 TOTAL DEPTH: 50' GROUND SURFACE ELEVATION: 00' DATE BEGUN: 3/15/04 DATE COMPLETED: 3/15/04
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DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0						Crushed stone 3/4" clean			Soil coated with MGP like product				
	GPE10 (1.5-2)	32	0	0		Dark gray to black coarse to fine sand, with some coarse to fine gravels and cobbles, moist, medium dense	SP		No physical/visual evidence of impacts				
		12	0	0		Orange yellow coarse to fine sand with some fine to coarse gravel and cobbles, moist, medium dense	SP		No physical/visual evidence of impacts				
4		24	0	0		Tan yellow fine sand with little silt, wet, medium dense	ML		No physical/visual evidence of impacts				
	GPE10 (7-8)	60	0	0		Tan brown silt, wet, stiff, varved gray clay lenses	ML		No physical/visual evidence of impacts				
8													
12													
		48	0	0		Tan brown coarse to fine sand with little silt and little fine to coarse gravel, wet, medium dense	SP		No physical/visual evidence of impacts				
16		36	0	0		Tan brown coarse to fine sand with some coarse to fine gravel and little silt, wet, medium dense	SP		No physical/visual evidence of impacts				
20		30	0	0		Tan brown coarse to fine sand with some coarse to fine gravel and little silt, wet, medium dense	SP		No physical/visual evidence of impacts				
24		26	0	0		Tan brown coarse to fine sand with some coarse to fine gravel and little silt, wet, medium dense	SP		No physical/visual evidence of impacts				
28		48	0	0		Tan brown medium to fine sand with some coarse to fine gravel and trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
32		48	0	0		Tan brown medium to fine sand, with trace fine gravel, wet, medium dense	SP		No physical/visual evidence of impacts				
36		18	0	0		Tan brown fine sand, with some coarse to fine gravel and trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
40		30	0	0		Tan brown medium to fine sand, with little coarse to fine gravel and trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
44		48	0	0		Tan brown medium to fine sand, with trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
48	GPE10 (48-49)												

Paulus, Sokolowski & Sartor					BORING LOG			BOREHOLE NUMBER - GPE11					
PROJECT NUMBER: 2522.033.024					WEATHER: Sunny, 55								
PROJECT NAME: Green Point Energy Center LNG Facility					TOTAL DEPTH: 50'								
LOCATION: Green Point, NY					GROUND SURFACE ELEVATION: 00'								
DRILLING CO: Aquifer Drilling & Testing					DATE BEGUN: 3/3/04								
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig					DATE COMPLETED: 3/3/04								
DRILLER / HELPER: Michael Smith													
ENVIRONMENTAL SCIENTIST: JMS													
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0		24	0	0		Crushed stone 3/4" clean	SP		Mild to slight fuel like odor, soil coated with MGP like product, sporadic timber chips				
	GPE11 (1.5-2)	12	0	0		Orange yellow coarse to fine sand and fine gravel, moist, medium dense	SP		No physical/visual evidence of impacts				
4						Dark green coarse to fine sand, and some fine gravel, moist, medium dense							
						Orange yellow coarse to fine sand and coarse to fine gravel, wet, medium dense							
8		48	0	0		Dark gray brown organic silt with little organic fibers, wet, medium stiff	OL		MGP organic silt and peat, Hydrogen Sulfide odor in peat				
12	GPE11 (9-9.5)	24	0	0		Tan gray medium to fine sand, with trace silt, wet, medium dense	PT		No physical/visual evidence of impacts				
16		48	0.1	0		Dark gray brown medium to fine sand, with little gravel and little silt, wet, medium dense	SM		Fuel oil like odor, soil coated with MGP like material				
20	GPE11 (17-18)	12	0.1	0		Dark gray green, tan silt, with trace fine gravel, wet, stiff, cohesive soils, silt tan and green lenses	ML		Fuel oil like odor				
		18	0.1	0		Tan brown medium to fine sand with trace silt, wet, medium dense	SP		Slight fuel oil like odor				
		42	0.1	0		Tan brown medium to fine sand, with trace silt, wet, medium dense	SP		Slight fuel oil like odor				
24													
		36	0.2	0.1		Tan brown medium to fine sand, with trace silt, wet, medium dense	SP		Slight fuel oil like odor				
28			0.2	0.2									
			0.3	0.2									
			0.3	0.1									
32		36	0.2	0		Tan brown medium to fine sand, with little coarse sand, wet, medium dense	SP		No physical/visual evidence of impacts				
			0.5	0.1									
			0.3	0									
			0.2	0									
36		48	0.1	0		Tan brown medium to fine sand, with some coarse to fine gravel, wet, medium dense, coarse to fine gravel bands at a depth of 38' to 38.5' and 39 to 39.5'	SP		Slight fuel oil like odor				
			0.2										
			0.2										
			0										
40		12	0.3	0		Tan brown medium to fine sand, with some coarse to fine gravel, wet, dense	SP		Slight fuel oil like odor				
			0.3										
44													
		40	0	0		Tan brown medium to fine sand, with some coarse to fine gravel, and coarse sand, wet, dense	SP		No physical/visual evidence of impacts				
48	GPE11 (48-49)	6	0	0		Tan gray clayey silt with little fine gravels, wet, stiff to very stiff, cohesive soil, low plasticity, desiccated soils	SP		No physical/visual evidence of impacts				
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Paulus, Sokolowski & Sartor	BORING LOG	BOREHOLE NUMBER - GPE12
PROJECT NUMBER: 2522.033.024		WEATHER: 50
PROJECT NAME: Green Point Energy Center LNG Facility		TOTAL DEPTH: 50'
LOCATION: Green Point, NY		GROUND SURFACE ELEVATION: 00'
DRILLING CO: Aquifer Drilling & Testing		DATE BEGUN: 3/11/04
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig		DATE COMPLETED: 3/11/04
DRILLER / HELPER: Michael Smith		
ENVIRONMENTAL SCIENTIST: JMS		

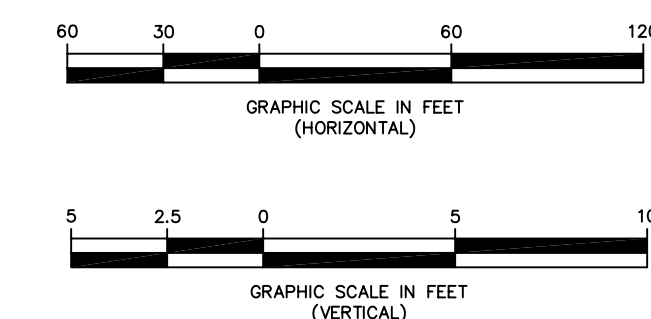
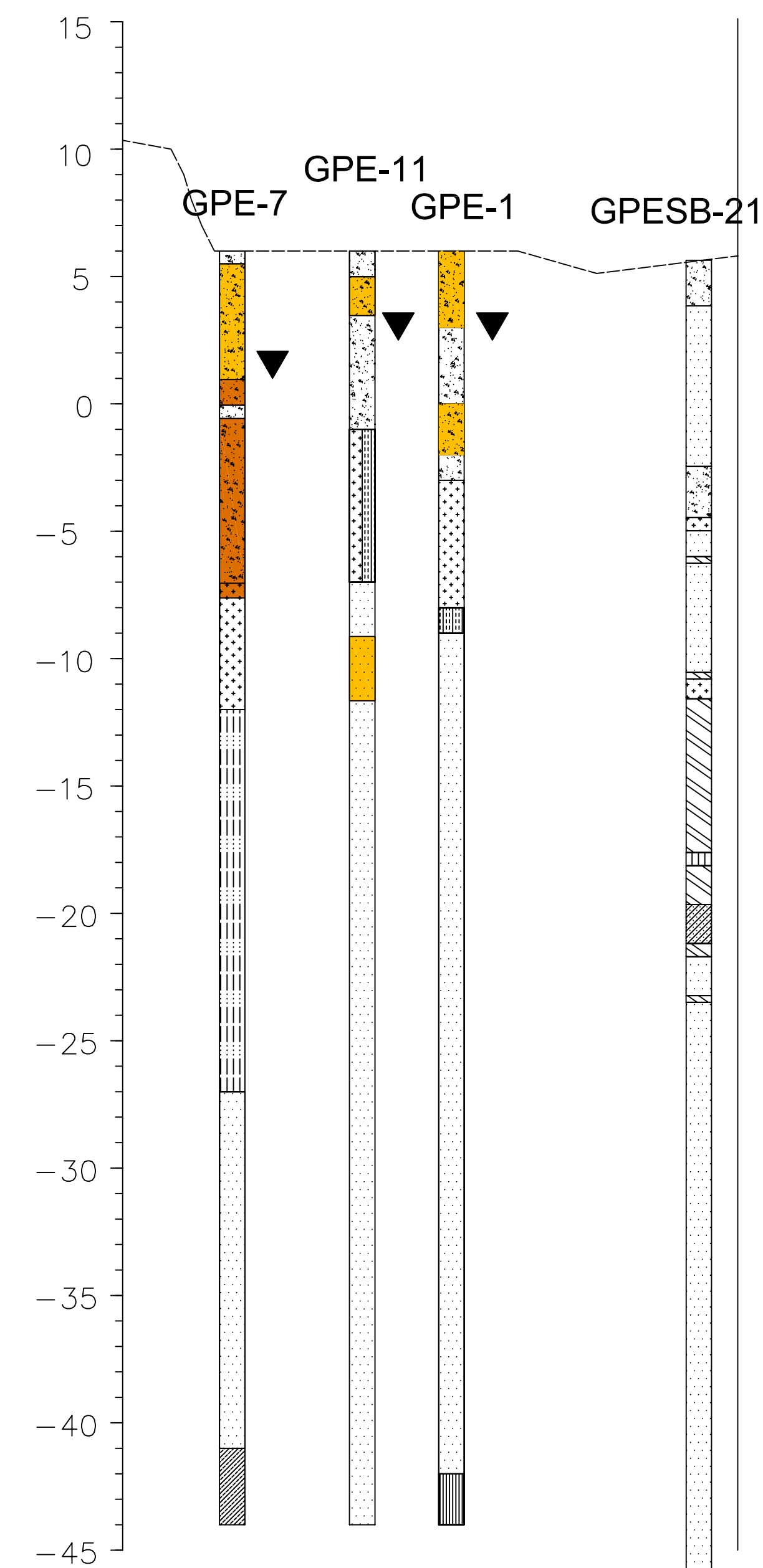
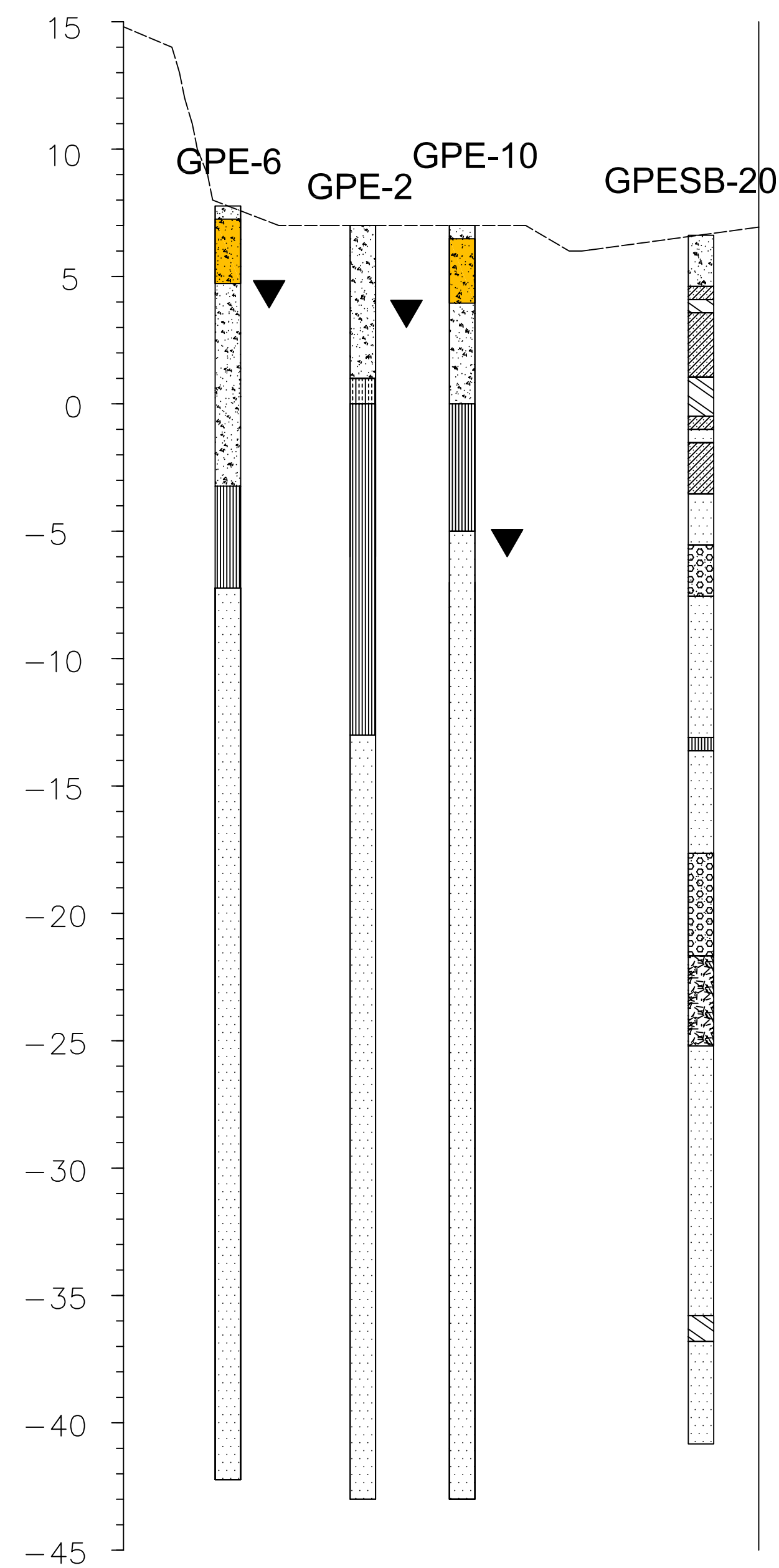
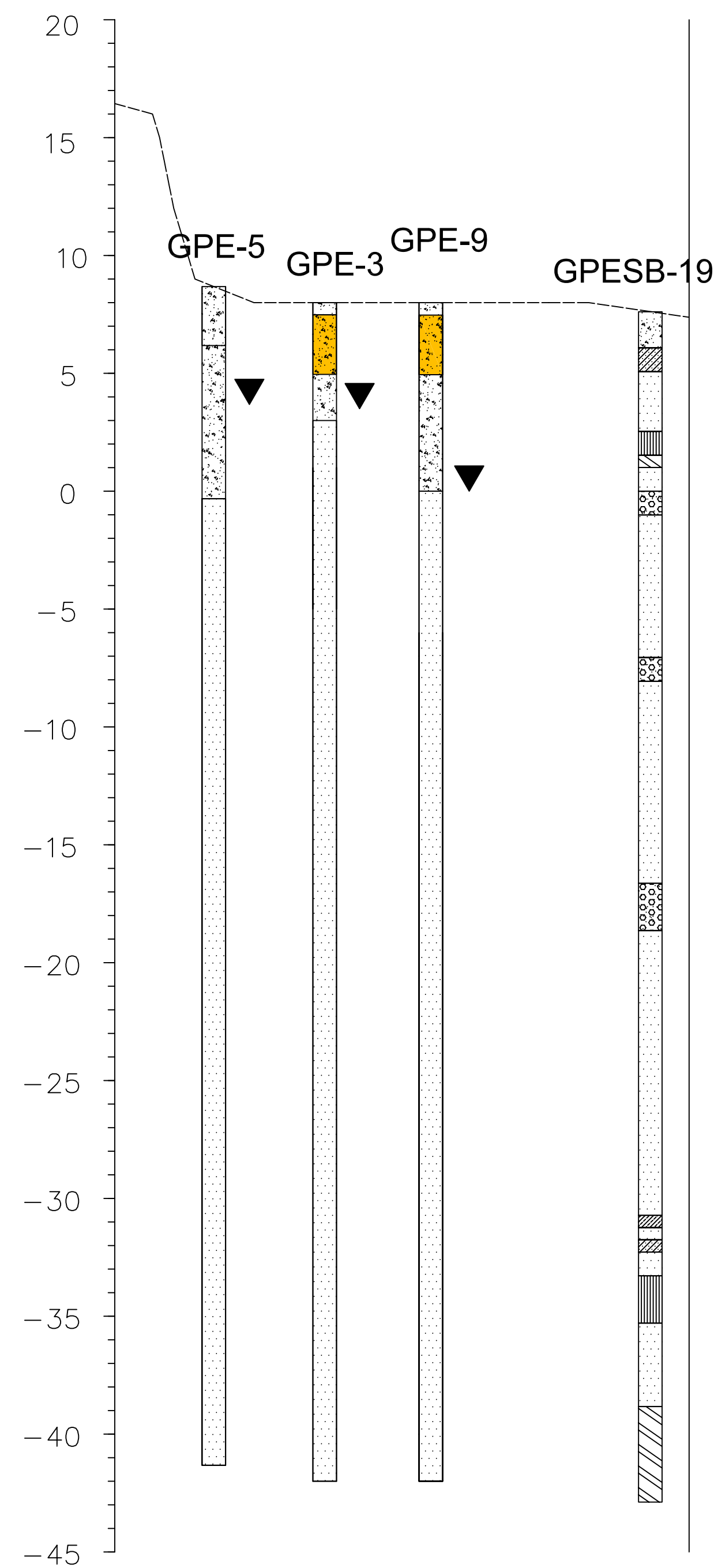
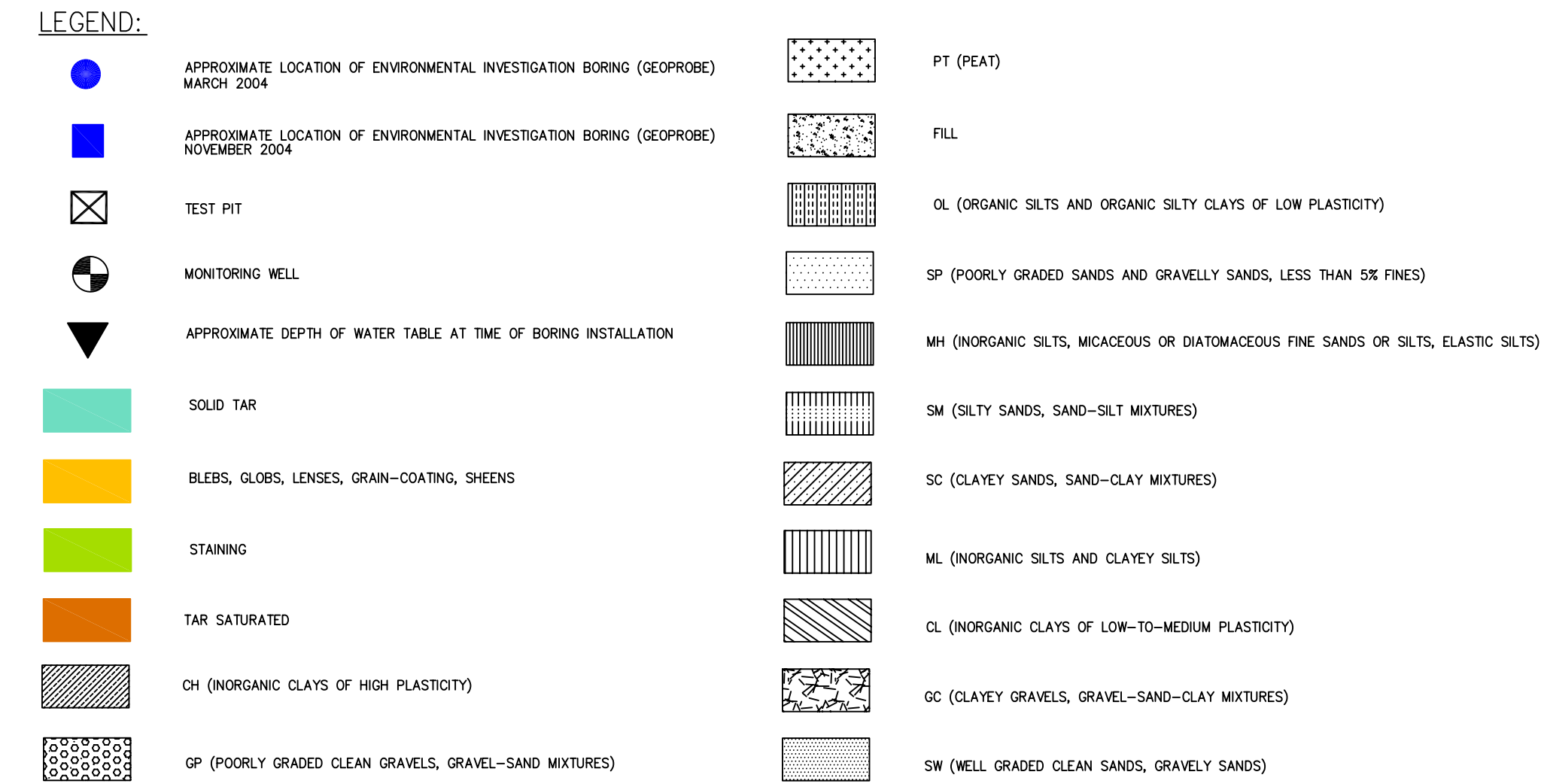
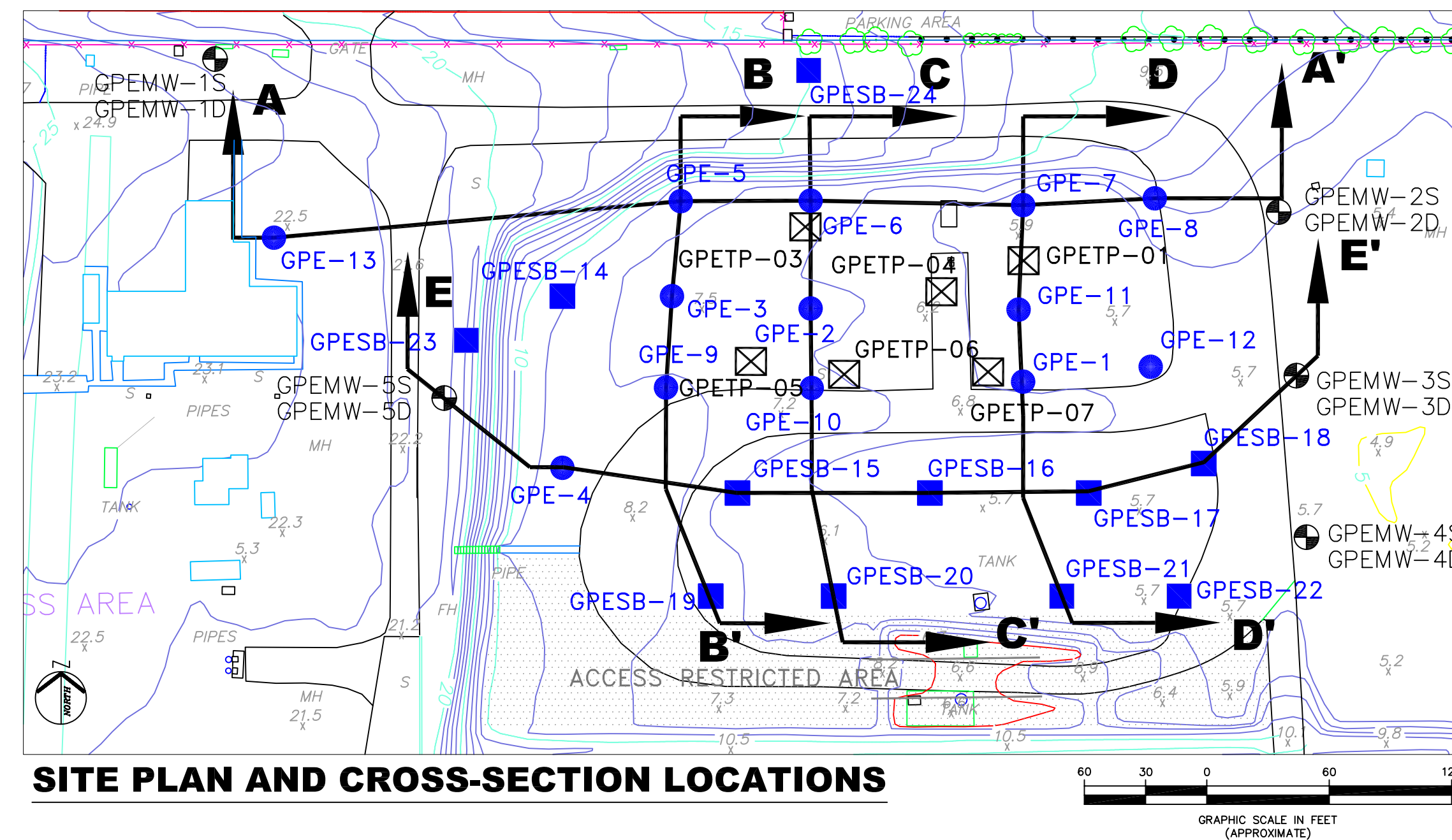
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0		32	0	0		Crushed stone 3/4" clean	SP		Slight coating of MGP like product				
	GPE12 (1.5-2)	24	0	0		Dark gray coarse to fine sand with some coarse gravel, moist, medium dense	SP		No physical/visual evidence of impacts				
4		36	0	0		Orange yellow coarse to fine sand and coarse to fine gravel, moist, medium dense	SP		No physical/visual evidence of impacts				
						Tan gray coarse to fine sand, with some coarse to fine gravel and some silt, wet, medium dense	SP		No physical/visual evidence of impacts				
8						Fill materials of brick and cinders							
		18	0	0		Tan gray red coarse to fine sand, some silt, wet, medium dense with brick and cinders	SP		No physical/visual evidence of impacts				
12													
		24	0	0		Tan gray red coarse to fine sand, with some coarse to fine gravel, and some silt, wet, medium dense	SP		No physical/visual evidence of impacts				
16		12	0	0		with brick, timbers, and cinders	SP		No physical/visual evidence of impacts				
		24	0	0		Peat, wet, soft, cohesive, low plasticity soils	PT		Hydrogen Sulfide like odors				
20	GPE12 (19-20)					Gray clayey silt, with trace to little coarse sand and fine gravel, wet, stiff, cohesive, high plasticity soils, 6" thick coarse sand with some silt at 1 ft. to 19.5'	MH		No physical/visual evidence of impacts				
		30	0	0		Gray tan clayey silt, wet, stiff, cohesive, low plasticity soils	ML		No physical/visual evidence of impacts				
24													
		36	0	0		Gray tan coarse to fine sand with fine gravel, wet, medium dense, 6" clayey silt band from 29' to 29.5'	SM		No physical/visual evidence of impacts				
28													
		12	0	0		Gray tan coarse to fine sand, with some clayey silt and little fine gravel, wet, medium dense	SM		No physical/visual evidence of impacts				
32		48	0	0		Gray tan clayey silt, with little fine to coarse gravel, wet, stiff, cohesive, high plasticity soils	MH		No physical/visual evidence of impacts				
36		48	0	0		Gray tan coarse to fine sand, with some fine to coarse gravel and some clayey silt, wet, medium dense to dense	SM		No physical/visual evidence of impacts				
40													
		38	0	0		Gray tan coarse to fine sand with some fine to coarse gravel and little clayey silt, wet, dense	SM		No physical/visual evidence of impacts				
44													
		48	0	0		Tan brown medium to fine sand with little coarse to fine gravel and little coarse sand, wet, medium dense	SP		No physical/visual evidence of impacts				
48	GPE12 (48-49)												

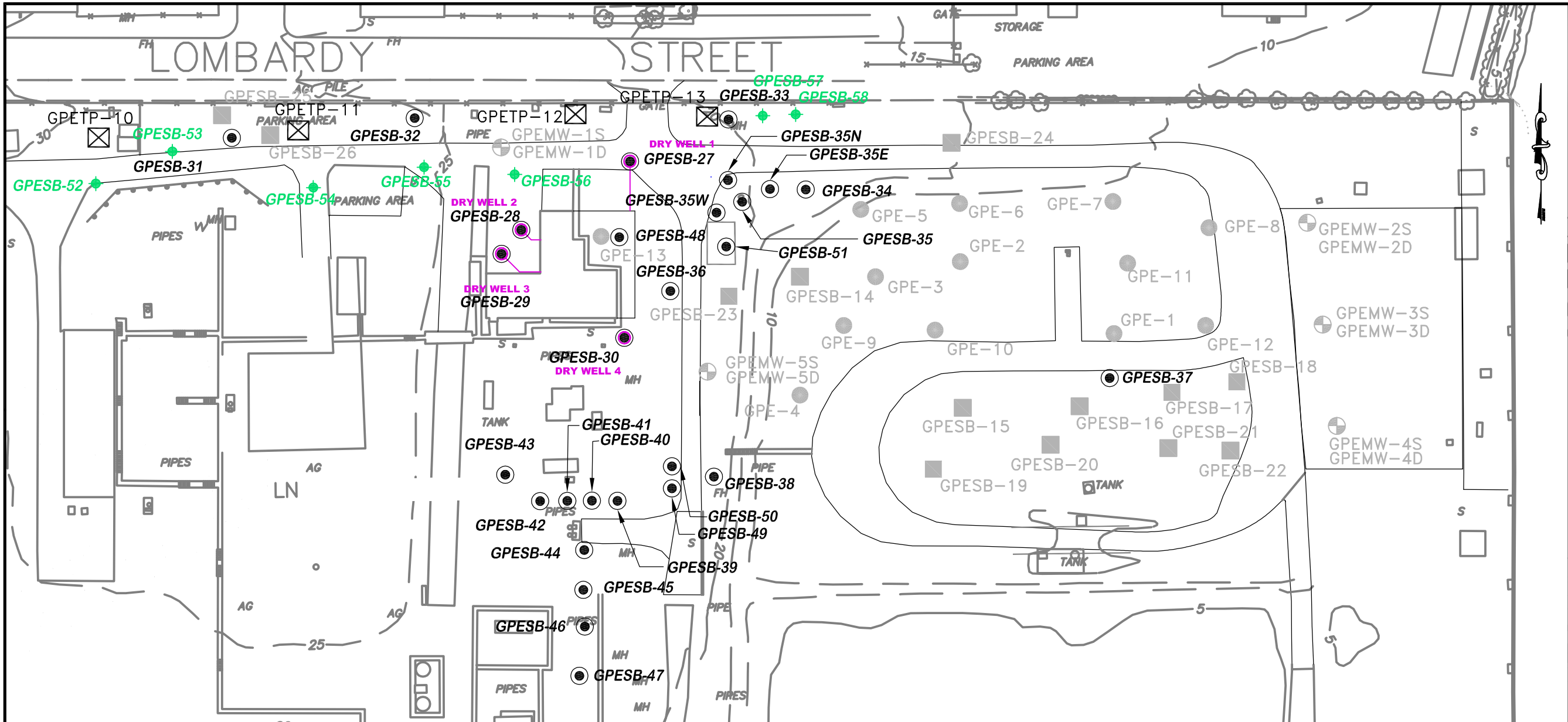
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Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPE13	
PROJECT NUMBER: 2522.033.024				WEATHER: High of 35	
PROJECT NAME: Green Point Energy Center LNG Facility				TOTAL DEPTH: 50'	
LOCATION: Green Point, NY				GROUND SURFACE ELEVATION: 00'	
DRILLING CO: Aquifer Drilling & Testing				DATE BEGUN: 3/17/04	
DRILLING METHOD: GeoProbe 660 DT Track Mounted Rig				DATE COMPLETED: 3/17/04	
DRILLER / HELPER: Jiri Kamenicek					
ENVIRONMENTAL SCIENTIST: JMS					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0	GPE13 (1.5-2)	135	0	0		0-3" Crushed stone 3/4" clean Tan yellow medium to fine sand, with some coarse to fine gravel, moist, medium dense	SP		No physical/visual evidence of impacts				
4						Tan yellow medium to fine sand, with some coarse to fine gravel, wet, medium dense			No physical/visual evidence of impacts				
8									No physical/visual evidence of impacts				
12	GPE13 (13-14)	36	0	0		Red brown medium to fine sand, with some clayey silt and little gravel, wet, medium dense Fill materials of brick, concrete, gravel, and cinders	SP		No physical/visual evidence of impacts				
16		36	0	0		Red brown medium to fine sand, with some clayey silt and little gravel, wet, medium dense Fill materials of bricks and concrete	SP		No physical/visual evidence of impacts				
20		24	0	0		Red brown clayey silt, with little medium to fine sand, wet, soft to medium stiff, cohesive, high plasticity soils	MH		No physical/visual evidence of impacts				
24	GPE13 (22-23)	40	0	0		Red brown clayey silt, with little medium to fine sand and little fine gravel, wet, stiff, cohesive, high plasticity soils	MH		No physical/visual evidence of impacts				
28		48	0	0		Tan brown coarse to fine sand, with some clayey silt and little coarse to fine gravel, wet, medium dense	SM		No physical/visual evidence of impacts				
32		36	0	0		Tan brown coarse to fine sand, with some coarse to fine gravel, wet, medium dense	SM		No physical/visual evidence of impacts				
36		40	0	0		Green brown coarse to fine sand with little coarse to fine gravel and trace silt, wet, medium dense	SP		No physical/visual evidence of impacts				
40		60	0	0		Green brown coarse to fine sand, with trace fine gravel, wet, medium dense	SP		No physical/visual evidence of impacts				
44	GPE13 (48-49)	60	0	0		Green brown coarse to fine sand, with trace fine gravel, wet, medium dense	SP		No physical/visual evidence of impacts				
48		60	0	0		Green brown medium to fine sand, with trace fine gravel, wet, medium dense	SP		No physical/visual evidence of impacts				

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REVISIONS/ISSUES		
NO.	DATE	DESCRIPTION
1.	08/04/06	Final issued to NYSDEC

LEGEND

PROPOSED SOIL BORING LOCATION

PROPOSED DRY WELL LOCATION

SUPPLEMENTAL SOIL BORING AND SAMPLING LOCATION

TEST PIT LOCATION

2004 / 2005 SOIL AND GROUNDWATER INVESTIGATIONS

GPE-8

●

PHASE I SOIL BORING (MARCH 2004)

GPESB-17

■

PHASE II SOIL BORING (NOV. 2004-JAN 2005)

GPEMW-3S

⊕

MONITORING WELL (NOV. 2004 - JAN 2005)

GPETP-06

⊠

TEST PIT (NOV. 2004 - JAN 2005)

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PAULUS SOKOLOWSKI and SARTOR Engineering, PC

Engineers Architects Environmental Scientists

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PROJECT

KEYSPAN CORPORATION
GREENPOINT ENERGY CENTER

BROOKLYN, NEW YORK

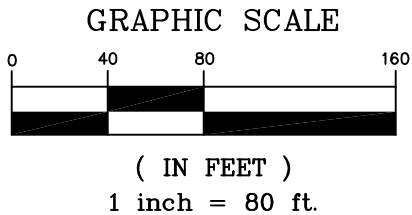
SHEET TITLE

GREENPOINT ENERGY CENTER
NORTHEAST CORNER
PROPOSED SAMPLING LOCATION
PLAN

DATE	08/04/06	JOB NO.	02522.033.024
SCALE	1"=80'		
DRAWN	BB	FIGURE NO.	2
CHKD.	JW		

NOTES:

- 1) BASEMAP OBTAINED FROM DRAWING ENTITLED, "TOPOGRAPHIC MAP FOR GREENPOINT ENERGY CENTER BOUNDED BY MASPETH AVENUE, VANDORVOORT AVENUE, LOMBARDY STREET, & NEWTOWN CREEK" DATED SEPTEMBER 24, 1999 AND PREPARED BY LYNCH, GIULIANO & ASSOCIATES, INC.
- 2) PROPOSED EXCAVATION AREAS OBTAINED FROM DRAWINGS D01-0005E, D01-0005F, D01-0005G, AND D01-0005H FOR PROJECT 140672 DATED MARCH 14, 2006 PREPARED BY BLACK AND VEATCH.
- 3) PROPOSED PILING LOCATIONS OBTAINED FROM DRAWING D04-0002A REV. P FOR PROJECT 140672 DATED MARCH 14, 2006 PREPARED BY BLACK AND VEATCH.
- 4) PROPOSED DRY WELL LOCATIONS OBTAINED FROM DRAWING P-3 ENTITLED "PLUMBING RISER DIAGRAMS AND DETAILS" DATED MARCH 17, 2006 PREPARED BY LIZARDOS ENGINEERING ASSOCIATES, P.C.
- 5) ANALYTICAL RESULTS BASED ON PRELIMINARY LABORATORY DATA.



GENERAL LEGEND

CURB		FLAGPOLE	
ROAD		LIGHT POLE	
DRIVE		UTILITY POLE	
WALL		UTILITY POLE W/LIGHT	
FENCE		ANCHOR GUY	
FENCE ON WALL		TRAFFIC SIGNAL	
GUARDRAIL		TRAFFIC CONTROL BOX	
SIDEWALK		MANHOLE	
CONC. PAD		FIRE HYDRANT	
TREELINE		VALVE	
SHRUBLINE		METAL COVER	
BRUSH LINE		LAMP POST	
RAILROAD		POST	
		SIGN	
BUILDING		CATCH BASIN	
TRAILER		DOUBLE CATCH BASIN	
SINGLE TREE		SINGLE SHRUB	

Paulus, Sokolowski & Sartor	BORING LOG	BOREHOLE NUMBER - GPESB-27
PROJECT NUMBER: 2522.033.024		WEATHER: Cloudy, 55 deg. F
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 30'
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 12, 2006
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 12, 2006
DRILLER / HELPER: Charlie Guzzman/Mike Mede		
ENVIRONMENTAL SCIENTIST: Brian D'Agostino		

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Asphalt and bluestone base material	ASPH			
0.5'-2'	GPESB-27		0.0	0		Brown fine to coarse SAND, some grey and brown medium to coarse gravel, dry	SP		Slight naphthalene-like odor; Black stained; Tar-coated	
2		Hand auger	8.3	0						
			4.1	0						
			0.0	0						
			0.0	0						
4	GPESB-27		0.0	0						
4'-6'			0.0	0						
			0.0	0						
			0.0	0						
6		40	0.0	0						
			0.0	0						
			0.0	0						
8			0.0	0						
			0.0	0						
10		50	0.0	0		Dark brown to brown fine to medium SAND, little brown fine gravel, dry				
			0.0	0						
			0.0	0						
12			0.0	0						
			0.0	0						
14			0.0	0		Brown to light brown fine to medium SAND, little brown fine gravel, trace red brick fragments, dry				
			0.0	0						
16		22	0.0	0						
			0.0	0						
18			0.0	0						
			0.0	0						
20		30	0.0	0						
			0.0	0						
22			0.0	0						
			0.0	0						
24	GPESB-27		0.0	0		Grey and brown fine to coarse SAND, little grey fine gravel, wet				
24'-26'			0.0	0						
		12	0.0	0						
26			0.0	0						
			0.0	0						
28			0.0	0						
			0.0	0						
30			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-28	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy, 55 deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 30'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 11, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 11, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Asphalt and bluestone base material	ASPH			
	GPESB-28 (0.5'-2')		0.0	0		Dark brown to brown fine to coarse SAND, some grey and brown medium to coarse gravel, dry	SP			
2		Hand auger	0.0	0						
			0.0	0						
4	GPESB-28 (4'-6')		0.0	0						
			0.0	0						
6		50	0.0	0		Brown fine to coarse SAND, little grey fine gravel, dry				
			0.0	0						
8			0.0	0						
			0.0	0						
10		42	0.0	0						
			0.0	0						
12			0.0	0						
			0.0	0						
14			0.0	0						
			0.0	0						
16		38	0.0	0						
			0.0	0						
18			0.0	0						
			0.0	0						
20		31	0.0	0						
			0.0	0						
22			0.0	0						
			0.0	0						
24	GPESB-28 (24'-26')		0.0	0		Grey fine to coarse GRAVEL, some brown fine to coarse sand, dry	GP			
			0.0	0		Grey and brown fine to coarse SAND, little grey fine gravel, wet	SW			
26		30	0.0	0						
			0.0	0						
28			0.0	0						
			0.0	0						
30			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-29	
PROJECT NUMBER:	2522.033.024			WEATHER:	Cloudy. 55 deg. F
PROJECT NAME:	Supplemental Environmental Investigation Area			TOTAL DEPTH:	30'
LOCATION:	Brooklyn, New York			GROUND SURFACE ELEVATION:	
DRILLING CO:	Fenley & Nicol			DATE BEGUN:	May 11, 2006
DRILLING METHOD:	GeoProbe			DATE COMPLETED:	May 11, 2006
DRILLER / HELPER:	Charlie Guzzman/Mike Mede				
ENVIRONMENTAL SCIENTIST:	Brian D'Agostino				

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Asphalt and bluestone base material	ASP			
	GPESB-29 (0.5'-2')		0.0	0		Dark brown to brown fine to coarse SAND, some grey and brown medium to coarse gravel, dry	SP			
2		Hand auger	0.0	0						
			0.0	0		Brown fine to medium SAND, little grey fine gravel, dry				
4			0.0	0						
			0.0	0						
6		40	0.0	0		Brown to light brown fine to medium SAND, trace grey fine gravel, trace red brick fragments, dry				
			0.0	0						
8			0.0	0						
			0.0	0						
10		51	0.0	0						
			0.0	0						
12			0.0	0		Grey fine to coarse GRAVEL, some brown fine to coarse sand, dry	GP			
			0.0	0		Brown to light brown fine to medium SAND, trace fine gravel, dry	SP			
14			0.0	0						
			0.0	0						
16		6	0.0	0						
			0.0	0						
18			0.0	0						
			0.0	0						
20		11	0.0	0		Brown to dark brown fine to medium SAND, some grey fine gravel, wet				
			0.0	0						
22			0.0	0						
			0.0	0						
24	GPESB-29 (24'-26')		0.0	0						
		18	0.0	0		Grey and brown fine to coarse SAND, trace silt, wet				
26			0.0	0						
			0.0	0						
28			0.0	0						
			0.0	0						
30			0.0	0						

PROJECT NUMBER: 2522.033.024

WEATHER: Cloudy, mid-50's deg. F

PROJECT NAME: Supplemental Environmental Investigation Area

TOTAL DEPTH: 30'

LOCATION: Brooklyn, New York

GROUND SURFACE ELEVATION:

DRILLING CO: Fenley & Nicol

DATE BEGUN: May 10, 2006

DRILLING METHOD: GeoProbe

DATE COMPLETED: May 10, 2006

DRILLER / HELPER: Charlie Guzzman/Mike Mede

ENVIRONMENTAL SCIENTIST: Brian D'Agostino

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-30 (0.5'-2')		0.0	0		Brown fine to medium SAND, some grey and brown fine to coarse gravel, dry	FILL			
2		Hand auger	0.0	0			SP			
4	GPESB-30 (4'-6')		0.0	0						
		24	0.0	0						
6			0.0	0						
8			0.0	0						
10		30	0.0	0		Brown medium to coarse SAND, little grey fine gravel, dry				
12			0.0	0						
14			0.0	0						
16		30	0.0	0						
18			0.0	0		Grey and brown fine to coarse GRAVEL, some brown fine to coarse sand, dry	GP			
20		28	0.0	0		Light brown to brown fine to medium SAND, trace grey fine gravel, dry	SP			
22			0.0	0						
24	GPESB-30 (24.5'-26.5')		0.0	0						
		12	0.0	0		Grey and brown fine to coarse SAND, trace silt, wet				
26			0.0	0						
28			0.0	0						
30			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-31	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy. mid-50's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 15, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 15, 2006		
DRILLER / HELPER: Charlie Guzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Asphalt and bluestone base material	ASPH			
	GPESB-31 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine gravel	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0		Brown to light brown fine to medium SAND, little grey fine gravel				
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-31 (5'-7')	40	0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-31 (7'-9')		0.0	0		Brown fine to medium SAND, trace silt, dry				
8			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-31 (9'-10')		0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-32	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy, mid-50's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 15, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 15, 2006		
DRILLER / HELPER: Charlie Guzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Asphalt and bluestone base material	ASPH			
	GPESB-32 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine gravel	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0		Brown to light brown fine to medium SAND, little grey fine gravel				
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
		42	0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
	GPESB-32 (7'-9')		0.0	0						
			0.0	0		Brown fine to medium SAND, trace silt, dry				
8			0.0	0						
			0.0	0						
	GPESB-32 (9'-10')		0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-33	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy, mid-50's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 15'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 10, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 10, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-33 (0.5'-2')		0.0	0		Grey fine to coarse GRAVEL, some brown fine to coarse sand		FILL		
			0.0	0			GP			
			0.0	0						
2		Hand auger	0.0	0		Brown fine to coarse SAND, some grey fine to coarse gravel				
	GPESB-33 (2.5'-4.5')		0.0	0			SP		Slight Naphthalene-like odors, Black staining, Tar-coated	
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
		48	0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
	GPESB-33 (7'-9')		0.0	0						
			0.0	0						
8			0.0	0						
			0.0	0						
			0.0	0						
10		40	0.0	0		Brown fine to medium SAND, some grey fine to coarse gravel, dry				
			0.0	0						
			0.0	0						
			0.0	0						
12			0.0	0						
			0.0	0						
	GPESB-33 (13'-15')		0.0	0						
			0.0	0						
14			0.0	0						
			0.0	0						
			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-34	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy, mid-50's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 8, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 8, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material	FILL			
	GPESB-34 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine gravel, dry	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-34 (5'-7')	36	0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0					Black staining	
			0.0	0						
8	GPESB-34 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG				BOREHOLE NUMBER - GPESB-35			
PROJECT NUMBER: 2522.033.024		WEATHER: Cloudy, 55 deg. F							
PROJECT NAME: Greenpoint Liquefaction Plant Replacement Area		TOTAL DEPTH: 20'							
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:							
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 8, 2006							
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 8, 2006							
DRILLER / HELPER: Charlie Guzzman/Mike Mede									
ENVIRONMENTAL SCIENTIST: Brian D'Agostino									

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-35 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine to coarse gravel	FILL			
			0.0	0			SP			
			8.3	0						
2		Hand auger	4.1	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
	GPESB-35 (5'-7')	50	38.5	0					Strong Naphthalene-like odor, Black stained, Tar-saturated	
			212	0						
6			287	0						
			112	0						
			11.3	0		Brown medium to coarse SAND, some brown fine gravel				
			0.0	0						
8			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10		24	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
12			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
14			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-35 (15'-17')	32	0.0	0		Brown fine to coarse SAND, little brown fine gravel, dry				
			0.0	0						
16			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
18			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
20			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-35E	
PROJECT NUMBER: 2522.033.024			WEATHER: Partly cloudy, low 60's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 17, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 17, 2006		
DRILLER / HELPER: Charlie Guzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material	FILL			
			0.0	0		Brown fine to coarse SAND, some grey fine gravel, dry	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
	50		0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8			0.0	0					Black staining	
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-35N	
PROJECT NUMBER: 2522.033.024		WEATHER: Partly cloudy, low 60's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 17, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 17, 2006			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
			0.0	0		Brown fine to coarse SAND, some grey fine gravel, dry	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
		50	0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-35W	
PROJECT NUMBER: 2522.033.024		WEATHER: Partly cloudy, low 60's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 17, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 17, 2006			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
			0.0	0		Brown fine to coarse SAND, some grey fine gravel, dry		FILL		
			0.0	0				SP		
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			3.2	0						
			8.7	0						
	40		15.8	0						
			4.2	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-36	
PROJECT NUMBER: 2522.033.024		WEATHER: Cloudy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 10, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 10, 2006			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-36 (0.5'-2')		0.0	0		Brown fine to coarse SAND, little grey fine gravel	FILL			
			0.0	0			SP			
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
		50	0.0	0						
			0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-36 (7'-9')		0.0	0		Brown fine to coarse SAND, trace grey fine gravel				
			0.0	0						
8			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-36 (9'-10')		0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-37	
PROJECT NUMBER: 2522.033.024		WEATHER: Cloudy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 9, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 9, 2006			
DRILLER / HELPER: Charlie Guzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material	FILL			
	GPESB-37 (0.5'-2')		0.0	0		Light brown to brown fine to coarse SAND, little grey gravel, wet	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-37 50 (5'-7')		0.0	0						
			0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0		Red-brown fine GRAVEL, some fine brown sand, some red-brown silty clay, wet	GP			
			0.0	0						
			0.0	0		Greenish-brown fine SAND, some green-brown silty clay, wet	SC			
8	GPESB-37 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0		Greenish-brown fine SAND, some green-brown silty clay, pieces organic material, wet				
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-38	
PROJECT NUMBER: 2522.033.024		WEATHER: Cloudy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nichol		DATE BEGUN: May 8, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 8, 2006			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-38 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine gravel, dry		FILL		
			0.0	0				SP		
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-38 40 (5'-7')		0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-38 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

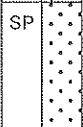
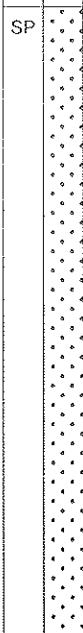
Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-39	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy, mid-50's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 8, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 8, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material		FILL		
1	GPESB-39 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine to coarse gravel	SP			
2		Hand auger	0.0	0						
3			0.0	0						
4			0.0	0						
5			0.0	0						
6			0.0	0						
7		30	0.0	0		Brown fine to coarse SAND, little grey fine to coarse gravel, dry				
8	GPESB-39 (5'-7')		0.0	0						
9			0.0	0						
10	GPESB-39 (8'-10')		0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-40	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy, mid-50's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 8, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 8, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-40 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine to coarse gravel		FILL		
			0.0	0				SP		
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
		28	0.0	0						
	GPESB-40 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-40 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-41	
PROJECT NUMBER: 2522.033.024		WEATHER: Cloudy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 8, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 8, 2006			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Asphalt and bluestone base material	FILL			
	GPESB-41 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine to coarse gravel	SP			
			0.0	0						
			0.0	0		Brown and grey fine to coarse GRAVEL, some brown fine to coarse sand	GP			
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
		30	0.0	0		Brown fine to coarse SAND, little grey fine gravel	SP			
	GPESB-41 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-41 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-42	
PROJECT NUMBER: 2522.033.024			WEATHER: Cloudy, mid-50's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 9.5'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 8, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 8, 2006		
DRILLER / HELPER: Charlie Guzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-42 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some grey fine to coarse gravel		FILL		
			0.0	0				SP		
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0		Brown and grey fine to coarse GRAVEL, some brown fine to coarse sand, some grey cobbles		GP		
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
		24	0.0	0		Brown and grey fine to coarse GRAVEL, some brown fine to coarse sand, dry				
	GPESB-42 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-42 (8'-9.5')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0		Refusal				
10										

Paulus, Sokolowski & Sartor		BORING LOG				BOREHOLE NUMBER - GPESB-43				
PROJECT NUMBER: 2522.033.024						WEATHER: Rainy, mid-50's deg. F				
PROJECT NAME: Supplemental Environmental Investigation Area						TOTAL DEPTH: 10'				
LOCATION: Brooklyn, New York						GROUND SURFACE ELEVATION:				
DRILLING CO: Fenley & Nicol						DATE BEGUN: May 9, 2006				
DRILLING METHOD: GeoProbe						DATE COMPLETED: May 9, 2006				
DRILLER / HELPER: Charlie Guzzman/Mike Mede										
ENVIRONMENTAL SCIENTIST: Brian D'Agostino										
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-43 (0.5'-2')		0.0	0		Brown to dark brown fine to coarse SAND, some grey fine to coarse gravel	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0		Brown and grey fine to coarse GRAVEL, some brown fine to coarse sand, some grey cobbles	GP			
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0						
		24	0.0	0		Brown and grey fine to coarse GRAVEL, some brown fine to coarse sand, dry				
	GPESB-43 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-43 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-44	
PROJECT NUMBER: 2522.033.024		WEATHER: Rainy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 15, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 15, 2006			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material	FILL			
	GPESB-44 (0.5'-2')		0.0	0		Brown to dark brown fine to coarse SAND, some grey fine to coarse gravel, some grey cobbles	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
	GPESB-44 (3.5'-5.5')		0.0	0						
4			0.0	0		Brown fine to coarse SAND, little grey fine to coarse gravel, dry				
			0.0	0						
		30	0.0	0						
	GPESB-44 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-44 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG				BOREHOLE NUMBER - GPESB-45				
PROJECT NUMBER: 2522.033.024						WEATHER: Rainy, mid-50's deg. F				
PROJECT NAME: Supplemental Environmental Investigation Area						TOTAL DEPTH: 10'				
LOCATION: Brooklyn, New York						GROUND SURFACE ELEVATION:				
DRILLING CO: Fenley & Nicol						DATE BEGUN: May 15, 2006				
DRILLING METHOD: GeoProbe						DATE COMPLETED: May 15, 2006				
DRILLER / HELPER: Charlie Guzzman/Mike Mede										
ENVIRONMENTAL SCIENTIST: Brian D'Agostino										
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-45 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some brown fine to coarse gravel, some grey cobbles	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0		Brown to dark brown fine to coarse SAND, dry				
4			0.0	0						
			0.0	0						
			0.0	0						
		46	0.0	0						
	GPESB-45 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-45 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-46	
PROJECT NUMBER: 2522.033.024		WEATHER: Rainy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 15, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 15, 2006			
DRILLER / HELPER: Charlie Guzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material	FILL			
	GPESB-46 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some brown fine to coarse gravel	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
	GPESB-46 (3.5'-5.5')		0.0	0		Brown to dark brown fine to coarse SAND, trace grey fine gravel, dry				
4			0.0	0						
			0.0	0						
		42	0.0	0						
	GPESB-46 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-46 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-47	
PROJECT NUMBER: 2522.033.024		WEATHER: Rainy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 15, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 15, 2006			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-47 (0.5'-2')		0.0	0		Brown fine to coarse SAND, some brown fine gravel		FILL		
			0.0	0				SP		
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0		Brown fine to coarse SAND, little brown fine gravel				
			0.0	0						
		50	0.0	0						
	GPESB-47 (5.5'-7.5')		0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0		Brown fine to medium SAND, trace brown silt				
8	GPESB-47 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-48	
PROJECT NUMBER: 2522.033.024		WEATHER: Cloudy, mid-50's deg. F			
PROJECT NAME: Supplemental Environmental Investigation Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nicol		DATE BEGUN: May 10, 2006			
DRILLING METHOD: GeoProbe		DATE COMPLETED: May 10, 2006			
DRILLER / HELPER: Charlie Guzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-48 (0.5'-2')		0.0	0		Light brown to brown fine to coarse SAND, some brown fine gravel	FILL			
			0.0	0			SP			
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
	GPESB-48 (3'-5')		0.0	0						
			0.0	0						
4			0.0	0		Light brown to brown fine to coarse SAND, some brown fine to coarse gravel				
			0.0	0						
		28	0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8	GPESB-48 (8'-10')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-49	
PROJECT NUMBER: 2522.033.024			WEATHER: Overcast, heavy rain, mid-50's deg.		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 16, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 16, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
			0.0	0		Dark brown to brown fine to coarse SAND, little grey fine gravel		FILL		
			0.0	0				SP		
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			8.7	0					Slight Naphthalene-like odor, Black staining	
			2.3	0		Brown fine to coarse SAND, little grey fine gravel				
	36		0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-50	
PROJECT NUMBER: 2522.033.024			WEATHER: Overcast, heavy rain, mid-50's		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 10'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 16, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 16, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
			0.0	0		Dark brown to brown fine to coarse SAND, little grey fine gravel	SP			
			0.0	0						
			0.0	0						
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
4			0.0	0						
			0.0	0						
			0.0	0		Brown fine to coarse SAND, little grey fine gravel				
	36		0.0	0						
			0.0	0						
6			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
8			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10			0.0	0						

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-51	
PROJECT NUMBER: 2522.033.024			WEATHER: Partly cloudy. low 60's deg. F		
PROJECT NAME: Supplemental Environmental Investigation Area			TOTAL DEPTH: 25'		
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:		
DRILLING CO: Fenley & Nicol			DATE BEGUN: May 17, 2006		
DRILLING METHOD: GeoProbe			DATE COMPLETED: May 17, 2006		
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Brian D'Agostino					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
0						Bluestone base material				
	GPESB-51 (0.5'-2')		0.0	0		Brown to light brown fine to coarse SAND, little grey fine to coarse gravel	FILL			
			0.0	0			SP			
2		Hand auger	0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-51 (5'-7')	30	0.0	0					Slight Naphthalene-like odor, Black stained, Tar-coated	
			5.5	0						
			9.3	0						
			8.0	0						
			12.2	0						
			14.5	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
10	GPESB-51 (10'-12')	24	0.0	0					Strong Naphthalene-like odor, Black stained, Solid tar from 10'-12'	
			25.6	0						
			88.7	0						
			22.1	0						
			29.6	0						
			33.5	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
	GPESB-51 (15'-17')	24	0.0	0		Grey-brown fine to coarse SAND, trace silt, moist			Slight Petroleum-like odor	
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			12.7	0						
			23.8	0						
			15.5	0						
			18.6	0						
		30	0.0	0		Grey fine to coarse SAND, trace grey fine gravel, trace silt, wet			Moderate Petroleum-like odor	
			5.6	0						
			6.2	0						
			3.6	0						
			2.7	0						
			3.5	0						
	GPESB-51 (23'-25')		0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						
			0.0	0						

Paulus, Sokolowski & Sartor			BORING LOG				BOREHOLE NUMBER - GPESB-52						
PROJECT NUMBER: 2522.033.170						WEATHER: Cloudy. low-70's deg. F							
PROJECT NAME: Greenpoint Liquefaction Plant Expansion Area						TOTAL DEPTH: 25'							
LOCATION: Brooklyn, New York						GROUND SURFACE ELEVATION:							
DRILLING CO: Fenley & Nichol						DATE BEGUN: August 20, 2007							
DRILLING METHOD: GeoProbe						DATE COMPLETED: August 20, 2007							
DRILLER / HELPER: Charlie Guzzman/Mike Mede													
ENVIRONMENTAL SCIENTIST: Chris Scharkopf													
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0													
	GPESB-52 (0.5'-2')	Hand auger	0.0	0.0		Brown to dark brown fine to medium sandy FILL, little fine to coarse gravel, trace silt	FILL						
			0.0	0.0									
			0.0	0.0									
			0.0	0.0					very slight odors, very slight black staining from 3 to 5 feet bgs.				
4			0.0	0.0									
	36		0.0	0.0									
			0.0	0.0									
			0.0	0.0		Greyish-brown fine to medium SAND, little fine to coarse gravel, trace silt	SP						
8			0.0	0.0									
	36		0.0	0.0									
			0.0	0.0									
			0.0	0.0		Tan-brown fine to medium SAND, some coarse Sand, trace silt							
			0.0	0.0		Tan-brown fine to medium SAND, some silt							
12			0.0	0.0									
	48		0.0	0.0									
			0.0	0.0									
			0.0	0.0		Greyish-brown fine to medium silty SAND							
			0.0	0.0									
16	GPESB-52 (16'-17')		0.0	0.0		Dark brown to grey fine to medium SAND, little coarse Gravel, little silt							
			0.0	0.0									
	48		0.0	0.0									
			0.0	0.0									
			0.0	0.0		Tan-brown fine to medium silty SAND							
			0.0	0.0									
20	GPESB-52 (20'-21')		0.0	0.0		Dark brown to grey fine to medium SAND, some silt, little fine gravel							
			0.0	0.0									
	48		0.0	0.0									
			0.0	0.0		Tan-brown fine to medium silty SAND							
			0.0	0.0									
24	GPESB-52 (24'-25')		0.0	0.0									

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Paulus, Sokolowski & Sartor			BORING LOG				BOREHOLE NUMBER - GPESB-53						
PROJECT NUMBER: 2522.033.170						WEATHER: Rainy, low-70's deg. F							
PROJECT NAME: Greenpoint Liquefaction Plant Expansion Area						TOTAL DEPTH: 25'							
LOCATION: Brooklyn, New York						GROUND SURFACE ELEVATION:							
DRILLING CO: Fenley & Nichol						DATE BEGUN: August 21, 2007							
DRILLING METHOD: GeoProbe						DATE COMPLETED: August 22, 2007							
DRILLER / HELPER: Charlie Guzzman/Mike Mede													
ENVIRONMENTAL SCIENTIST: Chris Scharkopf													
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0						6-inches bluestone fill							
	GPESB-53 (0.5'-2')	Hand auger	0.0	0.0		Tan-brown fine to medium sandy FILL with silt. Little fine to medium gravel with cobbles.	FILL						
			0.0	0.0									
			0.0	0.0									
4			0.0	0.0									
	32		0.0	0.0									
			0.0	0.0		Tan-light brown fine to coarse SAND, little silt.	SP						
			0.0	0.0		Tan-brown fine to medium SAND, some silt							
			0.0	0.0									
8			0.0	0.0		Greyish-brown fine to medium silty SAND							
	30		0.0	0.0		Tan-brown fine to medium sandy SILT, trace clay	ML						
			0.0	0.0		Tan-brown fine to medium SAND, some silt	SM						
	GPESB-53 (10.5'-11.5')		0.0	0.0									
12			0.0	0.0									
	48		0.0	0.0									
			0.0	0.0									
			0.0	0.0									
16			0.0	0.0									
	48		0.0	0.0		Tan-brown fine to medium sandy SILT, trace clay.	ML						
	GPESB-53 (18'-20')		0.0	0.0	▼								
			0.0	0.0									
20			0.0	0.0									
	48		0.0	0.0									
			0.0	0.0		Tan-brown SILT, some brown fine to medium sand.							
			0.0	0.0		Tan-brown SILT, little brown fine to medium sand, little clay.							
24	GPESB-53 (24'-25')		0.0	0.0									

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Paulus, Sokolowski & Sartor			BORING LOG				BOREHOLE NUMBER - GPESB-54						
PROJECT NUMBER: 2522.033.170						WEATHER: Cloudy. low-70's deg. F							
PROJECT NAME: Greenpoint Liquefaction Plant Expansion Area						TOTAL DEPTH: 15'							
LOCATION: Brooklyn, New York						GROUND SURFACE ELEVATION:							
DRILLING CO: Fenley & Nichol						DATE BEGUN: August 22, 2007							
DRILLING METHOD: GeoProbe						DATE COMPLETED: August 22, 2007							
DRILLER / HELPER: Charlie Guzzman/Mike Mede													
ENVIRONMENTAL SCIENTIST: Chris Scharkopf													
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0						asphalt and bluestone base							
	GPESB-54 (0.5'-2')	Hand auger				Tan-light grey SILT with little fine to medium sand	FILL	^					
			0.0	0.0			ML						
			0.0	0.0									
			0.0	0.0									
4			0.0	0.0									
		48	0.0	0.0		Tan-light brown clayey SILT, little fine to medium sand							
			0.0	0.0									
			0.0	0.0		Tan-brown clayey SILT, little fine to medium sand							
8			0.0	0.0									
	GPESB-54 (9'-10')	48	0.0	0.0									
			0.0	0.0									
			0.0	0.0									
			0.0	0.0		Tan-light grey fine to medium SAND, little coarse sand, little silt	SP						
12			0.0	0.0		Brown clayey SILT, some coarse gravel and pieces cobbles	ML						
		48	0.0	0.0									
			0.0	0.0		Brown fine to medium SAND, some silt, some coarse gravel and pieces cobbles (Refusal at 15 ')	SP						
	GPESB-54 (14'-15')												

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Paulus, Sokolowski & Sartor			BORING LOG					BOREHOLE NUMBER - GPESB-55						
PROJECT NUMBER: 2522.033.170			WEATHER: Cloudy. mid-60's deg. F											
PROJECT NAME: Greenpoint Liquefaction Plant Expansion Area			TOTAL DEPTH: 23.5											
LOCATION: Brooklyn, New York			GROUND SURFACE ELEVATION:											
DRILLING CO: Fenley & Nichol			DATE BEGUN: August 23, 2007											
DRILLING METHOD: GeoProbe			DATE COMPLETED: August 23, 2007											
DRILLER / HELPER: Charlie Guzzman/Mike Mede														
ENVIRONMENTAL SCIENTIST: Chris Scharkopf														
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS				
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING	
0						asphalt and bluestone base								
	GPESB-55 (0.5'-2')	Hand auger	0.0	0.0		Dark brown silty FILL, little fine to coarse sand and fine to medium gravel		ASPHALT FILL						
			0.0	0.0										
			0.0	0.0										
4			0.0	0.0										
	40		0.0	0.0										
			0.0	0.0		Light brown silty FILL, little fine to medium sand, trace fine gravel								
			0.0	0.0										
8			0.0	0.0										
	GPESB-55 (9'-10')	48	0.0	0.0		6-inch layer dark brown wood chips			Slight creosote odor from wood chips					
			0.0	0.0		Light brown clayey SILT, trace fine to medium sand	ML							
			0.0	0.0										
12			0.0	0.0										
	48		0.0	0.0										
			0.0	0.0										
16			0.0	0.0		Light brown/tan fine to coarse SAND, some fine gravel, little silt								
	GPESB-55 (17'-18')	32	0.0	0.0										
			0.0	0.0										
20			0.0	0.0										
	28		0.0	0.0										
	GPESB-55 (22'-23.5')		0.0	0.0		Light brown fine to coarse SAND with fine to coarse gravel and pieces cobbles (refusal at 23.5)	SP							
			0.0	0.0										
24			0.0	0.0										

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Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-56	
PROJECT NUMBER: 2522.033.170		WEATHER: Cloudy. mid-60's deg. F			
PROJECT NAME: Greenpoint Liquefaction Plant Expansion Area		TOTAL DEPTH: 25'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nichol		DATE BEGUN: August 23, 2007			
DRILLING METHOD: GeoProbe		DATE COMPLETED: August 23, 2007			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Chris Scharkopf					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0						asphalt and bluestone base		ASPHALT					
	GPESB-56 (0.5'-2')	Hand auger	0.0	0.0		Dark brown silty FILL, little fine to coarse sand and gravel							
			0.0	0.0		Light brown SILT, little fine to medium sand		ML					
			0.0	0.0									
4			0.0	0.0									
	GPESB-56 (5'-6')	60	0.0	0.0		Brown fine sandy SILT, some medium sand, little coarse gravel							
			0.0	0.0									
			0.0	0.0									
8			0.0	0.0									
		12	0.0	0.0		Tan brown fine to medium SAND, some coarse sand and coarse gravel, trace silt		SP	Slight creosote odor from wood chips				
	GPESB-56 (10'-11')		0.0	0.0									
			0.0	0.0									
12			0.0	0.0									
		24	0.0	0.0									
			0.0	0.0									
			0.0	0.0									
16			0.0	0.0		Tan brown fine to medium SAND, some coarse sand and coarse gravel, trace silt							
		30	0.0	0.0									
	GPESB-56 (18'-19.5')		0.0	0.0									
			0.0	0.0									
20			0.0	0.0									
			0.0	0.0									
			0.0	0.0		Refusal at 21'							
24													

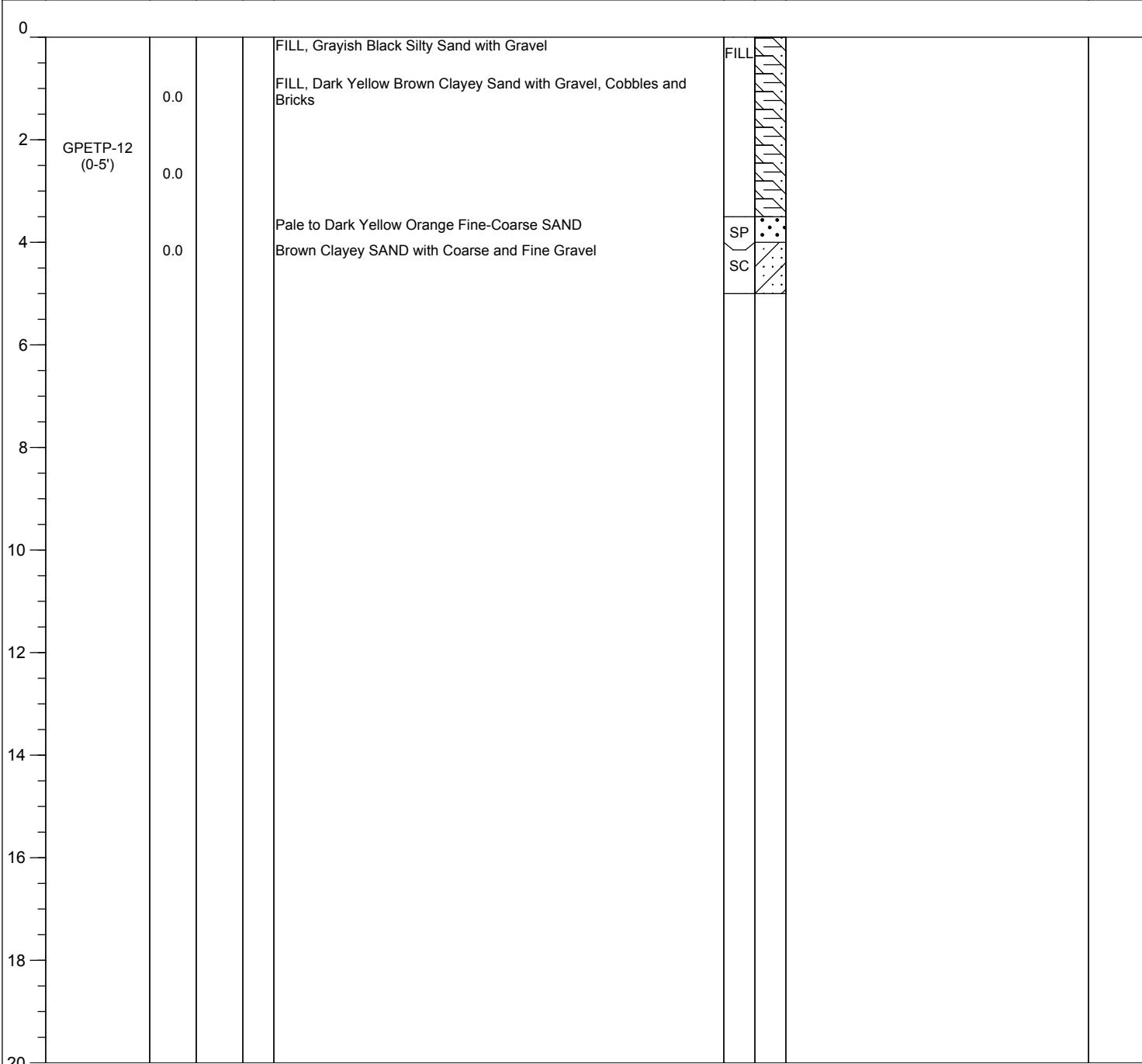
Paulus, Sokolowski & Sartor		BORING LOG				BOREHOLE NUMBER - GPESB-57														
PROJECT NUMBER: 2522.033.170						WEATHER: Cloudy. mid-60's deg. F														
PROJECT NAME: Greenpoint Liquefaction Plant Expansion Area						TOTAL DEPTH: 10														
LOCATION: Brooklyn, New York						GROUND SURFACE ELEVATION:														
DRILLING CO: Fenley & Nichol						DATE BEGUN: August 23, 2007														
DRILLING METHOD: GeoProbe						DATE COMPLETED: August 23, 2007														
DRILLER / HELPER: Charlie Guzzman/Mike Mede																				
ENVIRONMENTAL SCIENTIST: Chris Scharkopf																				
DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS										
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING							
0																				
	GPESB-57 (0.5'-2')	60				6-inches bluestone gravel		FILL												
			0.0	0.0		Tan fine to coarse SAND, little fine to medium gravel		SP												
			0.0	0.0																
			0.0	0.0																
			0.0	0.0		Brown-tan fine to coarse sandy SILT, some fine to coarse gravel		ML												
4			0.0	0.0																
		36	0.0	0.0																
			0.0	0.0																
	GPESB-57 (6.5'-8')		0.0	0.0																
			0.0	0.0																
8			0.0	0.0																
	GPESB-57 (9'-10')		0.0	0.0																
		12	0.0	0.0																

Paulus, Sokolowski & Sartor		BORING LOG		BOREHOLE NUMBER - GPESB-58	
PROJECT NUMBER: 2522.033.170		WEATHER: Cloudy. mid-60's deg. F			
PROJECT NAME: Greenpoint Liquefaction Plant Expansion Area		TOTAL DEPTH: 10'			
LOCATION: Brooklyn, New York		GROUND SURFACE ELEVATION:			
DRILLING CO: Fenley & Nichol		DATE BEGUN: August 23, 2007			
DRILLING METHOD: GeoProbe		DATE COMPLETED: August 23, 2007			
DRILLER / HELPER: Charlie Guzzman/Mike Mede					
ENVIRONMENTAL SCIENTIST: Chris Scharkopf					

DEPTH	SAMPLE NUMBER	RECOVERY (in)	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	MGP DESCRIPTIONS	VISUAL DESCRIPTIONS			
										SOLID TAR	TAR SATURATED	GRAIN-COATING, ETC.	STAINING
0						3-inches bluestone gravel							
	GPESB-58 (0.5'-2')	60				Dark brown silty FILL, some fine to coarse sand and gravel, brick fragments	GP						
			0.0	0.0			FILL						
			0.0	0.0									
			0.0	0.0									
4			0.0	0.0									
		42	0.0	0.0									
			0.0	0.0		Brown fine to medium sandy SILT, little coarse gravel	ML						
	GPESB-58 (7'-8.5')		0.0	0.0									
8			0.0	0.0									
	GPESB-58 (9'-10')	12	0.0	0.0									

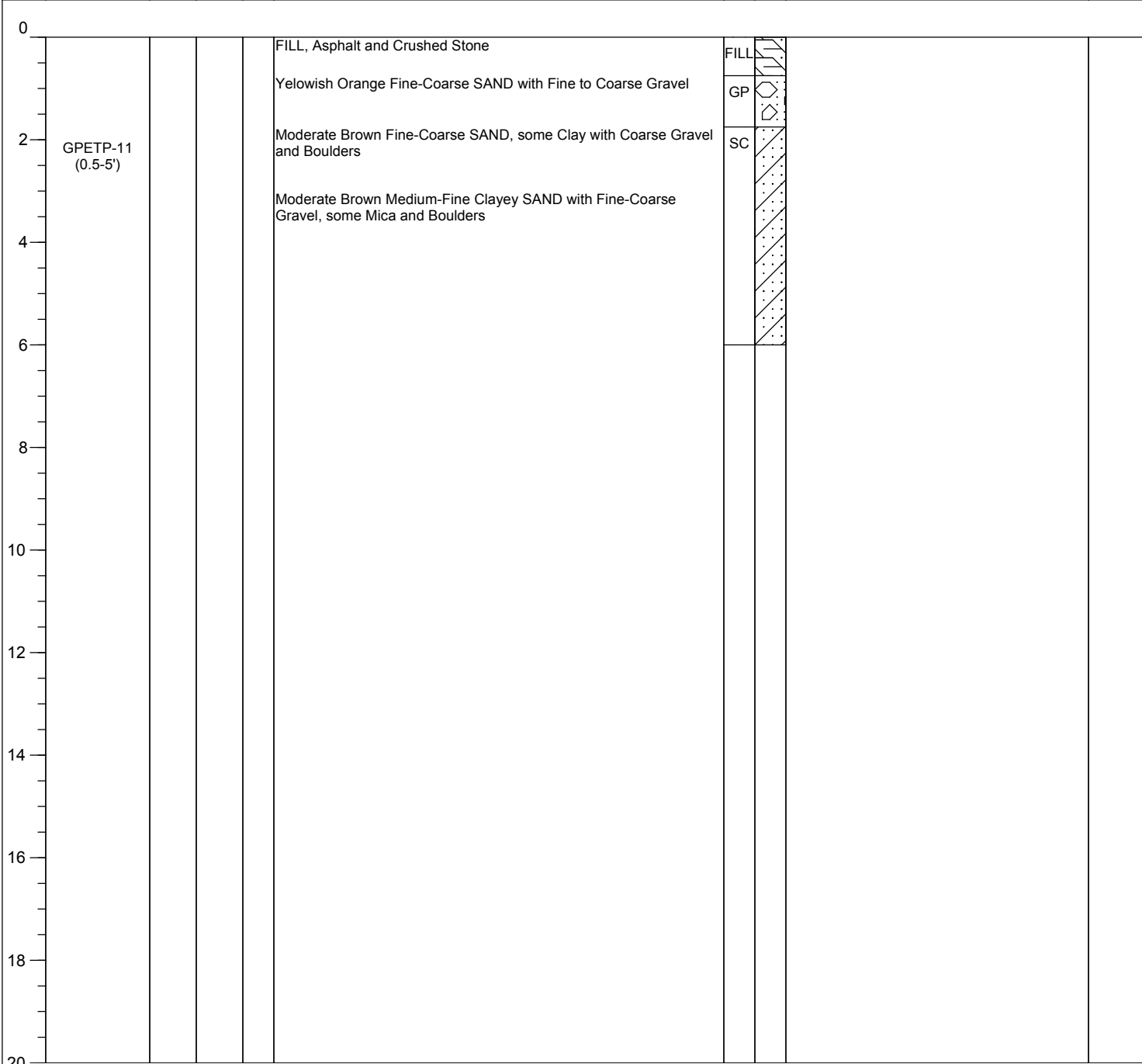
Paulus, Sokolowski & Sartor		TEST PIT LOG		TEST PIT NUMBER GPETP-12	
PROJECT NUMBER: 2522.033.024				WEATHER: Sunny, 64 Degrees F	
PROJECT NAME: Greenpoint Energy Center - Pipeline Test Pits				TOTAL DEPTH: 5 feet	
LOCATION: Brooklyn, New York				GROUND SURFACE ELEVATION: 00'	
EXCAVATION CO: Fenley & Nicol				DATE BEGUN: May 17, 2006	
EXCAVATION METHOD: VacTruck				DATE COMPLETED: May 17, 2006	
OPERATOR: Ashton A.					
ENVIRONMENTAL SCIENTIST: J. Diamond					

DEPTH	SAMPLE NUMBER	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
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Paulus, Sokolowski & Sartor		TEST PIT LOG		TEST PIT NUMBER GPETP-11	
PROJECT NUMBER: 2522.033.024				WEATHER: Sunny, 60 Degrees F	
PROJECT NAME: Greenpoint Energy Center - Pipeline Test Pits				TOTAL DEPTH: 6 feet	
LOCATION: Brooklyn, New York				GROUND SURFACE ELEVATION: 00'	
EXCAVATION CO: Fenley & Nicol				DATE BEGUN: May 22, 2006	
EXCAVATION METHOD: VacTruck				DATE COMPLETED: May 22, 2006	
OPERATOR: Ashton A.					
ENVIRONMENTAL SCIENTIST: J. Diamond					

DEPTH	SAMPLE NUMBER	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
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Paulus, Sokolowski & Sartor		TEST PIT LOG		TEST PIT NUMBER GPETP-10	
PROJECT NUMBER: 2522.033.024				WEATHER: Sunny, 64 Degrees F	
PROJECT NAME: Greenpoint Energy Center - Pipeline Test Pits				TOTAL DEPTH: 5 feet	
LOCATION: Brooklyn, New York				GROUND SURFACE ELEVATION: 00'	
EXCAVATION CO: Fenley & Nicol				DATE BEGUN: May 17, 2006	
EXCAVATION METHOD: VacTruck				DATE COMPLETED: May 17, 2006	
OPERATOR: Ashton A.					
ENVIRONMENTAL SCIENTIST: J. Diamond					

DEPTH	SAMPLE NUMBER	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
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0					FILL, Crushed Bluestone to Brown Silty Sand	FILL			
		0.0			Grayish Black/Yellow Brown Fine-Medium Silty SAND with Fine-Coarse Gravel	SM			
2	GPETP-10 (0-5')	0.0			Pale Yellow Brown Fine SAND	SP			
4		0.0			Dark Yellowish Brown Coarse to Fine SAND				
6									
8									
10									
12									
14									
16									
18									
20									

Paulus, Sokolowski & Sartor		TEST PIT LOG		TEST PIT NUMBER GPETP-13	
PROJECT NUMBER: 2522.033.024				WEATHER: Sunny, 60 Degrees F	
PROJECT NAME: Greenpoint Energy Center - Pipeline Test Pits				TOTAL DEPTH: 5 feet	
LOCATION: Brooklyn, New York				GROUND SURFACE ELEVATION: 00'	
EXCAVATION CO: Fenley & Nicol				DATE BEGUN: May 22, 2006	
EXCAVATION METHOD: VacTruck				DATE COMPLETED: May 22, 2006	
OPERATOR: Ashton A.					
ENVIRONMENTAL SCIENTIST: J. Diamond					

DEPTH	SAMPLE NUMBER	PID (ppm)	HCN (ppm)	WATER LEVEL	SOIL DESCRIPTION	USCS SYMBOL	LITHOLOGY	ENVIRONMENTAL DESCRIPTIONS	VISUAL OBSERVATIONS
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0					FILL, Bluestone				
		0.0			FILL, Dark Gray Silty Sand with Coarse Gravel				
		0.0			FILL, Brown Clayey Sand with Coarse Gravel, Bricks and Cobbles				
		0.0							
2	GPETP-13 (0.5-5')	0.1			Moderate Brown Fine-Coarse Clayey SAND with Fine-Coarse Gravel	SC			
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
									
20									



LI Office
40 Doyle Court
East Northport, NY 11731-6405
(631) 462-2226
FAX (631) 462-6434
www.islandpumpandtank.com

NY City Office
1381 Utica Avenue
Brooklyn, NY 11203
(718) 526-6525

November 13, 2017

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
One Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101

Attn: Mr. Hiralkumar Patel

Re: Tank Excavation Assessment Report
NYSDEC Spill # 1701762
The Brooklyn Union Gas Co. D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue
Brooklyn, New York 11211

Dear Mr. Patel,

Please find the enclosed *Tank Excavation Assessment Report* for the National Grid Green Point Energy Center located at 287 Maspeth Avenue, Brooklyn, New York. The attached report discusses the permanent removal of one 1,000-gallon diesel and one 4,000-gallon gasoline underground storage tanks (USTs) conducted in May 2017. Additionally, this report documents the findings of the associated dispenser islands and product piping removals, conducted in October 2017.

Should you have any questions or comments regarding this report, please contact either of the undersigned at (631) 462-2226.

Sincerely,

Island Pump & Tank

A handwritten signature in black ink, appearing to read 'M. K. Abbott', written over a horizontal line.

Matthew K. Abbott
Sr. Project Manager

A handwritten signature in black ink, appearing to read 'K. Guzzardo', written over a horizontal line.

Kristin Guzzardo
Project Geologist

Enclosure

Cc: Brittany Gaddy, Dvirka and Bartilucci Consulting Engineers (via e-mail)
Paul Fenley, Island Pump and Tank Corp. (via e-mail)

Tank Excavation Assessment Report

**The Brooklyn Union Gas Company
D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue
Brooklyn, New York 11211**

NYSDEC Spill # 1701762

November 13, 2017

Prepared for:

**The Brooklyn Union Gas Company
D/B/A National Grid
c/o
Ms. Brittany Gaddy
Dvirka and Bartilucci Consulting Engineers**

Prepared by:



**Island Pump & Tank Corp.
40 Doyle Court
East Northport, New York 11731**

Tank Excavation Assessment Report – NYSDEC Spill # 1701762

The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue

Brooklyn, New York 11211

November 2017

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Tank Excavation Assessment Report – NYSDEC Spill # 1701762

The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue

Brooklyn, New York 11211

November 2017

1.0 INTRODUCTION

Island Pump & Tank Corp. (IPT), on behalf of The Brooklyn Union Gas Company D/B/A National Grid (National Grid), has prepared this report summarizing environmental services provided during the permanent removal of one 1,000-gallon diesel underground storage tank (UST), one 4,000-gallon gasoline UST, dispensers, and all associated piping located at 287 Maspeth Avenue, in Brooklyn, New York. A Site Location Map has been provided as **Figure 1** and a Site Map depicting the location of the former UST systems has been provided as **Figure 2**. All activities associated with the UST removals were conducted by IPT's Construction Department with oversight by IPT's Environmental Services Department personnel. All activities were conducted in general accordance with the New York State Department of Environmental Conservation (NYSDEC) DER-10 Technical Guidance for Site Investigation & Remediation dated, May 3, 2010.

2.0 UNDERGROUND STORAGE TANK REMOVAL

On May 22, through May 24, 2017, IPT personnel were on-site to provide environmental oversight and to document the UST system closure activities. The UST systems closure activities included the removal of one 1,000-gallon diesel double-wall steel fiberglass reinforced plastic (FRP) coated UST and one 4,000-gallon gasoline double-walled steel FRP coated UST. Select photographs taken during the UST removal activities are provided in **Appendix A**.

2.1 Tank Excavation and Removal

Prior to the tank removals, IPT removed the materials covering the USTs. The USTs were then cleaned, and all residual tank sludges were removed by placed in drums and staged for off-site disposal. A total seven (7) 55-gallon drums of such residual sludges were disposed of by National Grid. Copies of the Non-Hazardous Waste Manifests will be submitted by National Grid under separate cover.

Following the removals of the USTs, a visual inspection was conducted and documented by IPT personnel, Ms. Brittany Gaddy of Dvirka and Bartilucci Engineering (D&B), and Mr. William Ryan of National Grid. The USTs were in very good condition with no signs of corrosion, holes, or pitting observed (**Table 1**). Select photographs depicting the UST removals are included in **Appendix A**. Upon completion of visual inspection, the USTs were loaded onto a truck for transport to an off-site disposal facility. A UST Removal Disposal Affidavit has been provided in **Appendix B**.

2.2 Tank Excavation Sampling Activities

Upon completion of the UST removals, samples were collected in general accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation & Remediation. Based upon the length of the USTs and the perimeter of the immediate excavation, a total of fourteen (14) soil samples were collected from the entire excavation. Ten (10) samples were collected along the sidewalls of the excavation at approximately 7-8 feet below grade surface (bgs) and were labeled as such: DSWS, DSWEN, DSWES, DSWWN, DSWWS, GSWN, GSWWS, GSWEN, GSWWN, and GSWES. Additionally, four (4) soil samples (GBS, GBN, DBS, & DBN) were collected after the bottom slab was removed from the excavation at approximately 12-13 feet bgs. The soil sample locations have been depicted on **Figure 3**.



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A portion of each collected soil sample was temporarily placed into a re-sealable plastic bag. After allowing proper time for headspace to gather, the samples were field screened for the presence of total volatile organic compounds (VOCs) utilizing a photo-ionization detector (PID). The PID was equipped with a 10.6 eV lamp and is calibrated daily utilizing ambient air and 100 parts per million (ppm) isobutylene span gas. PID concentrations ranged from 0.1 ppm at soil sample location GSWE to 10.4 ppm at soil sample location GBN. PID results have been summarized for all soil samples collected in **Table 2** and have been depicted on **Figure 3**.

During the excavation of fill material above the diesel tank, elevated PID readings were detected ranging from 100 to 150 ppm. Visual and olfactory staining were also observed within the excavation. At this time, the NYSDEC Spills Hotline was contacted, spill # 1701762, and Mr. Hiralkumar Patel as the Spill Case Manager were assigned to the site. Under the direction of the Mr. Patel, all impacted soils were to be removed to the best extent possible, placed on, and covered with polyethylene sheeting. The soil was to be removed and disposed of at an approved offsite waste disposal facility at a later date, by others.

Additionally, due to the intrusion of shallow groundwater at approximately 9 feet bgs within the excavation, IPT also collected a groundwater sample from the open excavation.

2.3 Tank Excavation Analytical Results

2.3.1 Soil Samples

The fourteen (14) soil samples collected during the UST removal activities were placed in laboratory-supplied glassware and submitted under chain of custody procedures to York Analytical Laboratories, Inc. (York) in Stratford, CT for analysis of VOCs CP-51 List via EPA Method 8260C and, in some cases where the samples were collected near the diesel UST, Semi-Volatile Organic Compounds (SVOCs) CP-51 List via EPA Method 8270D. Upon receipt, the analytical data was compared to the NYSDEC CP-51 Soil Cleanup Objectives (SCOs).

2.3.1.1 Volatile Organic Compounds

Based upon the laboratory analytical results, VOC concentrations for five (5) sample locations were detected below their respective NYSDEC CP-51 SCOs. Additionally, eight (8) sample locations were identified to be below their respective laboratory method detection limits (ND). One (1) sample, GBN, was determined to have one (1) targeted VOC compound detected above its respective guidance value. The exceedance is listed in detail below:

- Benzene @ 250 µg/kg / NYSDEC CP-51 SCO of 60 micrograms per kilogram (µg/kg)

All remaining VOC concentrations were detected below their respective guidance values for this particular sample. Laboratory analytical results have been summarized in **Table 3**. VOC concentrations have been depicted on the UST Removal Soil Analytical Data Map provided on **Figure 3**. Copies of the chain of custody and laboratory analytical report have been provided in **Appendix C**.

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2.3.1.2 Semi-Volatile Organic Compounds

Based upon the laboratory analytical results, SVOC concentrations for one (1) sample location, DWSEN, were detected below their respective NYSDEC CP-51 SCO. Multiple samples were determined to have several targeted SVOC compounds detected above their respective guidance values. The exceedances are listed in detail below:

DSWS

- Benzo(a)anthracene @ 5,100 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(a)pyrene @ 10,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(b)fluoranthene @ 4,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(k)fluoranthene @ 1,900 µg/kg / NYSDEC CP-51 SCO of 800 µg/kg
- Chrysene @ 5,400 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Dibenzo(a,h)anthracene @ 800 µg/kg / NYSDEC CP-51 SCO of 330 µg/kg
- Indeno(1,2,3-cd)pyrene @ 1,400 µg/kg / NYSDEC CP-51 SCO of 500 µg/kg

DSWES

- Benzo(a)anthracene @ 23,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(a)pyrene @ 42,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(b)fluoranthene @ 16,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(k)fluoranthene @ 17,000 µg/kg / NYSDEC CP-51 SCO of 800 µg/kg
- Chrysene @ 25,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Dibenzo(a,h)anthracene @ 1,300 µg/kg / NYSDEC CP-51 SCO of 330 µg/kg
- Indeno(1,2,3-cd)pyrene @ 2,100 µg/kg / NYSDEC CP-51 SCO of 500 µg/kg

DSWWN

- Benzo(a)anthracene @ 15,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(a)pyrene @ 24,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(b)fluoranthene @ 9,200 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(k)fluoranthene @ 9,700 µg/kg / NYSDEC CP-51 SCO of 800 µg/kg
- Chrysene @ 16,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Dibenzo(a,h)anthracene @ 1,300 µg/kg / NYSDEC CP-51 SCO of 330 µg/kg
- Indeno(1,2,3-cd)pyrene @ 2,000 µg/kg / NYSDEC CP-51 SCO of 500 µg/kg

DSWWS

- Benzo(a)anthracene @ 2,000 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(a)pyrene @ 4,600 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(b)fluoranthene @ 1,800 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(k)fluoranthene @ 1,300 µg/kg / NYSDEC CP-51 SCO of 800 µg/kg
- Chrysene @ 2,100 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Dibenzo(a,h)anthracene @ 390 µg/kg / NYSDEC CP-51 SCO of 330 µg/kg
- Indeno(1,2,3-cd)pyrene @ 770 µg/kg / NYSDEC CP-51 SCO of 500 µg/kg

DBN

- Chrysene @ 1,000 µg/kg / NYSDEC CP-51 SCO of 1,000µg/kg

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DBS

- Benzo(a)anthracene @ 8,200 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(a)pyrene @ 6,900 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(b)fluoranthene @ 4,800 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Benzo(k)fluoranthene @ 6,200 µg/kg / NYSDEC CP-51 SCO of 800 µg/kg
- Chrysene @ 8,900 µg/kg / NYSDEC CP-51 SCO of 1,000 µg/kg
- Dibenzo(a,h)anthracene @ 1,200 µg/kg / NYSDEC CP-51 SCO of 330 µg/kg
- Indeno(1,2,3-cd)pyrene @ 2,400 µg/kg / NYSDEC CP-51 SCO of 500 µg/kg

All remaining SVOC concentrations were detected below their respective guidance values for these samples. Laboratory analytical results have been summarized in **Table 4**. SVOC concentrations have been depicted on the UST Removal Soil Analytical Data Map provided on **Figure 4**. Copies of the chain of custody and laboratory analytical report have been provided in **Appendix C**.

2.3.2 Groundwater Sample

The collected groundwater sample was placed in laboratory-supplied glassware and submitted under chain of custody procedures to York for analysis of VOCs CP-51 List via EPA Method 8260C and SVOCs CP-51 List via EPA Method 8270D. Upon receipt, the analytical data was compared to the NYSDEC TOGS 1.1.1- Ambient Water Quality Standards & Guidance Values (GWGS).

2.3.2.1 Volatile Organic Compounds

Based upon the laboratory analytical results for the collected sample, Groundwater, indicated that two (2) VOC concentrations were determined to be above their respective NYSDEC GWGS values. The exceedances are listed in detail below:

- Naphthalene @ 1,500 µg/L / NYSDEC GWGS of 10 µg/L
- MTBE @ 23 µg/L / NYSDEC GWGS of 10 µg/L

All remaining VOC concentrations were detected below their respective guidance values for this sample. Laboratory analytical results have been summarized in **Table 5**. VOC concentrations have been depicted on the UST Removal Groundwater Analytical Data Map provided on **Figure 5**. Copies of the chain of custody and laboratory analytical report have been provided in **Appendix C**.

2.3.2.2 Semi-Volatile Organic Compounds

Based upon the laboratory analytical results for the collected sample, Groundwater, indicated that several SVOC concentrations were determined to be above their respective NYSDEC GWGS values. The exceedances are listed in detail below:

- Benzo(a)anthracene @ 0.34 µg/L / NYSDEC GWGS of 0.002 µg/L
- Benzo(k)anthracene @ 0.32 µg/L / NYSDEC GWGS of 0.002 µg/L
- Chrysene @ 0.37 µg/L / NYSDEC GWGS of 0.002 µg/L
- Indeno(1,2,3-cd)pyrene @ 0.24 µg/L / NYSDEC GWGS of 0.002 µg/L
- Naphthalene @ 590 µg/L / NYSDEC GWGS of 10 µg/L

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All remaining SVOC concentrations were detected below their respective guidance values for this sample. Laboratory analytical results have been summarized in **Table 6**. SVOC concentrations have been depicted on the UST Removal Groundwater Analytical Data Map provided on **Figure 6**. Copies of the chain of custody and laboratory analytical report have been provided in **Appendix C**.

3.0 DISPENSER ISLAND AND PRODUCT PIPING REMOVAL

In October 2017, IPT personnel were on-site to provide environmental oversight and to document the removal of the respective product piping and Dispenser Island associated with previous UST system closures (performed in May 2017). Select photographs taken during the UST removals and associated activities are provided in **Appendix A**.

3.1 Product Piping Removal

Subsequent to the removal of the USTs, the materials covering the product lines and dispenser areas were removed. A total of two (2) dispensers and all respective product piping were removed. Accordingly, a visual inspection was conducted and documented by IPT personnel. The removed product piping was in very good condition with no evidence of corrosion, holes, or pitting observed. Select photographs depicting the product piping removal are included in **Appendix A**. Upon completion of the visual inspection, the piping was placed into a truck for transport to an off-site disposal facility.

3.2 Dispenser Islands and Product Piping Sampling Activities

Upon completion of the dispensers and product piping removal, soil samples were collected in general accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation & Remediation. Based upon the length of the product piping lines and the number of dispensers, a total of five (5) samples were collected. Two (2) samples were collected from beneath each dispenser at approximately 5 feet bgs and were labeled as such: Sample 1 and Sample 2. Additionally, three (3) soil samples were collected from beneath the former piping location at approximately 4 feet bgs and were labeled as such: Sample 3, Sample 4, and Sample 5. The soil sample locations have been depicted on **Figure 3**.

A portion of each collected soil sample was temporarily placed into a re-sealable plastic bag. After allowing proper time for headspace to gather, the samples were field screened for the presence of total VOCs utilizing a PID. The PID was equipped with a 10.6 eV lamp and is calibrated daily utilizing ambient air and 100 ppm isobutylene span gas. PID concentrations ranged from 0.0 ppm at soil sample locations Sample 3 & Sample 4 to 1.8 ppm at soil sample location Sample 2. PID results have been summarized for all soil samples collected in **Table 2** and have been depicted on **Figure 3**.

3.3 Dispenser Islands and Product Piping Analytical Results

3.3.1 Soil Samples

The five (5) collected soil samples from beneath the dispensers and product piping areas were placed in laboratory-supplied glassware and submitted under chain of custody procedures to York for analysis. Each of the five (5) soil samples were sampled for the presence of VOCs CP-51 List via EPA Method

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8260C; however, only two (2) samples, Sample 2 and Sample 4, were also sampled for the presence of SVOCs CP-51 List via EPA Method 8270D. Upon receipt, the analytical data was compared to the NYSDEC CP-51 SCOs.

3.3.1.1 Volatile Organic Compounds

Based upon the laboratory analytical results, total detected VOC concentrations ranged from ND at soil sample locations Sample 2, Sample 4, and Sample 5, to 17.3 micrograms per kilogram ($\mu\text{g/kg}$) at soil sample location Sample 3. All detected VOC concentrations were below their respective SCO's. Laboratory analytical results have been summarized in **Table 3**. VOC concentrations have been depicted on the UST Removal Soil Analytical Data Map provided on **Figure 3**. Copies of the chain of custody and laboratory analytical report have been provided in **Appendix C**.

3.3.1.2 Semi-Volatile Organic Compounds

Based upon the laboratory analytical results for the collected sample indicated that of the two (2) collected samples, Sample 2 and Sample 4, both contained SVOC concentrations that were determined to be above their respective NYSDEC CP-51 SCOs. The exceedances are listed in detail below:

Sample 2

- Benzo(a)anthracene @ 1,900 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Benzo(a)pyrene @ 2,000 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Benzo(b)fluoranthene @ 1,900 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Benzo(k)fluoranthene @ 1,800 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 800 $\mu\text{g/kg}$
- Chrysene @ 1,900 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Dibenzo(a,h)anthracene @ 530 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 330 $\mu\text{g/kg}$
- Indeno(1,2,3-cd)pyrene @ 1,200 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 500 $\mu\text{g/kg}$

Sample 4

- Benzo(a)anthracene @ 14,000 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Benzo(a)pyrene @ 15,000 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Benzo(b)fluoranthene @ 12,000 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Benzo(k)fluoranthene @ 12,000 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 800 $\mu\text{g/kg}$
- Chrysene @ 14,000 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 1,000 $\mu\text{g/kg}$
- Dibenzo(a,h)anthracene @ 2,400 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 330 $\mu\text{g/kg}$
- Indeno(1,2,3-cd)pyrene @ 7,300 $\mu\text{g/kg}$ / NYSDEC CP-51 SCO of 500 $\mu\text{g/kg}$

All remaining SVOC concentrations were detected below their respective SCOs. SVOC concentrations have been depicted on the UST Removal Soil Analytical Data Map provided on **Figure 6**. Copies of the chain of custody and laboratory analytical report have been provided in **Appendix C**.

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The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue

Brooklyn, New York 11211

November 2017

4.0 SUMMARY

On May 22 through 24, 2017, and additionally on October 17, 2017, IPT, on behalf of National Grid, IPT provided environmental oversight during the removal of the UST system located at 287 Maspeth Avenue, in Brooklyn, New York. The UST removal activities are summarized below:

- Two double-walled steel FRP coated USTs were removed from the above referenced property; one 1,000-gallon diesel UST and one 4,000-gallon gasoline UST. Approximately seven 55-gallon drums of residual tank sludges were generated during the removal and cleaning of the USTs. All waste removal for this project was coordinated by others. As such, the disposal documentation for these drums of waste, as well as the suspected hydrocarbon impacted soils stockpiled during the project, are to be submitted by National Grid (or their representative) under separate cover.
- Following the UST removal activities, fourteen (14) soil samples were collected from within the former UST excavation. Sample GBN exhibited a concentration of benzene in exceedance of its respective NYSDEC CP-51 SCO. Additionally, a total of six (6) samples contained multiple SVOC concentrations in exceedance of their respective NYSDEC CP-SCOs.
- A groundwater sample was collected from the base of the former UST excavation. The groundwater sample exhibited multiple VOC and SVOC concentrations in exceedance of their respective NYSDEC GWGS.
- Following the product piping, vent piping, and dispenser island removal activities, five (5) soil samples were collected from those respective areas. All VOC concentrations were determined to be below their respective SCO's limits. However, the two (2) samples analyzed via EPA Method 8270, Sample 2 and Sample 4, exhibited concentrations of several SVOCs above their respective SCOs.

Tank Excavation Assessment Report – NYSDEC Spill # 1701762

The Brooklyn Union Gas Co. D/B/A National Grid

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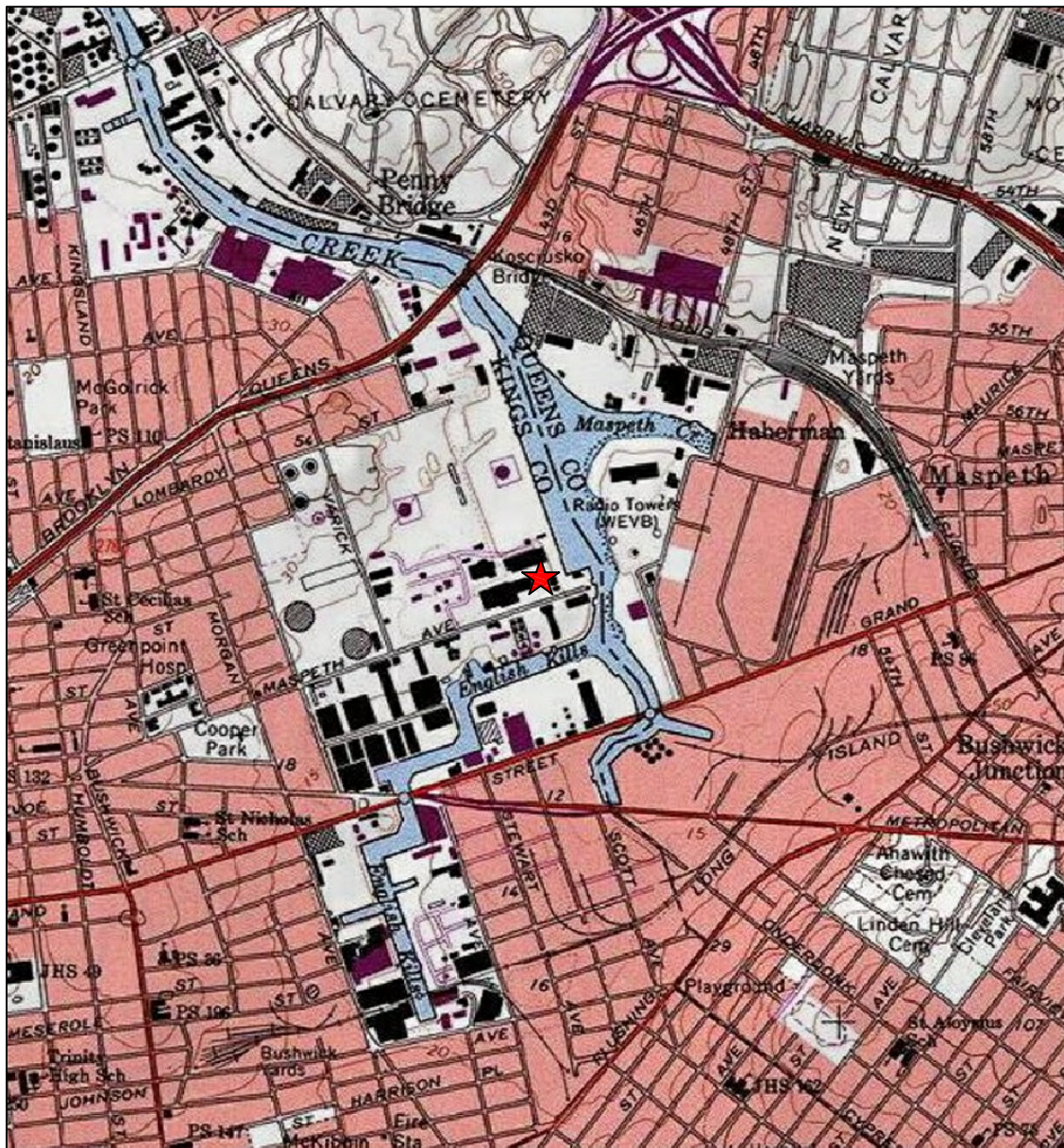
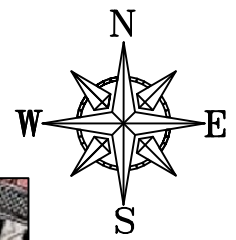
287 Maspeth Avenue

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FIGURES





★ = SITE LOCATION



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(718) 526-6525

FIGURE 1

SITE LOCATION MAP

NATIONAL GRID
287 MASPETH AVENUE
BROOKLYN, NY 11211

SCALE: N.T.S.

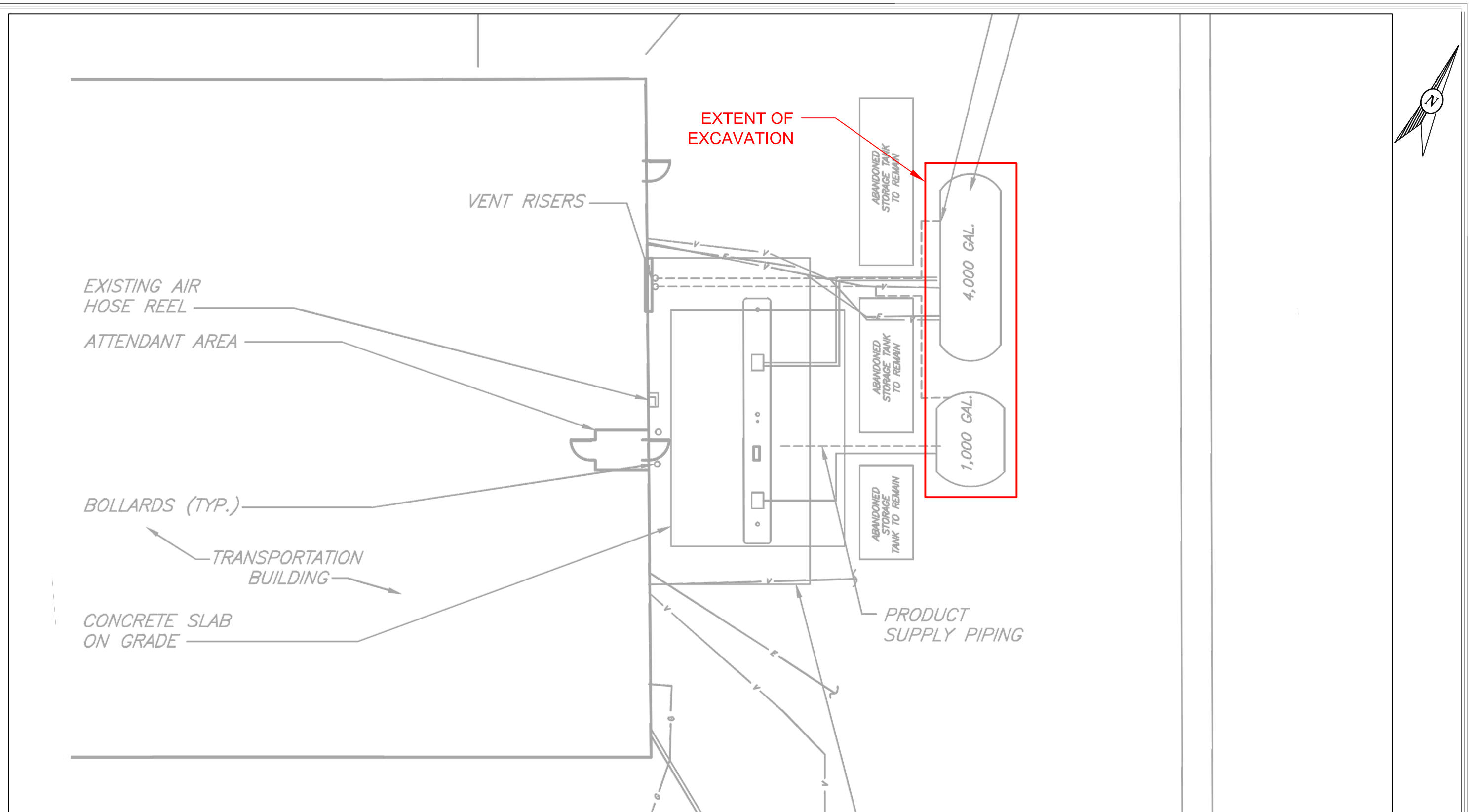
PROJECT MGR: M.A.

JOB #:

DATE: 11/8/17

DRAWN BY: Z.B.

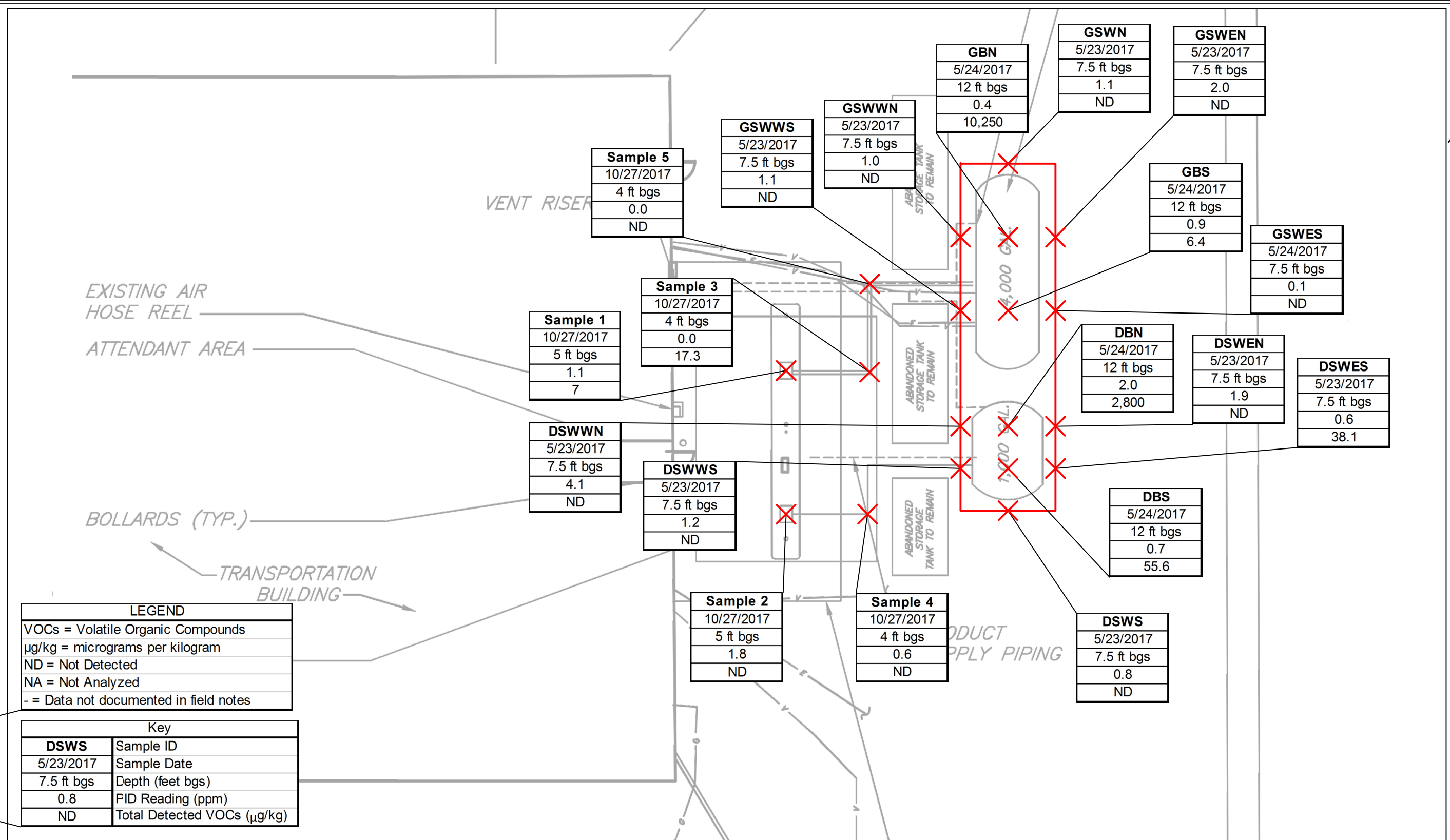
FILE NAME:



		LI OFFICE 40 Doyle Court East Northport, NY 11731 (631) 462 2226		NYC OFFICE 1381 Utica Ave. Brooklyn, NY 11203 (718) 526-6525	
		www.IslandPumpandTank.com			
SCALE:	N.T.S.	PROJECT MGR:	M.A.	JOB #:	
DATE:	11/8/17	DRAWN BY:	Z.B.	FILE NAME:	

FIGURE 2
SITE PLAN

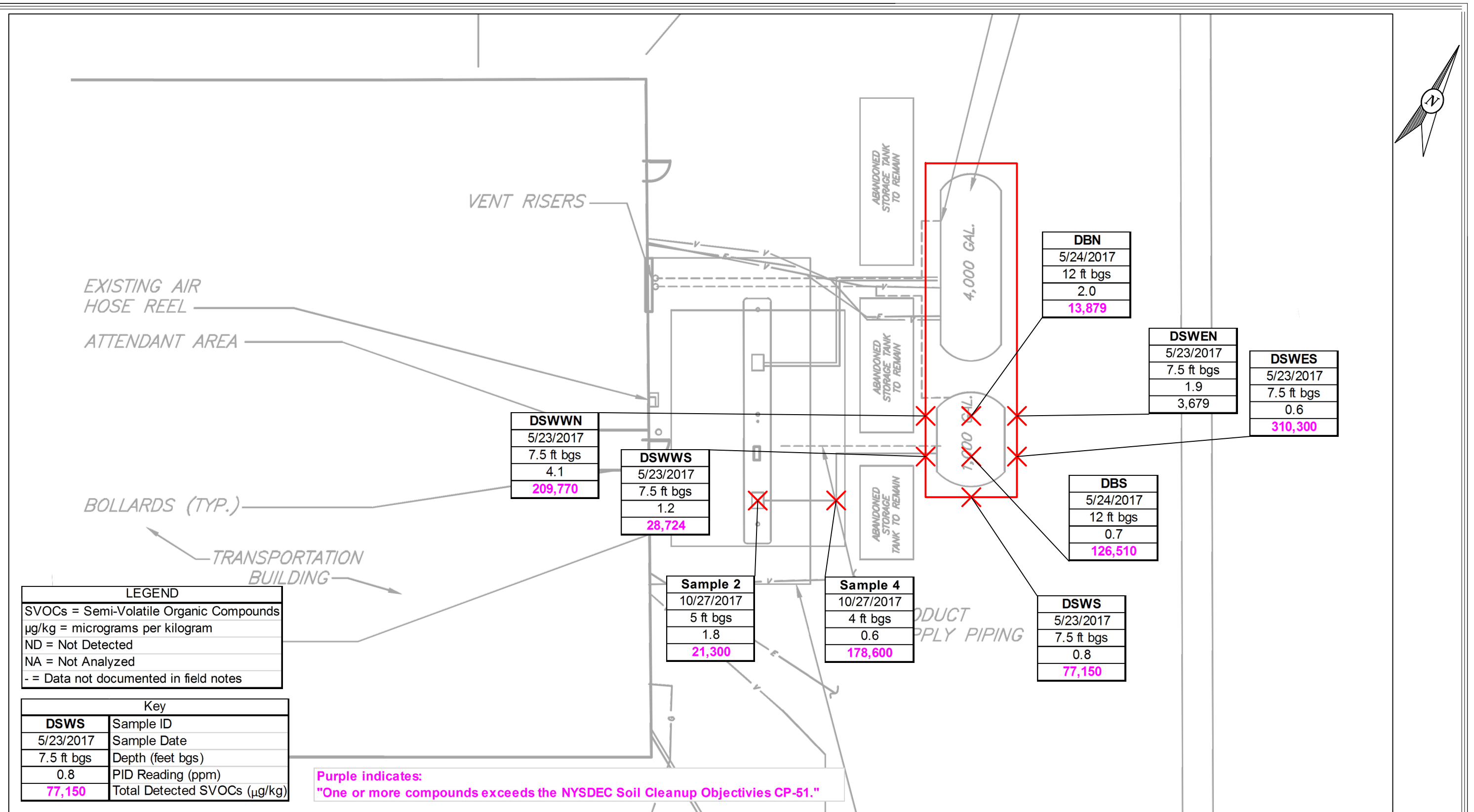
NATIONAL GRID
287 MASPETH AVENUE
BROOKLYN, NY 11211



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FIGURE 3
SOIL ANALYTICAL DATA MAP:
VOCs

NATIONAL GRID
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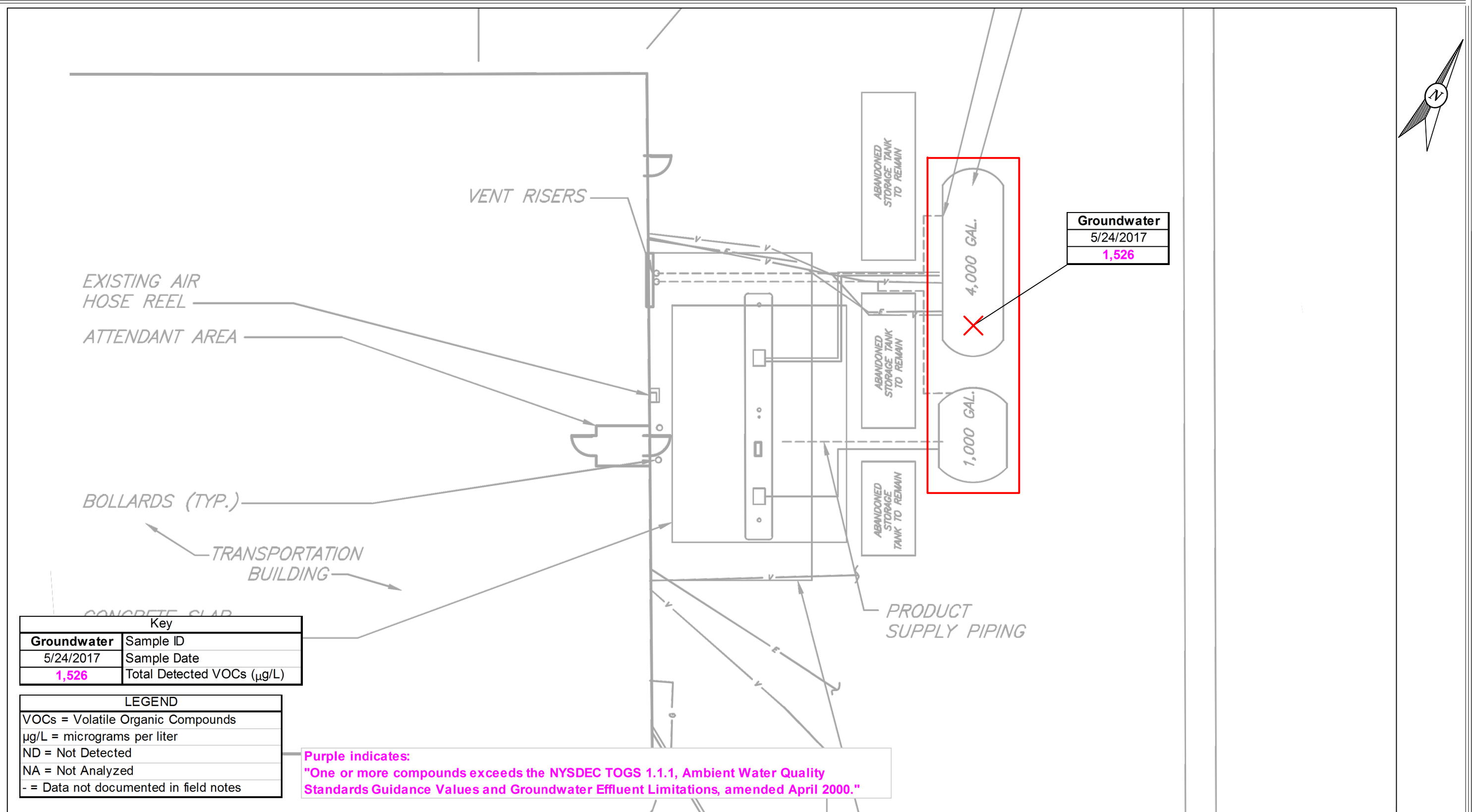
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DATE: 11/8/17	DRAWN BY: Z.B.	FILE NAME:

FIGURE 4
SOIL ANALYTICAL DATA MAP:
SVOCs

NATIONAL GRID
287 MASPETH AVENUE
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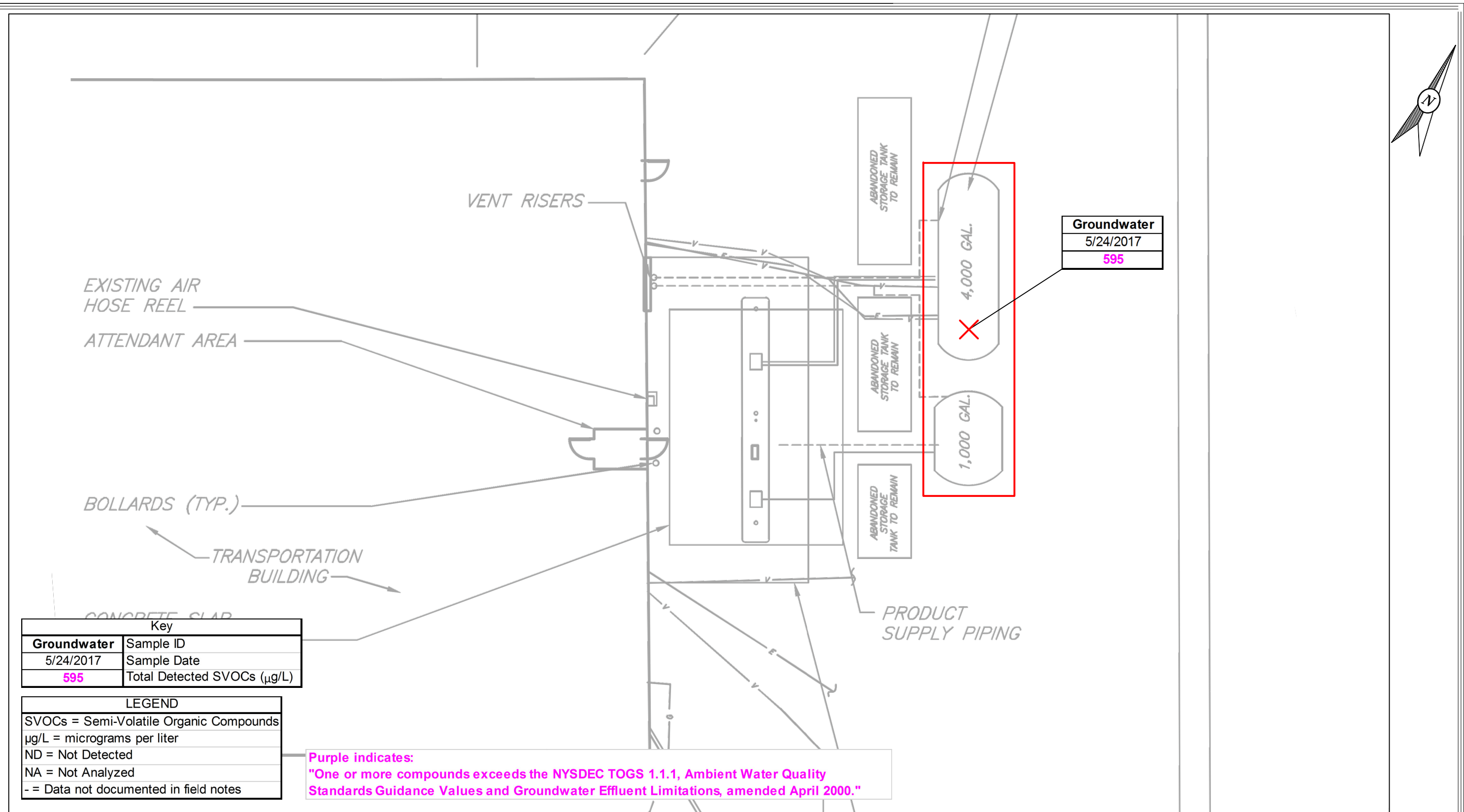
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DATE: 11/8/17	DRAWN BY: Z.B.	FILE NAME:

FIGURE 5
GROUNDWATER ANALYTICAL
DATA MAP: VOCs

NATIONAL GRID
287 MASPETH AVENUE
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DATE: 11/8/17	DRAWN BY: Z.B.	FILE NAME:

FIGURE 6
GROUNDWATER ANALYTICAL
DATA MAP: SVOCs

NATIONAL GRID
287 MASPETH AVENUE
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Greenpoint Energy Center

287 Maspeth Avenue

Brooklyn, New York 11211

November 2017

TABLES



Table 1

**SUMMARY OF REMOVED TANKS
(MAY 2017)**

The Brooklyn Union Gas Company D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue
Brooklyn, New York 11211

Tank #	Size (Gallons)	Construction	Product	Condition
1	4,000	Double-Walled Steel Coated with Fiberglass Re-Inforced Plastic	Gasoline	No evidence of erosion, pitting, and/or cracks.
2	1,000	Double-Walled Steel Coated with Fiberglass Re-Inforced Plastic	Diesel	No evidence of erosion, pitting, and/or cracks.



Table 2

SUMMARY OF PID READINGS

The Brooklyn Union Gas Company D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, New York 11211

Soil Sample ID #	Sampling/Screening Date	Sample Location (Depth)	PID Reading (ppm)	Submitted for Laboratory Analysis
UST Removal				
S	05/22/17	South Sidewall of UST Excavation (8 feet bgs)	0.0	No
GSWEN		Gasoline Tank East Sidewall - North (7 feet bgs)	0.4	No
GSWES		Gasoline Tank East Sidewall - South (7 feet bgs)	0.2	No
DSWE		Diesel Tank East Sidewall (7 feet bgs)	0.3	No
DSWS	05/23/17	Diesel Tank South Sidewall (7 feet bgs)	0.8	Yes
DSWEN		Diesel Tank East Sidewall - North (7.5 feet bgs)	1.9	Yes
DSWES		Diesel Tank East Sidewall - South (7.5 feet bgs)	0.6	Yes
DSWWN		Diesel Tank West Sidewall - North (7.5 feet bgs)	4.5	Yes
DSWWS		Diesel Tank West Sidewall - South (7.5 feet bgs)	1.2	Yes
GSWN		Gasoline Tank North Sidewall (7.5 feet bgs)	1.1	Yes
GSWWS		Gasoline Tank West Sidewall - South (7.5 feet bgs)	1.1	Yes
GSWEN		Gasoline Tank East Sidewall - North (7.5 feet bgs)	2.0	Yes
GSWWN		Gasoline Tank West Sidewall - North (7.5 feet bgs)	1.0	Yes

Table 2

SUMMARY OF PID READINGS

The Brooklyn Union Gas Company D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, New York 11211

Soil Sample ID #	Sampling/Screening Date	Sample Location (Depth)	PID Reading (ppm)	Submitted for Laboratory Analysis
UST Removal				
GSWES	05/24/17	Gasoline Tank East Sidewall - South (7.5 feet bgs)	0.1	Yes
GBS		Gasoline Tank Bottom - South (12 feet bgs)	0.7	Yes
GBN		Gasoline Tank Bottom - North (12 feet bgs)	10.4	Yes
DBS		Diesel Tank Bottom - South (12 feet bgs)	0.9	Yes
DBN		Diesel Tank Bottom - North (12 feet bgs)	0.4	Yes
Piping Removal				
Sample 1	10/17/17	Gasoline Dispenser (5 feet bgs)	1.1	Yes
Sample 2		Diesel Dispenser (5 feet bgs)	1.8	Yes
Sample 3		Gasoline Piping (4 feet bgs)	0.0	Yes
Sample 4		Diesel Piping (4 feet bgs)	0.6	Yes
Sample 5		Gasoline Piping (4 feet bgs)	0.0	Yes

Notes:

bgs = Below ground surface
 PID = Photoionization detector
 ppm = Parts per million
 N/A = Not applicable



Table 3

SOIL ANALYTICAL DATA - VOCs CP-51 LIST

The Brooklyn Union Gas Company D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, New York 11211

Compound	NYSDEC CP-51 SCOs*	Sample ID (sample depth)				
		DSWS (7.5 feet bgs)	DSWEN (7.5 feet bgs)	DSWES (7.5 feet bgs)	DSWWN (7.5 feet bgs)	DSWWS (7.5 feet bgs)
Date		05/23/17				
Laboratory Analytical Method		EPA Method 8260C				
Benzene (µg/kg)	60	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
Toluene (µg/kg)	700	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
Ethylbenzene (µg/kg)	1,000	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
Xylenes, total (µg/kg)	260	ND<7.6	ND<8.0	ND<6.1	ND<7.7	ND<6.4
Isopropylbenzene (µg/kg)	2,300	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
Naphthalene (µg/kg)	12,000	ND<2.5	ND<2.7	33	4.8	ND<2.1
1,2,4-Trimethylbenzene (µg/kg)	3,600	ND<2.5	ND<2.7	3.1	ND<2.6	ND<2.1
1,3,5-Trimethylbenzene (µg/kg)	8,400	ND<2.5	ND<2.7	2.0	ND<2.6	ND<2.1
n-Butylbenzene (µg/kg)	12,000	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
n-Propylbenzene (µg/kg)	3,900	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
p-Isopropyltoluene (µg/kg)	10,000	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
sec-Butylbenzene (µg/kg)	11,000	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
tert-Butylbenzene (µg/kg)	5,900	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
MTBE (µg/kg)	930	ND<2.5	ND<2.7	ND<2.0	ND<2.6	ND<2.1
Total VOCs (µg/kg)	NS	ND	ND	38	4.8	ND

Notes:

- * = NYSDEC Soil Cleanup Objectives CP-51, effective 10/21/10
- <# = Less than the method detection limit of #
- MTBE = Methyl tertiary butyl ether
- VOCs = Volatile Organic Compounds
- µg/kg = Micrograms/kilogram
- ND = Not Detected (# is method detection limit)
- NS = No Standard
- bgs = Below ground surface
- Bold** = Numbers in **Bold** exceed the CP-51 SCOs



Table 3

SOIL ANALYTICAL DATA - VOCs CP-51 LIST

The Brooklyn Union Gas Company D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, New York 11211

Compound	NYSDEC CP-51 SCOs*	Sample ID (sample depth)			
		GSWN (7.5 feet bgs)	GSWEN (7.5 feet bgs)	GSWWN (7.5 feet bgs)	GSWWS (7.5 feet bgs)
Date		05/23/17			
Laboratory Analytical Method		EPA Method 8260C			
Benzene (µg/kg)	60	ND<2.9	ND<2.9	ND<2.9	ND<2.6
Toluene (µg/kg)	700	ND<2.9	ND<2.9	ND<2.9	ND<2.6
Ethylbenzene (µg/kg)	1,000	ND<2.9	ND<2.9	ND<2.9	ND<2.6
Xylenes, total (µg/kg)	260	ND<8.7	ND<8.6	ND<8.8	ND<7.9
Isopropylbenzene (µg/kg)	2,300	ND<2.9	ND<2.9	ND<2.9	ND<2.6
Naphthalene (µg/kg)	12,000	ND<2.9	ND<2.9	ND<2.9	ND<2.6
1,2,4-Trimethylbenzene (µg/kg)	3,600	ND<2.9	ND<2.9	ND<2.9	ND<2.6
1,3,5-Trimethylbenzene (µg/kg)	8,400	ND<2.9	ND<2.9	ND<2.9	ND<2.6
n-Butylbenzene (µg/kg)	12,000	ND<2.9	ND<2.9	ND<2.9	ND<2.6
n-Propylbenzene (µg/kg)	3,900	ND<2.9	ND<2.9	ND<2.9	ND<2.6
p-Isopropyltoluene (µg/kg)	10,000	ND<2.9	ND<2.9	ND<2.9	ND<2.6
sec-Butylbenzene (µg/kg)	11,000	ND<2.9	ND<2.9	ND<2.9	ND<2.6
tert-Butylbenzene (µg/kg)	5,900	ND<2.9	ND<2.9	ND<2.9	ND<2.6
MTBE (µg/kg)	930	ND<2.9	ND<2.9	ND<2.9	ND<2.6
Total VOCs (µg/kg)	NS	ND	ND	ND	ND

Notes:

- * = NYSDEC Soil Cleanup Objectives CP-51, effective 10/21/10
- <# = Less than the method detection limit of #
- MTBE = Methyl tertiary butyl ether
- VOCs = Volatile Organic Compounds
- µg/kg = Micrograms/kilogram
- ND = Not Detected (# is method detection limit)
- NS = No Standard
- bgs = Below ground surface
- Bold** = Numbers in **Bold** exceed the CP-51 SCOs

Table 3

SOIL ANALYTICAL DATA - VOCs CP-51 LIST

The Brooklyn Union Gas Company D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, New York 11211

Compound	NYSDEC CP-51 SCOs*	Sample ID (sample depth)				
		GSWES (7.5 feet bgs)	DBN (12 feet bgs)	DBS (12 feet bgs)	GBN (12 feet bgs)	GBS (12 feet bgs)
Date		05/24/17				
Laboratory Analytical Method		EPA Method 8260C				
Benzene (µg/kg)	60	ND<2.4	ND<210	6.6	250	ND<1.8
Toluene (µg/kg)	700	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
Ethylbenzene (µg/kg)	1,000	ND<2.4	ND<210	3.2	ND<160	ND<1.8
Xylenes, total (µg/kg)	260	ND<7.1	ND<620	ND<5.7	ND<490	ND<1.8
Isopropylbenzene (µg/kg)	2,300	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
Naphthalene (µg/kg)	12,000	ND<2.4	2,800	37	10,000	ND<5.4
1,2,4-Trimethylbenzene (µg/kg)	3,600	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
1,3,5-Trimethylbenzene (µg/kg)	8,400	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
n-Butylbenzene (µg/kg)	12,000	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
n-Propylbenzene (µg/kg)	3,900	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
p-Isopropyltoluene (µg/kg)	10,000	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
sec-Butylbenzene (µg/kg)	11,000	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
tert-Butylbenzene (µg/kg)	5,900	ND<2.4	ND<210	ND<1.9	ND<160	ND<1.8
MTBE (µg/kg)	930	ND<2.4	ND<210	8.8	ND<160	6.4
Total VOCs (µg/kg)	NS	ND	2,800	56	10,250	6.4

Notes:

- * = NYSDEC Soil Cleanup Objectives CP-51, effective 10/21/10
- <# = Less than the method detection limit of #
- MTBE = Methyl tertiary butyl ether
- VOCs = Volatile Organic Compounds
- µg/kg = Micrograms/kilogram
- ND = Not Detected (# is method detection limit)
- NS = No Standard
- bgs = Below ground surface
- Bold** = Numbers in **Bold** exceed the CP-51 SCOs



Table 3

SOIL ANALYTICAL DATA - VOCs CP-51 LIST

The Brooklyn Union Gas Company D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, New York 11211

Compound	NYSDEC CP-51 SCOs*	Sample ID (sample depth)				
		Sample 1 (5 feet bgs)	Sample 2 (5 feet bgs)	Sample 3 (4 feet bgs)	Sample 4 (4 feet bgs)	Sample 5 (4 feet bgs)
Date		10/17/17				
Laboratory Analytical Method		EPA Method 8260C				
Benzene (µg/kg)	60	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
Toluene (µg/kg)	700	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
Ethylbenzene (µg/kg)	1,000	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
Xylenes, total (µg/kg)	260	ND<7.7	ND<7.1	10	ND<8.0	ND<7.5
Isopropylbenzene (µg/kg)	2,300	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
Naphthalene (µg/kg)	12,000	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
1,2,4-Trimethylbenzene (µg/kg)	3,600	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
1,3,5-Trimethylbenzene (µg/kg)	8,400	2.7	ND<2.4	7.3	ND<2.7	ND<2.5
n-Butylbenzene (µg/kg)	12,000	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
n-Propylbenzene (µg/kg)	3,900	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
p-Isopropyltoluene (µg/kg)	10,000	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
sec-Butylbenzene (µg/kg)	11,000	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
tert-Butylbenzene (µg/kg)	5,900	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
MTBE (µg/kg)	930	ND<2.6	ND<2.4	ND<2.7	ND<2.7	ND<2.5
Total VOCs (µg/kg)	NS	2.7	ND	17	ND	ND

Notes:

- * = NYSDEC Soil Cleanup Objectives CP-51, effective 10/21/10
- <# = Less than the method detection limit of #
- MTBE = Methyl tertiary butyl ether
- VOCs = Volatile Organic Compounds
- µg/kg = Micrograms/kilogram
- ND = Not Detected (# is method detection limit)
- NS = No Standard
- bgs = Below ground surface
- Bold** = Numbers in **Bold** exceed the CP-51 SCOs



Table 4

SOIL ANALYTICAL DATA- SVOCs

The Brooklyn Union Gas Co. D/B/A National Grid
287 Maspeth Avenue
Brooklyn, New York 11211

Compound	NYSDEC SCO CP-51*	Sample ID (Sample Depth)						
		DSWS (7.5 feet bgs)	DWSEN (7.5 feet bgs)	DSWES (7.5 feet bgs)	DSWWN (7.5 feet bgs)	DSWWS (7.5 feet bgs)	DBN (12 feet bgs)	DBS (12 feet bgs)
Date		05/23/17						
Laboratory Analytical Method		EPA Method 8270D						
Acenaphthene (µg/kg)	20,000	1,400	ND<49	7,800	6,100	420	230	2,600
Acenaphthylene (µg/kg)	100,000	450	85	900	770	250	69	710
Anthracene (µg/kg)	100,000	2,500	99	13,000	8,200	770	480	4,200
Benzo(a)anthracene (µg/kg)	1,000	5,100	260	23,000	15,000	2,000	960	8,200
Benzo(a)pyrene (µg/kg)	1,000	10,000	650	42,000	24,000	4,600	840	6,900
Benzo(b)fluoranthene (µg/kg)	1,000	4,000	280	16,000	9,200	1,800	560	4,800
Benzo(g,h,i)perylene (µg/kg)	100,000	1,300	170	1,800	1,700	750	310	2,300
Benzo(k)fluoranthene (µg/kg)	800	1,900	280	17,000	9,700	1,300	720	6,200
Chrysene (µg/kg)	1,000	5,400	300	25,000	16,000	2,100	1,000	8,900
Dibenzo(a,h)anthracene (µg/kg)	330	800	75	1,300	1,300	390	120	1,200
Fluoranthene (µg/kg)	100,000	14,000	580	59,000	46,000	5,200	2,500	26,000
Fluorene (µg/kg)	30,000	1,500	ND<49	7,900	4,400	400	240	3,100
Indeno(1,2,3-cd)pyrene (µg/kg)	500	1,400	160	2,100	2,000	770	270	2,400
Naphthalene (µg/kg)	12,000	2,400	ND<49	1,500	1,400	74	780	3,000
Phenanthrene(µg/kg)	100,000	13,000	290	47,000	35,000	4,000	2,400	23,000
Pyrene(µg/kg)	100,000	12,000	450	45,000	29,000	3,900	2,400	23,000
Total SVOCs (µg/kg)	NS	77,150	3,679	310,300	209,770	28,724	13,879	126,510

Notes:

- * = NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives
- <# = Less than the method detection limit of #
- SVOCs = Semi-volatile organic compounds
- µg/kg = Micrograms/kilogram
- ND = Not Detected (# is method detection limit)
- NS = No Standard
- bgs = Below ground surface
- Bold** = Numbers in **Bold** exceed the NYSDEC Part 375 SCOs

Table 4

SOIL ANALYTICAL DATA- SVOCs

The Brooklyn Union Gas Co. D/B/A National Grid
 287 Maspeth Avenue
 Brooklyn, New York 11211

Compound	NYSDEC SCO CP-51*	Sample ID (sample depth)	
		Sample 2 (5 feet bgs)	Sample 4 (4 feet bgs)
Date		10/17/17	
Laboratory Analytical Method		EPA Method 8270C	
Acenaphthene (µg/kg)	20,000	300	1,600
Acenaphthylene (µg/kg)	100,000	270	830
Anthracene (µg/kg)	100,000	550	5,800
Benzo(a)anthracene (µg/kg)	1,000	1,900	14,000
Benzo(a)pyrene (µg/kg)	1,000	2,000	15,000
Benzo(b)fluoranthene (µg/kg)	1,000	1,900	12,000
Benzo(g,h,i)perylene (µg/kg)	100,000	1,500	7,900
Benzo(k)fluoranthene (µg/kg)	800	1,800	12,000
Chrysene (µg/kg)	1,000	1,900	14,000
Dibenzo(a,h)anthracene (µg/kg)	330	530	2,400
Fluoranthene (µg/kg)	100,000	2,800	31,000
Fluorene (µg/kg)	30,000	200	1,400
Indeno(1,2,3-cd)pyrene (µg/kg)	500	1,200	7,300
Naphthalene (µg/kg)	12,000	150	370
Phenanthrene(µg/kg)	100,000	1,700	25,000
Pyrene(µg/kg)	100,000	2,600	28,000
Total SVOCs (µg/kg)	NS	21,300	178,600

Notes:

* = NYSDEC Part 375 Unrestricted Use Soil Cleanup Objectives

<# = Less than the method detection limit of #

SVOCs = Semi-volatile organic compounds

µg/kg = Micrograms/kilogram

ND = Not Detected (# is method detection limit)

NS = No Standard

bgs = Below ground surface

Bold = Numbers in **Bold** exceed the NYSDEC Part 375 SCOs

Table 5

GROUNDWATER ANALYTICAL DATA - VOCs CP-51 LIST

The Brooklyn Union Gas Co. D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, NY 11211

Compound	NYSDEC TOGS 1.1.1 GWGS*	Sample ID
		Groundwater
Date		05/24/17
Laboratory Analytical Method		EPA Method 8260C (CP-51 List)
Benzene (µg/L)	0.7	ND<2.0
Toluene (µg/L)	5	ND<2.0
Ethylbenzene (µg/L)	5	ND<2.0
Total Xylenes (µg/L)	5	ND<2.0
Isopropylbenzene (µg/L)	5	ND<2.0
Naphthalene (µg/L)	10	1,500
1,2,4-Trimethylbenzene (µg/L)	5	2.6
1,3,5-Trimethylbenzene (µg/L)	5	ND<2.0
n-Butylbenzene (µg/L)	5	ND<2.0
n-Propylbenzene (µg/L)	5	ND<2.0
p-Isopropyltoluene (µg/L)	5	ND<2.0
sec-Butylbenzene (µg/L)	5	ND<2.0
tert-Butylbenzene (µg/L)	5	ND<2.0
MTBE (µg/L)	10	23
Total VOCs (µg/L)	NS	1,526

Notes:

- * = TOGS (1.1.1) Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000.
- <# = Less than the method detection limit of #
- GWQS = Ground Water Quality Standard
- MTBE = Methyl tertiary butyl ether
- VOCs = Volatile Organic Compounds
- µg/L = Micrograms/liter
- ND = Not Detected (# is method detection limit)
- NS = No Standard
- Bold** = Numbers in **Bold** exceed the NYSDEC GWQS.



Table 6

GROUNDWATER ANALYTICAL DATA - SVOCs

The Brooklyn Union Gas Co. D/B/A National Grid
 Greenpoint Energy Center
 287 Maspeth Avenue
 Brooklyn, New York 11211

Compound	NYSDEC TOGS 1.1.1 GWGS*	Sample ID
		Groundwater
Date		05/24/17
Laboratory Analytical Method		EPA Method 8260D
Acenaphthene (µg/L)	20	0.45
Acenaphthylene (µg/L)	NS	0.45
Anthracene (µg/L)	50	0.23
Benzo(a)anthracene (µg/L)	0.002	0.34
Benzo(a)pyrene (µg/L)	ND	0.38
Benzo(b)perylene (µg/L)	NS	0.27
Benzo(g,h,i)perlene (µg/L)	NS	0.27
Benzo(k)fluorathene (µg/L)	0.002	0.32
Chrysene (µg/L)	0.002	0.37
Fluoranthene (µg/L)	50	0.71
Dibenzo(a,h)anthracene (µg/L)	NS	0.11
Fluorene (µg/L)	50	0.37
Indeno(1,2,3-cd)pyrene (µg/L)	0.002	0.24
Naphthalene (µg/L)	10	590
Phenanthrene (µg/L)	50	0.69
Pyrene (µg/L)	50	0.77
Total SVOCs (µg/L)	NS	595

Notes:

- * = TOGS (1.1.1) Ambient Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000.
- <# = Less than the method detection limit of #
- GWQS = Ground Water Quality Standard
- VOCs = Volatile Organic Compounds
- µg/L = Micrograms/liter
- ND = Not Detected (# is method detection limit)
- NS = No Standard
- bgs = Below ground surface
- Bold** = Numbers in **Bold** exceed the NYSDEC TOGS 1.1.1

Tank Excavation Assessment Report – NYSDEC Spill # 1701762

The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue

Brooklyn, New York 11211

November 2017

APPENDIX A

Photographs



Tank Excavation Assessment Report

The Brooklyn Union Gas Co. D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue, Brooklyn, New York
November 2017



View of former tank mat before underground storage tank (UST) removal (looking west)



View of former tank mat before UST removal (looking south)



Tank Excavation Assessment Report

The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue, Brooklyn, New York

November 2017



View of 4,000-gallon gasoline UST in Excavation (looking southwest)



View of 1,000-gallon diesel UST in Excavation (looking south)



Tank Excavation Assessment Report

The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue, Brooklyn, New York

November 2017



View of former 4,000-gallon gasoline UST (looking east)



View of former 1,000-gallon diesel UST (looking west)



Tank Excavation Assessment Report

The Brooklyn Union Gas Co. D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue, Brooklyn, New York
November 2017



View of former 4,000-gallon gasoline and 1,000-gallon diesel USTs (looking south)



View of open excavation (looking south)



Tank Excavation Assessment Report

The Brooklyn Union Gas Co. D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue, Brooklyn, New York
November 2017



View of concrete bottom slab (looking north)



View of broken up concrete bottom slab (looking north)

Tank Excavation Assessment Report

The Brooklyn Union Gas Co. D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue, Brooklyn, New York
November 2017



View of removal of bottom slab (looking south)



View of impacted soil stockpile (looking north)



Tank Excavation Assessment Report

The Brooklyn Union Gas Co. D/B/A National Grid
Greenpoint Energy Center
287 Maspeth Avenue, Brooklyn, New York
November 2017



View of former dispenser area (looking south)



View of former dispenser area (looking north)

Tank Excavation Assessment Report – NYSDEC Spill # 1701762

The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue

Brooklyn, New York 11211

November 2017

APPENDIX B

UST Removal Disposal Affidavit





LI Office
40 Doyle Court
East Northport, NY 11731-6405
(631) 462-2226
FAX (631) 462-6434
www.islandpumpandtank.com

NY City Office
1381 Utica Avenue
Brooklyn, NY 11203
(718) 526-6525

July 28, 2017

DCI Mr. Frank Cifuentes
New York City Fire Department
9 Metro Tech Center
3rd Floor
Brooklyn, NY 11201-5884

Re: National Grid
287 Maspeth Ave
Brooklyn, NY

Dear DCI Cifuentes,

Please be advised that Island Pump and Tank Corp. removed One (1) 4,000 gallon double-wall steel underground gasoline storage tank and One (1) 1,000 gallon double-wall steel underground diesel storage tank on May 23, 2017 at 287 Maspeth Ave Brooklyn NY. The tanks were purged and cleaned before disposing to be recycled into scrap metal. This removal complies with Sections 3404.2.13.1 & 3404.2.13.2 of the New York City Fire Code.

Please contact me if you have any questions.

Sincerely,

Island Pump & Tank Corp.

A handwritten signature in black ink, appearing to read "Frank DiAndrea", followed by a horizontal line.

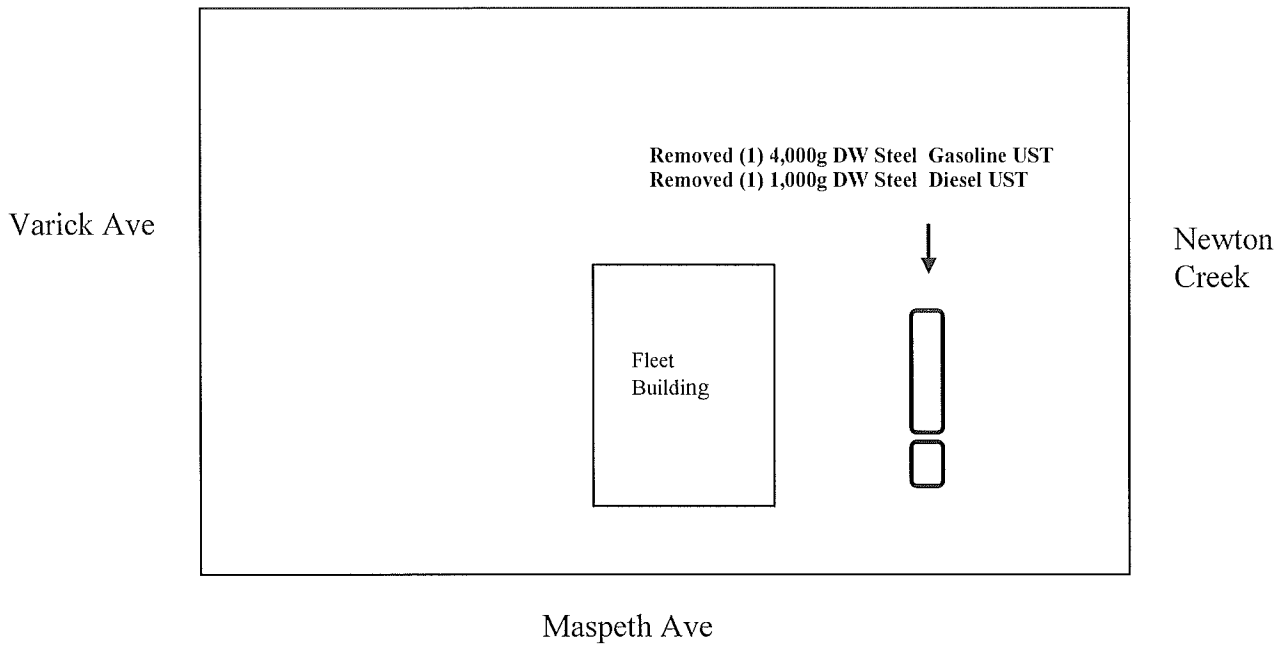
Frank DiAndrea
CEO
COF # 86389483 Exp. 04/29/2019
FD/jc

Sworn before me this 28th day of July, 2017
A handwritten signature in black ink, likely of a notary public, followed by a horizontal line.

National Grid
287 Maspeth Ave
Brooklyn, NY

Tanks Removed

One (1) – 4,000g Double-Wall Steel underground gasoline storage tank
One (1) – 1,000g Double-Wall Steel underground diesel storage tank



W/O 271753
1,000K TANK
MID ISLAND SALVAGE CORPORATION
SCRAP IRON & METAL
631-667-5040

1007 Long Island Ave
Deer Park NY 11729
11729

Natl. Grid Tank

240128



05/24/2017		Price	
Gross	Tare	Net Lbs	Amount
310 - 1000 gal tank		4.00	192.00
25,500.00	20,700.00	4,800.00	
Total			192.00

ONE HUNDRED NINETY-TWO AND XX / 100

Date	Mode	Trn #	Amount
5/24/2017	Cash		192.00

Print Name: ISLAND PUMP
Address: 1 BRIAN COURT
City/ST/Zip: MIDDLE ISLAND/NY/11953

State of issuance:

Ownership:

I hereby state that I'm the lawful owner of the material described herein, that I have a right to sell same and that for payment received in full, hereby acknowledged, I sell and convey title of same to:

Mid Island Salvage

THANK YOU FOR YOUR BUSINESS!

PLEASE COME AGAIN! FAC I.D. # 7002738

W/O 271753
4,000g TANK
MID ISLAND SALVAGE CORPORATION
SCRAP IRON & METAL
631-667-5040

1007 Long Island Ave
Deer Park NY 11729
11729

Natl. Grid

240039



05/23/2017		Price	
Gross	Tare	Net Lbs	Amount
310 - LIGHT IRON		4.00	420.00
34,800.00	24,300.00	10,500.00	
Total			420.00

* FOUR HUNDRED TWENTY AND XX / 100

Date	Mode	Trn #	Amount
5/23/2017	Cash		420.00

Print Name: ISLAND PUMP
Address: 1 BRIAN COURT
City/ST/Zip: MIDDLE ISLAND/NY/11953

State of issuance:

Ownership:

I hereby state that I'm the lawful owner of the material described herein, that I have a right to sell same and that for payment received in full, hereby acknowledged, I sell and convey title of same to:

Mid Island Salvage

THANK YOU FOR YOUR BUSINESS!

PLEASE COME AGAIN! FAC I.D. # 7002738

Tank Excavation Assessment Report – NYSDEC Spill # 1701762

The Brooklyn Union Gas Co. D/B/A National Grid

Greenpoint Energy Center

287 Maspeth Avenue

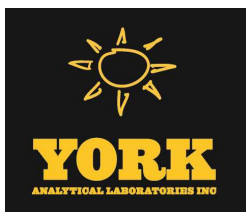
Brooklyn, New York 11211

November 2017

APPENDIX C

Laboratory Analytical Reports





Technical Report

prepared for:

Island Pump & Tank
40 Doyle Court
East Northport NY, 11731
Attention: Matthew Schieferstein

Report Date: 06/02/2017
Client Project ID: National Grid-Green Point
York Project (SDG) No.: 17E0974

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 06/02/2017
Client Project ID: National Grid-Green Point
York Project (SDG) No.: 17E0974

Island Pump & Tank
40 Doyle Court
East Northport NY, 11731
Attention: Matthew Schieferstein

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 24, 2017 and listed below. The project was identified as your project: **National Grid-Green Point**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
17E0974-01	DSWS	Soil	05/23/2017	05/24/2017
17E0974-02	DSWEN	Soil	05/23/2017	05/24/2017
17E0974-03	DSWES	Soil	05/23/2017	05/24/2017
17E0974-04	DSWWN	Soil	05/23/2017	05/24/2017
17E0974-05	DSWWS	Soil	05/23/2017	05/24/2017
17E0974-06	GSWN	Soil	05/23/2017	05/24/2017
17E0974-07	GSWEN	Soil	05/23/2017	05/24/2017
17E0974-08	GSWWN	Soil	05/23/2017	05/24/2017
17E0974-09	GSWWS	Soil	05/23/2017	05/24/2017

General Notes for York Project (SDG) No.: 17E0974

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

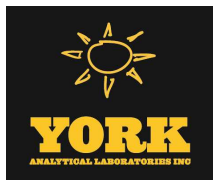
Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/02/2017





Sample Information

Client Sample ID: DSW5

York Sample ID: 17E0974-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17E0974

National Grid-Green Point

Soil

May 23, 2017 3:00 pm

05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 06:31	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.6	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 13:56	05/31/2017 06:31	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	110 %	77-125								
2037-26-5	Surrogate: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	95.2 %	76-130								



Sample Information

Client Sample ID: DSW5

York Sample ID: 17E0974-01

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	1400		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
208-96-8	Acenaphthylene	450		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
120-12-7	Anthracene	2500		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
56-55-3	Benzo(a)anthracene	5100		ug/kg dry	600	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 11:25	SR
50-32-8	Benzo(a)pyrene	10000		ug/kg dry	600	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 11:25	SR
205-99-2	Benzo(b)fluoranthene	4000		ug/kg dry	600	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 11:25	SR
191-24-2	Benzo(g,h,i)perylene	1300		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
207-08-9	Benzo(k)fluoranthene	1900		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
218-01-9	Chrysene	5400		ug/kg dry	600	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 11:25	SR
53-70-3	Dibenzo(a,h)anthracene	800		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
206-44-0	Fluoranthene	14000		ug/kg dry	600	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 11:25	SR
86-73-7	Fluorene	1500		ug/kg dry	48	96	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	1400		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
91-20-3	Naphthalene	2400		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 00:32	SR
85-01-8	Phenanthrene	13000		ug/kg dry	600	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 11:25	SR
129-00-0	Pyrene	12000		ug/kg dry	600	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 11:25	SR
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: Nitrobenzene-d5	46.7 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	55.2 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	36.3 %	24-116								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.1		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 11:51	05/25/2017 13:46	TAJ



Sample Information

Client Sample ID: DSWEN

York Sample ID: 17E0974-02

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:03	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.0	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 13:56	05/31/2017 07:03	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	111 %	77-125								
2037-26-5	Surrogate: Toluene-d8	108 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	94.8 %	76-130								

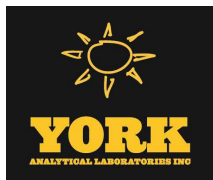
Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615							132-02 89th AVENUE			RICHMOND HILL, NY 11418
www.YORKLAB.com	(203) 325-1371							FAX (203) 357-0166			ClientServices@yorklab.com



Sample Information

Client Sample ID: DSWEN

York Sample ID: 17E0974-02

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
208-96-8	Acenaphthylene	85	J	ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
120-12-7	Anthracene	99	J	ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
56-55-3	Benzo(a)anthracene	260		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
50-32-8	Benzo(a)pyrene	650	CCV-E	ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
205-99-2	Benzo(b)fluoranthene	280		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
191-24-2	Benzo(g,h,i)perylene	170		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
207-08-9	Benzo(k)fluoranthene	280		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
218-01-9	Chrysene	300		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
53-70-3	Dibenzo(a,h)anthracene	75	J	ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
206-44-0	Fluoranthene	580		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
86-73-7	Fluorene	ND		ug/kg dry	49	99	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
193-39-5	Indeno(1,2,3-cd)pyrene	160		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
91-20-3	Naphthalene	ND		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
85-01-8	Phenanthrene	290		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
129-00-0	Pyrene	450		ug/kg dry	49	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:07	SR
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: Nitrobenzene-d5	46.0 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	55.4 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	36.8 %	24-116								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.4		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 11:51	05/25/2017 13:46	TAJ



Sample Information

Client Sample ID: DSWEN

York Sample ID: 17E0974-02

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Sample Information

Client Sample ID: DSWES

York Sample ID: 17E0974-03

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	3.1	J	ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
108-67-8	1,3,5-Trimethylbenzene	2.0	J	ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
71-43-2	Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
91-20-3	Naphthalene	33		ug/kg dry	2.0	8.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
95-47-6	o-Xylene	2.0	J	ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
108-88-3	Toluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 07:35	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 13:56	05/31/2017 07:35	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	77-125								



Sample Information

Client Sample ID: DSWES

York Sample ID: 17E0974-03

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: Toluene-d8	102 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	95.7 %			76-130						

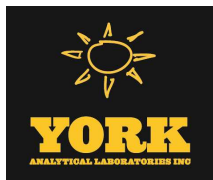
Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	7800		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
208-96-8	Acenaphthylene	900		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 01:21	SR
120-12-7	Anthracene	13000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
56-55-3	Benzo(a)anthracene	23000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
50-32-8	Benzo(a)pyrene	42000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
205-99-2	Benzo(b)fluoranthene	16000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
191-24-2	Benzo(g,h,i)perylene	1800	IS-06	ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 01:21	SR
207-08-9	Benzo(k)fluoranthene	17000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
218-01-9	Chrysene	25000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
53-70-3	Dibenzo(a,h)anthracene	1300	IS-06	ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 01:21	SR
206-44-0	Fluoranthene	59000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
86-73-7	Fluorene	7900		ug/kg dry	1200	2400	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
193-39-5	Indeno(1,2,3-cd)pyrene	2100	IS-06	ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 01:21	SR
91-20-3	Naphthalene	1500		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 01:21	SR
85-01-8	Phenanthrene	47000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
129-00-0	Pyrene	45000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 12:19	SR
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: Nitrobenzene-d5	57.6 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	66.2 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	69.1 %	24-116								



Sample Information

Client Sample ID: DSWES

York Sample ID: 17E0974-03

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	85.3		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 13:27	05/25/2017 18:00	TAJ

Sample Information

Client Sample ID: DSWWN

York Sample ID: 17E0974-04

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
91-20-3	Naphthalene	4.8	J	ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.1	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS



Sample Information

Client Sample ID: DSWWN

York Sample ID: 17E0974-04

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 08:07	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 13:56	05/31/2017 08:07	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: Toluene-d8	113 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	95.4 %			76-130						

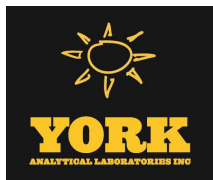
Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	6100		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
208-96-8	Acenaphthylene	770		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 23:44	SR
120-12-7	Anthracene	8200		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
56-55-3	Benzo(a)anthracene	15000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
50-32-8	Benzo(a)pyrene	24000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
205-99-2	Benzo(b)fluoranthene	9200		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
191-24-2	Benzo(g,h,i)perylene	1700		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 23:44	SR
207-08-9	Benzo(k)fluoranthene	9700		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
218-01-9	Chrysene	16000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
53-70-3	Dibenzo(a,h)anthracene	1300		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 23:44	SR
206-44-0	Fluoranthene	46000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
86-73-7	Fluorene	4400		ug/kg dry	1200	2400	50	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
193-39-5	Indeno(1,2,3-cd)pyrene	2000		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 23:44	SR
91-20-3	Naphthalene	1400		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 23:44	SR



Sample Information

Client Sample ID: DSWWN

York Sample ID: 17E0974-04

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	35000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
129-00-0	Pyrene	29000		ug/kg dry	1200	2400	50	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:07	SR
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: Nitrobenzene-d5	49.3 %									
321-60-8	Surrogate: 2-Fluorobiphenyl	55.6 %									
1718-51-0	Surrogate: Terphenyl-d14	49.8 %									

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.5		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 13:27	05/25/2017 18:00	TAJ

Sample Information

Client Sample ID: DSWWS

York Sample ID: 17E0974-05

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

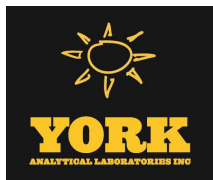
Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
71-43-2	Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS



Sample Information

Client Sample ID: DSWWS

York Sample ID: 17E0974-05

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	2.1	8.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.2	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
108-88-3	Toluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 13:35	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 07:30	05/31/2017 13:35	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	77-125								
2037-26-5	Surrogate: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	96.9 %	76-130								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	420		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
208-96-8	Acenaphthylene	250		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
120-12-7	Anthracene	770		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
56-55-3	Benzo(a)anthracene	2000		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
50-32-8	Benzo(a)pyrene	4600		ug/kg dry	120	240	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:55	SR
205-99-2	Benzo(b)fluoranthene	1800		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
191-24-2	Benzo(g,h,i)perylene	750		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR



Sample Information

Client Sample ID: DSWWS

York Sample ID: 17E0974-05

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	1300		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
218-01-9	Chrysene	2100		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
53-70-3	Dibenzo(a,h)anthracene	390		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
206-44-0	Fluoranthene	5200		ug/kg dry	120	240	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:55	SR
86-73-7	Fluorene	400		ug/kg dry	48	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
193-39-5	Indeno(1,2,3-cd)pyrene	770		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
91-20-3	Naphthalene	74	J	ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/01/2017 22:56	SR
85-01-8	Phenanthrene	4000		ug/kg dry	120	240	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:55	SR
129-00-0	Pyrene	3900		ug/kg dry	120	240	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 08:41	06/02/2017 13:55	SR
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: Nitrobenzene-d5	46.3 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	56.4 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	39.1 %	24-116								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.9		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 13:27	05/25/2017 18:00	TAJ

Sample Information

Client Sample ID: GSWN

York Sample ID: 17E0974-06

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

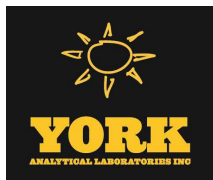
Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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Sample Information

Client Sample ID: GSWN

York Sample ID: 17E0974-06

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 13:56	05/31/2017 09:11	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.7	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 13:56	05/31/2017 09:11	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	107 %	77-125								
2037-26-5	Surrogate: Toluene-d8	105 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	96.1 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615									
www.YORKLAB.com	(203) 325-1371									
132-02 89th AVENUE										
FAX (203) 357-0166										
RICHMOND HILL, NY 11418										
ClientServices@yorklab.com										



Sample Information

Client Sample ID: GSWN

York Sample ID: 17E0974-06

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.8		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 13:27	05/25/2017 18:00	TAJ

Sample Information

Client Sample ID: GSWEN

York Sample ID: 17E0974-07

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS



Sample Information

Client Sample ID: GSWEN

York Sample ID: 17E0974-07

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:16	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.6	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 07:30	05/31/2017 16:16	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %			77-125						
2037-26-5	Surrogate: Toluene-d8	102 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	97.9 %			76-130						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	84.3		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 13:27	05/25/2017 18:00	TAJ

Sample Information

Client Sample ID: GSWWN

York Sample ID: 17E0974-08

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS



Sample Information

Client Sample ID: GSWWN

York Sample ID: 17E0974-08

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 16:48	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 07:30	05/31/2017 16:48	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	109 %			77-125						
2037-26-5	Surrogate: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	97.7 %			76-130						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.3		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 13:27	05/25/2017 18:00	TAJ

Sample Information

Client Sample ID: GSWWS

York Sample ID: 17E0974-09

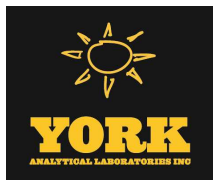
York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017



Sample Information

Client Sample ID: GSWWS

York Sample ID: 17E0974-09

York Project (SDG) No.
17E0974

Client Project ID
National Grid-Green Point

Matrix
Soil

Collection Date/Time
May 23, 2017 3:00 pm

Date Received
05/24/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/30/2017 07:30	05/31/2017 17:20	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.9	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	05/30/2017 07:30	05/31/2017 17:20	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	77-125								
2037-26-5	Surrogate: Toluene-d8	101 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	92.3 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615									
www.YORKLAB.com	(203) 325-1371									
132-02 89th AVENUE										
FAX (203) 357-0166										
RICHMOND HILL, NY 11418										
ClientServices@yorklab.com										



Sample Information

Client Sample ID: GSWWS

York Sample ID: 17E0974-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17E0974

National Grid-Green Point

Soil

May 23, 2017 3:00 pm

05/24/2017

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.1		%	0.100	1	SM 2540G Certifications: CTDOH	05/25/2017 13:27	05/25/2017 18:00	TAJ



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17E0974-01	DSWS	40mL Vial with Stir Bar-Cool 4° C
17E0974-02	DSWEN	40mL Vial with Stir Bar-Cool 4° C
17E0974-03	DSWES	40mL Vial with Stir Bar-Cool 4° C
17E0974-04	DSWWN	40mL Vial with Stir Bar-Cool 4° C
17E0974-05	DSWWS	40mL Vial with Stir Bar-Cool 4° C
17E0974-06	GSWN	40mL Vial with Stir Bar-Cool 4° C
17E0974-07	GSWEN	40mL Vial with Stir Bar-Cool 4° C
17E0974-08	GSWWN	40mL Vial with Stir Bar-Cool 4° C
17E0974-09	GSWWS	40mL Vial with Stir Bar-Cool 4° C



Notes and Definitions

J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IS-06	Internal standard perylene-d12 did not meet acceptance criteria. The sample was reanalyzed to confirm matrix interference. Compounds affected are: Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.



Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

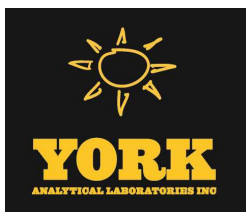
Field Chain-of-Custody Record

Page 1 of bf

York Project No. 17E0974

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

YOUR INFORMATION		Report To:		Invoice To:		YOUR PROJECT ID		Turn-Around Time		Report Type	
Company: <u>Island Pump & Tank</u>	Company: <u>sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>	Company: <u>Sine</u>
Address: <u>40 York Street</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>	Address: <u>East New York, NY</u>
Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>	Phone No. <u>(631) 662-8886</u>
Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>	Contact Person: <u>Mick S</u>
E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:	E-Mail Address:
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.											
Samples Collected/Authorized By (Signature) <u>Mick S</u> Name (printed) <u>Mick S</u>											
Matrix Codes S - soil Other - specify (oil, etc.) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor											
Sample Identification		Date/Time Sampled		Sample Matrix		Choose Analyses Needed from the Menu Above and Enter Below					
DSWS		5/23/17		S		8260 VOC CP-51 list, 8270 SVCS CP-51					
DSWEN											
DSWES											
DSWWS											
GSWN											
GSWEN											
GSWVN											
GSWS											
Comments: <u>8260 VOC CP-51 list</u> <u>8270 SVCS CP-51</u> <u>1-5035 kit</u>											
Preservation Check those Applicable Special Instructions Field Filtered ☐ Lab to Filter ☐											
4°C ☒ Frozen ☐ HCl ☐ MeOH ☐ HNO₃ ☐ NaOH ☐ Other ☐											
Samples Relinquished By <u>Bob</u> Date/Time <u>5/24/17 1828</u> Samples Received in LAB by <u>Bob</u> Date/Time <u>5/24/17 1828</u>											
Temperature on Receipt <u>7.2</u> °C											



Technical Report

prepared for:

Island Pump & Tank
40 Doyle Court
East Northport NY, 11731
Attention: Matthew Schieferstein

Report Date: 06/07/2017
Client Project ID: National Grid Greenpoint
York Project (SDG) No.: 17E1052

Revision No. 1.0

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 06/07/2017
Client Project ID: National Grid Greenpoint
York Project (SDG) No.: 17E1052

Island Pump & Tank
40 Doyle Court
East Northport NY, 11731
Attention: Matthew Schieferstein

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on May 25, 2017 and listed below. The project was identified as your project: **National Grid Greenpoint**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
17E1052-01	Groundwater	Water	05/24/2017	05/25/2017
17E1052-02	DBN	Soil	05/24/2017	05/25/2017
17E1052-03	DBS	Soil	05/24/2017	05/25/2017
17E1052-04	GBN	Soil	05/24/2017	05/25/2017
17E1052-05	GBS	Soil	05/24/2017	05/25/2017
17E1052-06	GSWES	Soil	05/24/2017	05/25/2017

General Notes for York Project (SDG) No.: 17E1052

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
9. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 06/07/2017





Sample Information

Client Sample ID: Groundwater

York Sample ID: 17E1052-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17E1052

National Grid Greenpoint

Water

May 24, 2017 3:00 pm

05/25/2017

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-43-2	Benzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
100-41-4	Ethyl Benzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
108-88-3	Toluene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
95-47-6	o-Xylene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: NELAC-NY10854	06/01/2017 14:04	06/02/2017 03:02	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	5.0	10	10	EPA 8260C Certifications: NELAC-NY10854	06/01/2017 14:04	06/02/2017 03:02	SS
98-82-8	Isopropylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
103-65-1	n-Propylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
95-63-6	1,2,4-Trimethylbenzene	2.6	J	ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
104-51-8	n-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
135-98-8	sec-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
91-20-3	Naphthalene	1500		ug/L	10	20	10	EPA 8260C Certifications: NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	23		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
1330-20-7	* Xylenes, Total	ND		ug/L	6.0	15	10	EPA 8260C Certifications: CTDOH,NJDEP	06/01/2017 14:04	06/02/2017 03:02	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	94.5 %	69-130								
460-00-4	Surrogate: p-Bromofluorobenzene	97.8 %	79-122								
2037-26-5	Surrogate: Toluene-d8	105 %	81-117								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615						132-02 89th AVENUE		RICHMOND HILL, NY 11418		
www.YORKLAB.com	(203) 325-1371						FAX (203) 357-0166		ClientServices@yorklab.com		



Sample Information

Client Sample ID: Groundwater

York Sample ID: 17E1052-01

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Water

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	0.45		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
208-96-8	Acenaphthylene	0.45		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
120-12-7	Anthracene	0.23		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
56-55-3	Benzo(a)anthracene	0.34		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
50-32-8	Benzo(a)pyrene	0.38		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
205-99-2	Benzo(b)fluoranthene	0.27		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
191-24-2	Benzo(g,h,i)perylene	0.27		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
207-08-9	Benzo(k)fluoranthene	0.32		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
218-01-9	Chrysene	0.37		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
53-70-3	Dibenzo(a,h)anthracene	0.11		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
206-44-0	Fluoranthene	0.71		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
86-73-7	Fluorene	0.37		ug/L	0.057	0.057	1	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
193-39-5	Indeno(1,2,3-cd)pyrene	0.24		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
91-20-3	Naphthalene	590		ug/L	1.1	110	20	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/05/2017 10:38	SR
85-01-8	Phenanthrene	0.69		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
129-00-0	Pyrene	0.77		ug/L	0.057	0.057	1	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	05/31/2017 07:23	06/04/2017 05:41	ZZZ
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: Nitrobenzene-d5	62.6 %	12-96								
321-60-8	Surrogate: 2-Fluorobiphenyl	68.9 %	16-84								
1718-51-0	Surrogate: Terphenyl-d14	55.8 %	15-106								



Sample Information

Client Sample ID: DBN

York Sample ID: 17E1052-02

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
71-43-2	Benzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
91-20-3	Naphthalene	2800		ug/kg dry	210	820	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
95-47-6	o-Xylene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	410	820	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
108-88-3	Toluene	ND		ug/kg dry	210	410	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:27	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	620	1200	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 07:30	06/01/2017 22:27	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %			77-125						
2037-26-5	Surrogate: Toluene-d8	98.5 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	92.9 %			76-130						

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615							132-02 89th AVENUE			RICHMOND HILL, NY 11418
www.YORKLAB.com	(203) 325-1371							FAX (203) 357-0166			ClientServices@yorklab.com



Sample Information

Client Sample ID: DBN

York Sample ID: 17E1052-02

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	230		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
208-96-8	Acenaphthylene	69	J	ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
120-12-7	Anthracene	480		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
56-55-3	Benzo(a)anthracene	960		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
50-32-8	Benzo(a)pyrene	840		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
205-99-2	Benzo(b)fluoranthene	560		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
191-24-2	Benzo(g,h,i)perylene	310		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
207-08-9	Benzo(k)fluoranthene	720		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
218-01-9	Chrysene	1000		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
53-70-3	Dibenzo(a,h)anthracene	120		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
206-44-0	Fluoranthene	2500		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
86-73-7	Fluorene	240		ug/kg dry	48	96	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
193-39-5	Indeno(1,2,3-cd)pyrene	270		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
91-20-3	Naphthalene	780		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
85-01-8	Phenanthrene	2400		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
129-00-0	Pyrene	2400		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 21:32	SR
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: Nitrobenzene-d5	37.2 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	36.4 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	40.2 %	24-116								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	86.5		%	0.100	1	SM 2540G Certifications: CTDOH	05/26/2017 14:35	05/26/2017 16:27	TAJ



Sample Information

Client Sample ID: DBN

York Sample ID: 17E1052-02

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Sample Information

Client Sample ID: DBS

York Sample ID: 17E1052-03

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
71-43-2	Benzene	6.6		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
100-41-4	Ethyl Benzene	3.2	J	ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	8.8		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
91-20-3	Naphthalene	37		ug/kg dry	1.9	7.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.8	7.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
108-88-3	Toluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 20:51	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 07:30	06/01/2017 20:51	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.8 %	77-125								



Sample Information

Client Sample ID: DBS

York Sample ID: 17E1052-03

York Project (SDG) No.

17E1052

Client Project ID

National Grid Greenpoint

Matrix

Soil

Collection Date/Time

May 24, 2017 3:00 pm

Date Received

05/25/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: Toluene-d8	95.2 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	98.3 %			76-130						

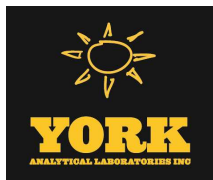
Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	2600		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
208-96-8	Acenaphthylene	710		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 22:02	SR
120-12-7	Anthracene	4200		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
56-55-3	Benzo(a)anthracene	8200		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
50-32-8	Benzo(a)pyrene	6900		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
205-99-2	Benzo(b)fluoranthene	4800		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
191-24-2	Benzo(g,h,i)perylene	2300		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 22:02	SR
207-08-9	Benzo(k)fluoranthene	6200		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
218-01-9	Chrysene	8900		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
53-70-3	Dibenzo(a,h)anthracene	1200		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 22:02	SR
206-44-0	Fluoranthene	26000		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
86-73-7	Fluorene	3100		ug/kg dry	51	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 22:02	SR
193-39-5	Indeno(1,2,3-cd)pyrene	2400		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/02/2017 22:02	SR
91-20-3	Naphthalene	3000		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
85-01-8	Phenanthrene	23000		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
129-00-0	Pyrene	23000		ug/kg dry	640	1300	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/02/2017 08:20	06/04/2017 10:28	SR
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: Nitrobenzene-d5	46.5 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	43.2 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	21.8 %	S-08		24-116						



Sample Information

Client Sample ID: DBS

York Sample ID: 17E1052-03

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	81.9		%	0.100	1	SM 2540G Certifications: CTDOH	05/26/2017 14:35	05/26/2017 16:27	TAJ

Sample Information

Client Sample ID: GBN

York Sample ID: 17E1052-04

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
71-43-2	Benzene	250	J	ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
91-20-3	Naphthalene	10000		ug/kg dry	160	660	100	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
95-47-6	o-Xylene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	330	660	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS



Sample Information

Client Sample ID: GBN

York Sample ID: 17E1052-04

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
108-88-3	Toluene	ND		ug/kg dry	160	330	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 22:59	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	490	990	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 07:30	06/01/2017 22:59	SS
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	105 %			77-125						
2037-26-5	Surrogate: Toluene-d8	98.6 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	95.4 %			76-130						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	83.5		%	0.100	1	SM 2540G Certifications: CTDOH	05/26/2017 14:35	05/26/2017 16:27	TAJ

Sample Information

Client Sample ID: GBS

York Sample ID: 17E1052-05

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

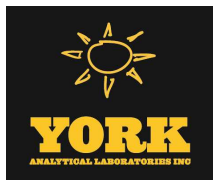
Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
71-43-2	Benzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS



Sample Information

Client Sample ID: GBS

York Sample ID: 17E1052-05

York Project (SDG) No.

17E1052

Client Project ID

National Grid Greenpoint

Matrix

Soil

Collection Date/Time

May 24, 2017 3:00 pm

Date Received

05/25/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	6.4		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.8	7.2	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.6	7.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
108-88-3	Toluene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:23	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 07:30	06/01/2017 21:23	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	108 %	77-125								
2037-26-5	Surrogate: Toluene-d8	99.0 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	97.4 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.1		%	0.100	1	SM 2540G Certifications: CTDOH	05/26/2017 14:35	05/26/2017 16:27	TAJ

Sample Information

Client Sample ID: GSWES

York Sample ID: 17E1052-06

York Project (SDG) No.

17E1052

Client Project ID

National Grid Greenpoint

Matrix

Soil

Collection Date/Time

May 24, 2017 3:00 pm

Date Received

05/25/2017



Sample Information

Client Sample ID: GSWES

York Sample ID: 17E1052-06

York Project (SDG) No.
17E1052

Client Project ID
National Grid Greenpoint

Matrix
Soil

Collection Date/Time
May 24, 2017 3:00 pm

Date Received
05/25/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
71-43-2	Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.4	9.5	1	EPA 8260C Certifications: NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
108-88-3	Toluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2017 07:30	06/01/2017 21:55	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.1	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2017 07:30	06/01/2017 21:55	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	77-125								
2037-26-5	Surrogate: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	91.7 %	76-130								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615									
www.YORKLAB.com	(203) 325-1371									
132-02 89th AVENUE										
FAX (203) 357-0166										
RICHMOND HILL, NY 11418										
ClientServices@yorklab.com										



Sample Information

Client Sample ID: GSWES

York Sample ID: 17E1052-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17E1052

National Grid Greenpoint

Soil

May 24, 2017 3:00 pm

05/25/2017

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	87.9		%	0.100	1	SM 2540G Certifications: CTDOH	05/26/2017 14:35	05/26/2017 16:27	TAJ



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17E1052-01	Groundwater	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
17E1052-02	DBN	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
17E1052-03	DBS	40mL 01_Clear Vial Cool to 4° C
17E1052-04	GBN	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
17E1052-05	GBS	40mL Vial with Stir Bar-Cool 4° C
17E1052-06	GSWES	40mL Vial with Stir Bar-Cool 4° C



Notes and Definitions

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

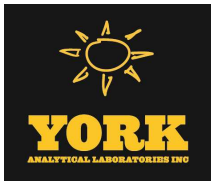
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

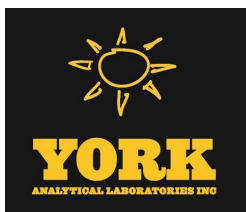
Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.



For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: Revised sample ID





Technical Report

prepared for:

Island Pump & Tank
40 Doyle Court
East Northport NY, 11731
Attention: Matthew Schieferstein

Report Date: 10/25/2017
Client Project ID: NAT. GRID. #287 MASPETH AVE BROOKLYN NY
York Project (SDG) No.: 17J0729

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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ClientServices@yorklab.com

Report Date: 10/25/2017
Client Project ID: NAT. GRID. #287 MASPETH AVE BROOKLYN NY
York Project (SDG) No.: 17J0729

Island Pump & Tank
40 Doyle Court
East Northport NY, 11731
Attention: Matthew Schieferstein

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 18, 2017 and listed below. The project was identified as your project: **NAT. GRID. #287 MASPETH AVE BROOKLYN NY.**

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
17J0729-01	Sample 1	Soil	10/17/2017	10/18/2017
17J0729-02	Sample 2	Soil	10/17/2017	10/18/2017
17J0729-03	Sample 3	Soil	10/17/2017	10/18/2017
17J0729-04	Sample 4	Soil	10/17/2017	10/18/2017
17J0729-05	Sample 5	Soil	10/17/2017	10/18/2017

General Notes for York Project (SDG) No.: 17J0729

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 10/25/2017





Sample Information

Client Sample ID: Sample 1

York Sample ID: 17J0729-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 10:30 am

10/18/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
108-67-8	1,3,5-Trimethylbenzene	2.7	J	ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
71-43-2	Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.6	10	1	EPA 8260C Certifications: NELAC-NY10854-CT,NJDEP,NELAC-NY10854-	10/23/2017 07:30	10/23/2017 16:05	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/23/2017 07:30	10/23/2017 16:05	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/23/2017 07:30	10/23/2017 16:05	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
108-88-3	Toluene	ND		ug/kg dry	2.6	5.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.7	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:05	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	104 %	77-125								
2037-26-5	Surrogate: Toluene-d8	111 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	95.6 %	76-130								



Sample Information

Client Sample ID: Sample 1

York Sample ID: 17J0729-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 10:30 am

10/18/2017

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.1		%	0.100	1	SM 2540G Certifications: CTDOH	10/24/2017 11:04	10/24/2017 14:51	TAJ

Sample Information

Client Sample ID: Sample 2

York Sample ID: 17J0729-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 10:40 am

10/18/2017

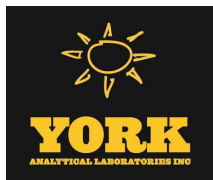
Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
71-43-2	Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
91-20-3	Naphthalene	ND		ug/kg dry	2.4	9.5	1	EPA 8260C Certifications: NELAC-NY10854-CT,NJDEP,NELAC-NY10854-	10/20/2017 07:30	10/20/2017 15:14	SR
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
95-47-6	o-Xylene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/20/2017 07:30	10/20/2017 15:14	SR
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.7	9.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/20/2017 07:30	10/20/2017 15:14	SR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR



Sample Information

Client Sample ID: Sample 2

York Sample ID: 17J0729-02

York Project (SDG) No.

17J0729

Client Project ID

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Matrix

Soil

Collection Date/Time

October 17, 2017 10:40 am

Date Received

10/18/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
108-88-3	Toluene	ND		ug/kg dry	2.4	4.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.1	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:14	SR
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	103 %			77-125						
2037-26-5	Surrogate: Toluene-d8	118 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	116 %			76-130						

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	300		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
208-96-8	Acenaphthylene	270		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
120-12-7	Anthracene	550		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
56-55-3	Benzo(a)anthracene	1900		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
50-32-8	Benzo(a)pyrene	2000		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
205-99-2	Benzo(b)fluoranthene	1900		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
191-24-2	Benzo(g,h,i)perylene	1500		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
207-08-9	Benzo(k)fluoranthene	1800		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
218-01-9	Chrysene	1900		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
53-70-3	Dibenzo(a,h)anthracene	530		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
206-44-0	Fluoranthene	2800		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
86-73-7	Fluorene	200		ug/kg dry	47	94	2	EPA 8270D Certifications: NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
193-39-5	Indeno(1,2,3-cd)pyrene	1200		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
91-20-3	Naphthalene	150		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH



Sample Information

Client Sample ID: Sample 2

York Sample ID: 17J0729-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 10:40 am

10/18/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	1700		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
129-00-0	Pyrene	2600		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:07	KH
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: Nitrobenzene-d5	56.4 %		22-108							
321-60-8	Surrogate: 2-Fluorobiphenyl	54.7 %		21-113							
1718-51-0	Surrogate: Terphenyl-d14	44.4 %		24-116							

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	88.4		%	0.100	1	SM 2540G Certifications: CTDOH	10/24/2017 11:06	10/24/2017 15:10	TAJ

Sample Information

Client Sample ID: Sample 3

York Sample ID: 17J0729-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 10:55 am

10/18/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	7.3		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR



Sample Information

Client Sample ID: Sample 3

York Sample ID: 17J0729-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 10:55 am

10/18/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854-CT,NJDEP,NELAC-NY10854-	10/20/2017 07:30	10/20/2017 15:48	SR
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
95-47-6	o-Xylene	3.7	J	ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/20/2017 07:30	10/20/2017 15:48	SR
179601-23-1	p- & m- Xylenes	6.6	J	ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/20/2017 07:30	10/20/2017 15:48	SR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
1330-20-7	Xylenes, Total	10	J	ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/20/2017 07:30	10/20/2017 15:48	SR
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>108 %</i>	<i>77-125</i>								
2037-26-5	<i>Surrogate: Toluene-d8</i>	<i>94.7 %</i>	<i>85-120</i>								
460-00-4	<i>Surrogate: p-Bromofluorobenzene</i>	<i>105 %</i>	<i>76-130</i>								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.1		%	0.100	1	SM 2540G Certifications: CTDOH	10/24/2017 11:06	10/24/2017 15:10	TAJ

Sample Information

Client Sample ID: Sample 4

York Sample ID: 17J0729-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 11:10 am

10/18/2017



Sample Information

Client Sample ID: Sample 4

York Sample ID: 17J0729-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 11:10 am

10/18/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
71-43-2	Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854-CT,NJDEP,NELAC-NY10854-	10/23/2017 07:30	10/23/2017 17:09	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/23/2017 07:30	10/23/2017 17:09	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.3	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/23/2017 07:30	10/23/2017 17:09	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
108-88-3	Toluene	ND		ug/kg dry	2.7	5.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.0	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 17:09	SS
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.5 %	77-125								
2037-26-5	Surrogate: Toluene-d8	107 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	94.8 %	76-130								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615										
www.YORKLAB.com	(203) 325-1371										
132-02 89th AVENUE											
FAX (203) 357-0166											
RICHMOND HILL, NY 11418											
ClientServices@yorklab.com											



Sample Information

Client Sample ID: Sample 4

York Sample ID: 17J0729-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 11:10 am

10/18/2017

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	1600		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:39	KH
208-96-8	Acenaphthylene	830		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:39	KH
120-12-7	Anthracene	5800		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
56-55-3	Benzo(a)anthracene	14000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
50-32-8	Benzo(a)pyrene	15000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
205-99-2	Benzo(b)fluoranthene	12000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
191-24-2	Benzo(g,h,i)perylene	7900		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
207-08-9	Benzo(k)fluoranthene	12000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
218-01-9	Chrysene	14000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
53-70-3	Dibenzo(a,h)anthracene	2400		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:39	KH
206-44-0	Fluoranthene	31000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
86-73-7	Fluorene	1400		ug/kg dry	46	92	2	EPA 8270D Certifications: NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:39	KH
193-39-5	Indeno(1,2,3-cd)pyrene	7300		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
91-20-3	Naphthalene	370		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/23/2017 22:39	KH
85-01-8	Phenanthrene	25000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
129-00-0	Pyrene	28000		ug/kg dry	580	1200	25	EPA 8270D Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,PADEP	10/23/2017 06:08	10/24/2017 10:13	KH
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: Nitrobenzene-d5	63.4 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	51.7 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	40.3 %	24-116								

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	90.2		%	0.100	1	SM 2540G Certifications: CTDOH	10/24/2017 11:06	10/24/2017 15:10	TAJ



Sample Information

Client Sample ID: Sample 4

York Sample ID: 17J0729-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
17J0729	NAT. GRID. #287 MASPETH AVE BROOKLYN NY	Soil	October 17, 2017 11:10 am	10/18/2017

Sample Information

Client Sample ID: Sample 5

York Sample ID: 17J0729-05

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
17J0729	NAT. GRID. #287 MASPETH AVE BROOKLYN NY	Soil	October 17, 2017 11:20 am	10/18/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854-CT,NJDEP,NELAC-NY10854-	10/23/2017 07:30	10/23/2017 16:37	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/23/2017 07:30	10/23/2017 16:37	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NELAC-NY10854	10/23/2017 07:30	10/23/2017 16:37	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854-CT,NJDEP,NELAC-N	10/23/2017 07:30	10/23/2017 16:37	SS
Surrogate Recoveries		Result	Acceptance Range								



Sample Information

Client Sample ID: Sample 5

York Sample ID: 17J0729-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

17J0729

NAT. GRID. #287 MASPETH AVE BROOKLYN NY

Soil

October 17, 2017 11:20 am

10/18/2017

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	102 %			77-125						
2037-26-5	Surrogate: Toluene-d8	107 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	91.6 %			76-130						

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	* % Solids	89.5		%	0.100	1	SM 2540G Certifications: CTDOH	10/24/2017 11:06	10/24/2017 15:10	TAJ



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
17J0729-01	Sample 1	40mL Vial with Stir Bar-Cool 4° C
17J0729-02	Sample 2	40mL Vial with Stir Bar-Cool 4° C
17J0729-03	Sample 3	40mL Vial with Stir Bar-Cool 4° C
17J0729-04	Sample 4	40mL Vial with Stir Bar-Cool 4° C
17J0729-05	Sample 5	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

Page 1 of 1

York Project No. 1730729

NOTE: York's Std. Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

YOUR Information		Report To:		Invoice To:		YOUR Project ID		Turn-Around Time		Report Type	
Company: <u>Island Pump & Tank</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>	Company: <u>SAME</u>
Address: <u>40 Doyle Court</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>	Address: <u>SAME</u>
Phone No. <u>401 462 2226</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>	Phone No. <u>SAME</u>
Contact Person: <u>MATT Schrienerstein</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>	Contact Person: <u>SAME</u>
E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>	E-Mail Address: <u></u>
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.											
<u>Mike Ryan</u> Samples Collected/Authorized By (Signature)											
<u>MIKE RYAN</u> Name (printed)											
Choose Analyses Needed from the Menu Above and Enter Below											
Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)							
Sample #1	10-17 10:30	S	8260 CP-51 list VOCs	1-KIT 7-1-402							
Sample #2	10-17 10:40		8270 CP-51 list SVOCs	1-KIT 7-1-402							
Sample #3	10-17 10:55			1-KIT 7-1-402							
Sample #4	10-17 11:10		8270 CP-51 list SVOCs	1-KIT 7-1-402							
Sample #5	10-17 11:20			1-KIT 7-1-402							
Preservation Check those Applicable Special Instructions Field Filtered ☐ Lab to Filter ☐											
Comments											
Temperature on Receipt <u>13</u> °C											

ELECTRICAL CORPORATIONS AND GAS CORPORATIONS
CLASSES A, B, AND C

ORIGINAL

YEAR ENDED
DECEMBER 31, 1926

Report of

THE BROOKLYN UNION GAS COMPANY

(Here show in full the exact corporate, firm or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at

176 Remsen Street, Brooklyn, N. Y.

(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

PUBLIC SERVICE COMMISSION

OF THE

STATE OF NEW YORK

FOR THE YEAR ENDED DECEMBER 31, 1926

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1926.

512. Important Changes during the Year - Page 506.

Inquiry:

1. Construction has been started on a new water gas manufacturing plant to be known as the Greenpoint Works, The daily capacity of which will be 20,000,000 cubic feet.
Construction is about 95 percent completed on a new high pressure pumping station and 15,000,000 cubic feet waterless gas holder to be known as the Waspeeth Avenue Station. The main units in the pumping station are four motor driven centrifugal gas boosters. The boosters are each rated at 12400/13300 cubic feet per minute against 22.2/24.2^{1b5} pressure and the motors are each rated at 950 H.P. and 1,800 R.P.M.
2. Various minor improvements.
3. 48" transmission line starting from Waspeeth Avenue Station and running along Waspeeth Avenue to Morgan Avenue and then to Scholes Street covering a distance of approximately 4,083 feet was under process of construction during the year. Various minor extensions to distribution lines.
4. .67 miles of transmission lines and 11.43 miles of distribution lines were put into operation during the year.
5. None.
6. 230 shares of Common Stock were issued in exchange for \$11,500.00 of 10 Year 7% Convertible Debenture Bonds dated November 1, 1919. P.S.C. Case No. 2365.
1,516 shares of Common Stock were issued in exchange for \$75,800.00 of 10 Year 7% Convertible Debenture Bonds dated May 1, 1922. P.S.C. Case No. 309.
Stock was issued during period from January 1, 1926 to December 31, 1926 on basis of two shares of stock of no par value for each \$100.00 of bonds.
7. \$11,800,000.00 of 10 Year 5 $\frac{1}{2}$ % Convertible Debenture Bonds dated January 1, 1926 were issued on January 15, 1926.
\$11,500.00 of 10 Year 7% Convertible Debenture Bonds, dated November 1, 1919, were converted into Common Stock; \$75,800.00 of 10 Year 7% Convertible Debenture Bonds, dated May 1, 1922, were converted into Common Stock.
The mortgage on property at Ralph and Ditmas Avenues, in the amount of \$400,000.00, assumed on October 15, 1924, was paid off on January 22, 1926.
The mortgages on property located at Newtown Creek in the amounts of \$170,000.00 and \$800,000.00, assumed on August 1, 1925 and July 15, 1925, respectively, were paid off on March 19, 1926.
8. On January 18, 1926 the respondent purchased the Capital Stock of its associated companies issued as of that date, as follows:

	P.S.C.	
	Case No.	
The Newtown Gas Co.	15,095 shares of a total par value of \$1,509,500.00	2181
Rich Hill & O.C.G.I.Co.	6,192 " " " " " "	2178
The Jamaica Gas Lt.Co.	4,969 " " " " " "	2176
The Woodhaven G.I.Co.	9,792 " " " " " "	2180
The Flatbush Gas Co.	18,428 " " " " " "	2179
Total amount of Capital Stock purchased by the respondent	\$4,061,800.00	2177

On September 8, 1926 the respondent accepted a mortgage in the amount of \$190,000.00 with interest at 6% as part payment on the sale of property at Ralph and Ditmas Avenues. This mortgage was subsequently reduced by a payment of \$10,000.00 on October 8, 1926.
9. -----
10. -----
11. None.
12. See insert.
13. Yes, see Contingent Liabilities on page 201.
14. No.
15. None.

Report of

THE BROOKLYN UNION GAS COMPANY.
(Here show in full the exact corporate, firm or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at

176 REMSEN STREET, BROOKLYN, N. Y.
(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE—STATE DIVISION
Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1927

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1928

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1927

413. Gas Plants - Page 405

<u>Water gas plants</u>				
	<u>Designation of plant</u> (f)	<u>Location of plant (including street and No.)</u> (g)	<u>Rated 24- hour capacity</u> <u>M. cu. ft.</u> (h)	<u>Number of water gas sets</u> (i)
1	Citizens Works	433 Hoyt Street, Brooklyn, New York.	27,200	10
2				
3	Fulton Works	265 Nevins Street, Brooklyn, New York	13,000	6
4				
5	Nassau Works	556 Kent Avenue, Brooklyn, New York	24,500	9
6				
7	Williamsburgh Works	Foot of North 12th Street, Brooklyn, New York	30,000	12
8				
9	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, New York	20,000	6
10				
11	Equity Works	234 Maspeth Avenue, Brooklyn, New York	2,500	4
12				
13	Metropolitan Works	53 Twelfth Street, Brooklyn, New York.	27,200	9
14				
15		Total	<u>144,400</u>	<u>56</u>

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1927

414. Auxiliary Apparatus at Gas Plants - Page 405.

Holders (works and outlying)

Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Capacity each (d)	Total Capacity (e)
1 Citizens Works	1	Bartlett Hayward Company	493,000	493,000
2 "	1	"	245,000	245,000
3 Fulton Works	1	Continental Iron Works	252,000	252,000
4 "	1	"	284,000	284,000
5 Williamsburgh Works	1	"	460,000	460,000
6 "	1	"	1,100,000	1,100,000
7 Metropolitan Works	1	Logan Iron Works	370,000	370,000
8 "	1	R. D. Wood and Company	575,000	575,000
9 Third Avenue Station	1	"	985,000	985,000
10 Fifth Street	1	Bartlett Hayward Company	5,000,000	5,000,000
11 Twelfth Street	1	"	5,000,000	5,000,000
12 Plymouth Street	1	"	5,000,000	5,000,000
13 "	1	Jesse Starr Company	296,000	296,000
14 "	1	"	299,000	299,000
15 Front Street	1	"	301,000	301,000
16 "	1	Continental Iron Works	580,000	580,000
17 Keep Street	1	Logan Iron Works	1,146,000	1,146,000
18 Skillman Street	1	Continental Iron Works	370,000	370,000
19 "	1	Not known	553,000	553,000
20 Rutledge Street	1	Bartlett Hayward Company	539,000	539,000
21 Wythe Avenue	2	"	1,056,000	1,056,000
22 Scholes Street	1	"	5,000,000	10,000,000
23 Belmont Avenue	1	"	1,499,000	1,499,000
24 Jamaica	1	"	3,250,000	3,250,000
25 Union	1	"	500,000	500,000
26 Maspeth Avenue	1	Logan Iron Works	500,000	500,000
27 Skillman Street	1	Bartlett Hayward Company	15,000,000	15,000,000
		Jesse Starr Company	304,000	304,000
		<u>Relief Holders</u>		
27 Citizens Works	1	Bartlett Hayward Company	246,000	246,000
28 Fulton	1	Thomas F. Rowland	100,000	100,000
29 Nassau	1	Bartlett Hayward Company	107,000	107,000
30 "	1	"	255,000	255,000
31 Williamsburgh Works	1	Jesse Starr Company	315,000	315,000
32 "	1	Camden Iron Works	306,000	306,000
33 Equity Works	1	Laurel Iron Works	430,000	430,000
34 Metropolitan Works	1	Bartlett Hayward Company	105,000	105,000
35 "	1	Hoey, Kennedy and Company	320,000	320,000
36 Greenpoint Works	1	Bartlett Hayward Company	1,000,000	1,000,000

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission.

For the Year ended December 31, 1927

414. Auxiliary Apparatus at Gas Plants - Page 405.

Oil Storage Tanks

Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Gallons each Capacity (d)	Total Capacity (e)
1 Citizens Works	1	Not known	251,880	251,880
2 "	1	"	440,760	440,760
3 "	1	"	675,000	675,000
4 "	5	"	20,000	100,000
5 "	4	"	10,000	40,000
6 Fulton Works	1	Continental Iron Works	39,716	39,716
7 "	1	" " "	39,716	39,716
8 "	1	" " "	39,716	39,716
9 "	1	" " "	155,958	155,958
10 "	1	C. Cunningham and Sons	228,000	228,000
11 "	1	" " "	512,142	512,142
12 "	1	Continental Iron Works	39,716	39,716
13 "	5	Bartlett Hayward Company	20,000	100,000
14 "	4	" " "	10,000	40,000
15 Nassau Works	1	" " "	198,000	198,000
16 "	1	Not known	198,000	198,000
17 "	1	"	158,383	158,383
18 "	1	"	158,383	158,383
19 "	1	Bartlett Hayward Company	30,000	30,000
20 "	1	" " "	22,464	22,464
21 Williamsburgh Works	1	C. L. Rowland	158,000	158,000
22 "	1	Not known	341,000	341,000
23 "	1	C. Cunningham Boiler Works	282,000	282,000
24 "	1	Bartlett Hayward Company	675,000	675,000
25 "	5	" " "	20,000	100,000
26 Equity Works	1	Not known	28,000	28,000
27 "	1	"	28,000	28,000
28 "	1	"	153,000	153,000
29 Metropolitan Works	1	Logan Iron Works	229,320	229,320
30 "	1	Not known	151,139	151,139
31 -	1	Bartlett Hayward Company	513,962	513,962
32 "	3	" " "	44,047	132,141
33 "	5	" " "	22,560	112,800
34 "	1	" " "	31,815	31,815
35 Greenpoint Works	2	" " "	1,058,564	2,117,128

Foamite Storage Tanks

36 Greenpoint Works	2	Bartlett Hayward Company	45,800	91,600
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THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1927

414. Auxiliary Apparatus at Gas Plants - Page 405.

Tar Tanks

Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Gallons (each) Capacity (d)	Total Capacity (e)
1 Citizens Works	1	Not known	21,000	21,000
2 "	1	"	60,000	60,000
3 "	5	"	12,000	60,000
4 "	1	"	50,000	50,000
5 "	2	"	27,000	54,000
6 "	2	"	2,500	5,000
7 "	2	"	500	1,000
8 "	2	"	5,400	5,400
9 "	1	"	37,500	112,500
10 Fulton Works	3	"	32,100	32,100
11 "	1	C. Cunningham and Sons	105,139	105,139
12 "	1	Continental Iron Works	39,716	79,432
13 "	2	" " "	8,328	35,312
14 "	4	" " "	10,000	10,000
15 "	1	C. Cunningham and Sons	5,552	5,552
16 "	1	Continental Iron Works	2,500	5,000
17 Nassau Works	2	" " "	100,000	200,000
18 "	2	Not known	187,810	187,810
19 "	1	"	22,810	22,810
20 "	1	"	11,520	11,520
21 "	1	"	7,077	7,077
22 "	1	"	8,812	8,812
23 "	2	"	39,395	78,790
24 "	1	"	11,423	11,423
25 "	1	"	7,935	7,935
26 "	1	"	23,950	23,950
27 "	1	"	39,395	39,395
28 Williamsburgh Works	1	Logan Iron Works	225,000	225,000
29 "	2	C. L. Rowland	6,400	12,800
30 "	1	Bartlett Hayward Company	43,000	43,000
31 "	1	" " "	30,900	30,900
32 "	2	Not known	5,700	11,400
33 "	1	"	22,700	22,700
34 "	1	"	11,400	11,400
35 "	1	Bartlett Hayward Company	8,250	8,250
36 "	1	" " "	1,550	1,550
37 "	1	C. Cunningham and Sons	21,800	21,800
38 Equity Works	1	Not known	180,000	180,000
39 "	1	"	9,500	9,500
40 Metropolitan Works	1	C. Cunningham and Sons	24,179	24,179
41 "	1	Not known	3,384	3,384
42 "	1	Logan Iron Works	128,186	128,186
43 "	1	Bartlett Hayward Company	105,469	105,469
44 "	1	Not known	900	900
45 Greenpoint Works	6	Bartlett Hayward Company	45,800	274,800
46 "	1	" " "	403,892	403,892
47 Citizens Works	1	Not known	4,500	4,500

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1927

414. Auxiliary Apparatus at Gas Plants - Page 405.

Boilers

Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Horse Power each (d)	Total Horse Power (e)
1 Citizens Works	3	Babcock and Wilcox Company	335	1,005
2 "	6	" " " "	600	3,600
3 Fulton Works	2	Sterling Consolidated Boiler Co.	300	600
4 "	1	Babcock and Wilcox Company	309	309
5 "	2	Heine Boiler Company	265	530
6 "	2	Babcock and Wilcox Company	350	700
7 Nassau Works	3	Aultman and Taylor	250	750
8 "	2	Sterling Consolidated Boiler Co.	414	828
9 "	1	Heine Boiler Company	358	358
10 "	1	" " "	560	560
11 "	2	Wicks Boiler Company	503	1,006
12 "	1	" " "	482	482
13 Williamsburgh Works	5	Babcock and Wilcox Company	414	2,070
14 "	4	Aultman and Taylor	250	1,000
15 "	1	Heine Boiler Company	504	504
16 "	1	" " "	564	564
17 "	2	Wicks Boiler Company	503	1,006
18 Equity Works	2	Babcock and Wilcox Company	165	330
19 "	1	" " " "	309	309
20 Metropolitan Works	4	" " " "	335	1,340
21 "	4	" " " "	440	1,760
22 "	2	Heine Boiler Company	482	964
23 Third Avenue Station	2	Hazelton Boiler Company	125	250
24 Front Street "	2	Atlantic Steam Engine Works	70	140
25 Plymouth Street "	1	Logan Iron Works	50	50
26 Rutledge Street "	2	P. J. Donahue and Sons	85	170
27 Skillman " " P.	2	Coatsville Boiler Works	65	130
28 Keap " "	1	Kane Manufacturing Company	4	4
29 Wythe Avenue "	2	Babcock and Wilcox Company	207	414
30 " " "	2	" " " "	297	594
31 Scholes Street "	2	Hazelton Boiler Company	50	100
32 " " "	1	" " "	250	250
33 Belmont Avenue "	2	" " "	100	200
34 Union " "	1	Continental Iron Works	40	40
35 " " "	1	Erie City Iron Works	100	100
36 Jamaica " "	2	Hazelton Boiler Company	50	100
37 Maspeth Avenue "	1	Olney and Warren	125	125
38 Greenpoint Works	5	Babcock & Wilcox Co.	600	3000
39 " " "	6	Wicks Boiler Co.	503	3018
40 Skillman Street Sta. N.	1	W. A. Cook	15	15

Green ink Corrections by P. S. C. Accounting Division

Authorized by letter dated 9/18/29 Clerk W.A.S.

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1927

414. Auxiliary Apparatus at Gas Plants - Page 405.

Steam Engines - Sheet #3

	Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Horse Power each (d)	Horse Power (e)
1	Twelfth Street Station	3	Buckeye Engine Company	330	990
2	Third Avenue	1	Erie City Engine Company	130	130
3	"	1	Buckeye Engine Company	248	248
4	"	1	"	282	282
5	Front Street	1	Nagle Engine & Boiler Works	50	50
6	"	1	Atlantic Steam Engine Works	35	35
7	"	1	Porter Engine Company	25	25
8	Rutledge Street	1	N. Y. Safety Steam Power Company	35	35
9	"	1	Fitchburgh Steam Engine Company	115	115
10	Wythe Avenue	2	Buckeye Engine Company	360	720
11	"	2	Harrisburg Foundry & Machine Works	306	612
12	Scholes Street	1	Erie City Engine Company	150	150
13	"	2	Oil City Boiler Works	30	60
14	Belmont Avenue	2	N. Y. Safety Steam Power Company	65	130
15	Jamaica	2	Oil City Boiler Works	16	32
16	Kent Avenue	2	General Electric Company	575	1,150
17	Greenpoint Works	3	B. F. Sturtevant Company	50	150
18	"	3	"	110	330
19	"	5	"	36	180
20	"	3	"	28	84
21	"	6	"	380	2,280
22	"	2	Troy Engine & Machinery Company	No rating	
23	"	3	Harrisburg Foundry & Machine Works	184	552

THE BROOKLYN UNION GAS COMPANY

Insert for the Annual Report to the Public Service Commission

For the Year ended December 31, 1927.

502. *Station Output - Gas - Page 502

	M. Cubic Feet		*Output in 24 Hours	Date
	Produced during Year	Maximum		
	Water Gas	Maximum	Date	Minimum
Citizens Works	5,866,232	25,886	Jan. 27	9,435
Fulton Works	1,635,227	11,305	Mar. 4	987
Nassau Works	5,483,397	22,021	Jan. 27	8,009
Williamsburgh Works	5,770,500	24,723	Jan. 27	9,054
Greenpoint Works	264,599	15,254	Dec. 31	5,711
Equity Works	-	-	-	-
Metropolitan Works	4,710,831	19,017	Jan. 17	6,257
Total	23,730,786	101,319	Jan. 27	39,864
				July 17

* Station make.

503. Production and Sales - Gas
Line 22 - Column (d) - Page 502

The computation of "unaccounted for gas" has been made in the manner required by the printed form, but the respondent points out that such a computation is not suited to the conditions under which it operates.

A special schedule showing the "unaccounted for gas" computed on the basis which is used by the respondent, is given below:

M. Cu. Ft. Water Gas

Gas on hand, January 1, 1927 at 7 A.M.	58,907
Gas made during the year	23,730,786
Total	23,789,693
Send out calendar year	23,719,781
Gas on hand, January 1, 1928 at 7 A.M.	69,912
Send out during sales period:	
Total send out	23,849,698
Less send out to Subsidiary Companies	7,463,066
Send out to consumers	16,386,632

Sales:	
Total sales	22,609,853
Less gas delivered to Subsidiary Companies	7,463,066
Sales to consumers	15,146,787

Gas used by respondent	76,298
Total sold and used	15,223,085
Unaccounted for	1,163,547

The Brooklyn Union Gas Company
Insert for Annual Report to the Public Service Commission
For the Year ended December 31, 1927
512. Important Changes during the Year - Page 506.

Inquiry:

1. Construction has been started on a new coal gas manufacturing plant at the Greenpoint Works, the daily capacity of which will be 20,000,000 cubic feet.
2. A 15,000,000 cubic feet waterless gas holder was put in operation during the year at the Maspeth Avenue Station. The water gas manufacturing plant at Greenpoint Works was put into operation during the year.
3. No transmission lines in process of construction at end of year. Various minor extensions to distribution lines.
4. .18 miles of transmission lines and 11.15 miles of distribution lines were put into operation during the year.
5. None.
6. 164 shares of Common Stock were issued in exchange for \$8,200.00 of 10 Year 7% Convertible Debenture Bonds dated November 1, 1919. P. S. C. Case No. 2365.
784 shares of Common Stock were issued in exchange for \$39,200.00 of 10 Year 7% Convertible Debenture Bonds dated May 1, 1922. P. S. C. Case No. 309.
7. \$8,200.00 of 10 Year 7% Convertible Debenture Bonds, dated November 1, 1919 were converted into Common Stock.
\$39,200.00 of 10 Year 7% Convertible Debenture Bonds, dated May 1, 1922 were converted into Common Stock.
8. \$63,000.00 of U. S. of A. Gold Bonds, 2nd Liberty Loan, acquired in 1918 were sold during the year.
\$7,000.00 of U. S. of A. Gold Bonds, 2nd Liberty Loan, acquired in 1923 were sold during the year. *The selling price for both of above lots of bonds was \$70,000.00*
City of New York 3 1/2% Bonds of the face value of \$70,000.00 were purchased at a cost of \$65,940.00 during the year.
An installment of \$10,000.00 on the real estate mortgage on property located at Ralph and Ditmas Avenues was received during the year.
\$3,000,000.00 of Notes Receivable outstanding at the beginning of the year were converted into cash during the year.
\$16,500,000.00 was borrowed on short term notes from various banks and trust companies during the year, of which \$5,500,000.00 was paid.
9. The Brooklyn Union Gas Company filed in the office of the Secretary of State on December 31, 1927, an amendment to its certificate of incorporation to extend the powers of the Company to operate in the Borough of Queens. A certified copy of the certificate was filed with the Public Service Commission on December 31st, 1927.
10. The Brooklyn Union Gas Company merged as of the close of business December 31, 1927, its following subsidiary companies:
The Flatbush Gas Company,
The Newtown Gas Company,
The Jamaica Gas Light Company,
The Woodhaven Gas Light Company,
Richmond Hill and Queens County Gas Light Company,
Equity Gas Company,
the merger having been approved by the Public Service Commission under date of November 29, 1927, Case No. 4429.
11. The Brooklyn Union Gas Company acquired as of the close of business December 31, 1927, the following franchises of the subsidiary companies merged with it:
THE FLATBUSH GAS COMPANY
From Town of Flatbush, June 6, 1864.
THE NEWTOWN GAS COMPANY
From Commissioners of Highway, Town of Newtown, April 8, 1892.

Green ink Corrections by P. S. C. Accounting Division
Authorized by letter dated 4/4/27 Clerk WAS

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

for the Year ended December 31, 1927

Important Physical Changes Completed during the Year 1927.

Page 506 - Inquiry 12.

Sheet 1

		Expenditures made to Dec. 31, 1927.
1.	<u>Citizens Works</u>	
2.	Installation of fuel handling equipment	\$ 374,928.94
3.	Installation of additional boiler fuel storage	17,225.42
4.	<u>Nassau Works</u>	
5.	Installation of 1 Donnegan & Swift, 15 H.P. steam engine *	632.91
6.	<u>Williamsburgh Works</u>	
7.	Installation of extension to fuel handling plant	129,699.96
8.	Installation of fuel charging apparatus	157,388.94
9.	Installation of ash pocket	149,573.49
10.	Installation of effluent clarifier	30,102.34
11.	<u>Greenpoint Works</u>	
12.	Installation of 6 water gas sets, 20,000,000 cu. ft. capacity	334,451.04
13.	Installation of 1 relief holder, 1,000,000 cu. ft. capacity	286,753.91
14.	Installation of 1 tar tank, 403,892 gals. capacity	18,487.20
15.	Installation of 6 tar tanks, 45,800 gals. capacity each	44,437.45
16.	Installation of 2 oil storage tanks, 1,058,564 gals. capacity each	159,819.71
17.	Installation of 2 Foamite storage tanks, 45,800 gals. capacity each	6,454.02
18.	Installation of 5 B & W, 600 H.P. boilers	253,530.28
19.	Installation of 6 W.H., 503 H.P. boilers	136,920.46
20.	Installation of 3 - 50 H.P. Sturtevant turbines	2,371.09
21.	Installation of 3 - 110 H.P. Sturtevant turbines	2,902.01
22.	Installation of 5 - 36 H.P. Sturtevant turbines	6,464.89
23.	Installation of 3 - 28 H.P. Sturtevant turbines	2,723.58
24.	Installation of 6 - 380 H.P. Sturtevant turbines	5,204.88
25.	Installation of 2 Troy Engine & Machine Co. steam engines (no rating)	817.24
26.	Installation of 3 Harrisburgh Engine & Machine Co., 184 H.P. each	
27.	steam engines	21,037.45
28.	Installation of 2 Connersville Blower Co. gas pumps (revivification),	
29.	4.8 cu. ft. capacity	2,927.08
30.	Installation of 3 Connersville Blower Co. exhausters, 20,400,000	
31.	cu. ft., 24 hours capacity each	38,989.56
32.	Installation of 1 West Traction Brake Co., 9½"x10"x10" compressor	
33.	Installation of 1 West Traction Brake Co., 8½ C.C., 150 cu. ft.	
34.	per min. capacity compressor	555.23

* This engine was installed during year 1926 but was omitted from 1926 report.

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

for the Year ended December 31, 1927

Important Physical Changes Completed during the Year 1927.

Page 506 - Inquiry 12.

Sheet 2

		Expenditures made to <u>Dec. 31, 1927.</u>
1.	<u>Greenpoint Works</u> (Cont'd)	
2.	Installation of 1 West.Traction Brake Co., 6"x5"x10" compressor	\$ 292.73
3.	<u>Maspeth Av. Station</u>	
4.	Installation of 1 holder, 15,000,000 cu. ft. capacity	937,237.18
5.	Installation of 1 Olney & Warren, 125 H.P. boiler	3,457.21

RETIREMENTS

		Credit to <u>Fixed Capital</u>
6.	<u>Fulton Works</u>	
7.	Withdrawal of 1 Alberger turbine, ^{20.6} 125 H.P.	\$ 803.02
8.	Withdrawal of 1 N. Y. Safety engine, ^{17.5} 20.6 H.P.	2,213.97

Report of

The Brooklyn Union Gas Company.

(Here show in full the exact corporate, firm or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at

176 Renssen St., Brooklyn, N. Y.

(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE—STATE DIVISION

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1928

* THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1929

THE BROOKLYN UNION GAS COMPANY
Insert for Annual Report to the Public Service Commission
For the Year ended December 31, 1928
413. Gas Plants - Page 405.

Line No.

COKE OVEN GAS PLANT:

1 Designation of plant:
2 Greenpoint Works Coke Oven Gas Plant
3 Location of plant:
4 Maspeth and Varick Avenues, Brooklyn, N. Y.
5 Rated 24-hour capacity in M cu. ft.:
6 20,000 M. cubic feet
7 Number of furnaces:
8 Number of retorts:
9 Two batteries, each containing 45 ovens, a
10 total of 90 ovens.

WATER GAS PLANTS:

	Designation of plant (f)	Location of plant (including street and No.) (g)	Rated 24-hour capacity M. cu. ft. (h)	Number of water gas sets (i)
11	Citizens Works	433 Hoyt Street, Brooklyn, N. Y.	27,200	10
12				
13	Fulton Works	265 Nevins Street, Brooklyn, N. Y.	13,000	6
14				
15	Nassau Works	556 Kent Avenue, Brooklyn, N. Y.	24,500	9
16				
17	Williamsburgh Works	Foot of North 12th Street, Brooklyn, N. Y.	30,000	12
18				
19	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N. Y.	20,000	6
20				
21	Equity Works	234 Maspeth Avenue, Brooklyn, N. Y.	2,500	4
22				
23	Metropolitan Works	53 Twelfth Street, Brooklyn, N. Y.	27,200	9
24				
25	Total		<u>144,400</u>	<u>56</u>

THE BROOKLYN UNION GAS COMPANY
Insert for Annual Report to the Public Service Commission
For the Year ended December 31, 1928
414. Auxiliary Apparatus at Gas Plants - Page 405.

<u>Holders (works and outlying.)</u>				Capacity	Total
No. of	Designation of Plant	Units	Maker or Builder	Each	Capacity
(a)	(b)	(c)	(d)	(e)	(f)
1	Citizens Works	1	Bartlett Hayward Company	493,000	493,000
2	"	1	"	245,000	245,000
3	Fulton Works	1	Continental Iron Works	252,000	252,000
4	"	1	"	284,000	284,000
5	Williamsburgh Works	1	"	460,000	460,000
6	"	1	Logan Iron Works	1,100,000	1,100,000
7	Metropolitan Works	1	R. D. Wood & Company	370,000	370,000
8	"	1	"	575,000	575,000
9	Twelfth Street Station	1	Bartlett Hayward Company	5,000,000	5,000,000
10	Third Avenue Station	1	"	985,000	985,000
11	Fifth Street Station	1	"	5,000,000	5,000,000
12	Front Street Station	1	Continental Iron Works	580,000	580,000
13	"	1	Logan Iron Works	1,146,000	1,146,000
14	Plymouth Street Station	1	Jesse Starr Company	296,000	296,000
15	"	1	"	299,000	299,000
16	"	1	"	301,000	301,000
17	Rutledge Street Station	1	Bartlett Hayward Company	1,056,000	1,056,000
18	Keap Street Station	1	Continental Iron Works	370,000	370,000
19	Skillman St. Peo's. Sta.	1	Bartlett Hayward Company	553,000	553,000
20	"	1	"	539,000	539,000
21	Wythe Avenue Station	2	"	5,000,000	10,000,000
22	Scholes Street Station	1	"	1,499,000	1,499,000
23	Belmont Avenue Station	1	"	3,250,000	3,250,000
24	Union Station	1	Logan Iron Works	500,000	500,000
25	Maspeth Avenue Station	1	Bartlett Hayward Company	15,000,000	15,000,000
26	Flatbush Station	1	Bartlett Hayward Company	*1,003,000	1,003,000
27	"	2	"	5,000,000	10,000,000
28	Newtown Station	2	"	10,000,000	20,000,000
29	Jamaica Station	1	"	500,000	500,000
<u>Relief Holders</u>					
30	Citizens Works	1	Bartlett Hayward Company	246,000	246,000
31	Fulton Works	1	Thomas F. Howland	100,000	100,000
32	Nassau Works	1	Bartlett Hayward Company	107,000	107,000
33	"	1	"	255,000	255,000
34	Williamsburgh Works	1	Jesse, Starr & Company	315,000	315,000
35	Equity Works	1	Laurel Iron Works	430,000	430,000
36	Metropolitan Works	1	Bartlett Hayward Company	105,000	105,000
37	"	1	Hoey, Kennedy & Company	320,000	320,000
38	Greenpoint Works	1	Bartlett Hayward Company	1,000,000	1,000,000
<u>Producer Gas Holders</u>					
39	Greenpoint Works	1	Western Gas Construction Company	40,000	40,000
40	Coke Oven Plant				

* Capacity corrected

Oil Storage Tanks

Line No.	Designation of Plant	No. of Units	Maker or Builder	Gals. Ea.	Total Capacity
1	Citizens Works	1	Not known	*252,000	252,000
2	"	1	"	*441,000	441,000
3	"	1	"	*685,000	685,000
4	Fulton Works	1	Continental Iron Works	*39,968	39,968
5	"	1	"	*39,968	39,968
6	"	1	"	*157,518	157,518
7	"	1	C. Cunningham & Sons	*236,849	236,849
8	"	1	"	512,142	512,142
9	"	1	Continental Iron Works	39,716	39,716
10	"	5	Bartlett Hayward & Company	20,000	100,000
11	"	4	"	10,000	40,000
12	Nassau Works	1	"	*201,685	201,685
13	"	1	Not known	*201,685	201,685
14	"	1	"	*158,630	158,630
15	"	1	"	*158,630	158,630
16	Williamsburgh Works	1	"	341,000	341,000
17	"	1	C. Cunningham Boiler Works	282,000	282,000
18	"	1	Bartlett Hayward Company	675,000	675,000
19	"	5	"	*22,500	112,500
20	Equity Works	1	Not known	28,000	28,000
21	"	1	"	28,000	28,000
22	"	1	"	153,000	153,000
23	Metropolitan Works	1	Logan Iron Works	*230,307	230,307
24	"	1	Not known	151,139	151,139
25	"	1	Bartlett Hayward Company	513,962	513,962
26	Greenpoint Works	2	"	1,058,564	2,117,128
27	Greenpoint Works	2	Bartlett Hayward Company	45,800	91,600
Foamite Storage Tanks					
28	Greenpoint Works	5	The Koppers Construction Company	20,000	100,000
29	Coke Oven Plant				
30	Greenpoint Works	1	The Koppers Construction Company	260,000	260,000
31	Coke Oven Plant				

* - Capacities corrected.

Ammonia Liquor Storage Tanks

Acid Storage Tanks

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1928

414. Auxiliary Apparatus at Gas Plants - Page 405

Tar Tanks - Sheet #2

Line No.	Designation of Plants (a)	No. of Units (b)	Maker or Builder (c)	Gallons Each Capacity (d)	Total Capacity (e)
1	Metropolitan Works	1	C. Cunningham & Sons	24,179	24,179
2	"	1	Not known	3,384	3,384
3	"	1	Logan Iron Works	*129,548	129,548
4	"	1	Bartlett Hayward Company	105,469	105,469
5	"	1	Not known	900	900
6	"	x 3	Bartlett Hayward Company	* 44,064	132,192
7	"	x 5	"	* 22,500	112,500
8	"	x 1	"	* 31,680	31,680
9	Greenpoint Works -	6	Bartlett Hayward Company	* 46,998	281,988
10	Water Gas Plant	1	"	403,892	403,892
11	"	o 2	"	269,000	538,000
12	"	o 1	"	81,900	81,900
13	"	1	Brooklyn Union Gas Company	930	930
14	Greenpoint Works -				
15	Coke Oven Gas Plant	1	The Koppers Construction Co.	550,000	550,000

x Formerly reported as Oil Tanks.

* Capacities corrected.

o Omitted on previous report.

THE BROOKLYN UNION GAS COMPANY
Insert for Annual Report to the Public Service Commission
For the Year ended December 31, 1928
414. Auxiliary Apparatus at Gas Plants - Page 406.

Boilers

	Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Horse Power each (d)	Total Horse (e)
1	Citizens Works	3	Babcock and Wilcox Company	335	1005
2	" "	6	" " "	600	3600
3	Fulton Works	2	Sterling Consolidated Boiler Co.	300	600
4	" "	1	Babcock and Wilcox Company	309	309
5	" "	2	Heine Boiler Company	265	530
6	" "	2	Babcock and Wilcox Company	350	700
7	Nassau Works	3	Aultman and Taylor	250	750
8	" "	2	Sterling Consolidated Boiler Co.	414	828
9	" "	1	Heine Boiler Company	358	358
10	" "	1	" " "	560	560
11	" "	2	Wickes Boiler Company	503	1006
12	" "	1	" " "	482	482
13	Williamsburgh Works	5	Babcock and Wilcox Company	414	2070
14	" "	4	Aultman and Taylor	250	1000
15	" "	1	Heine Boiler Company	504	504
16	" "	1	" " "	564	564
17	" "	2	Wickes Boiler Company	503	1006
18	Equity Works	2	Babcock and Wilcox Company	165	330
19	" "	1	" " " "	309	309
20	Metropolitan Works	4	" " " "	335	1340
21	" "	4	" " " "	440	1760
22	" "	2	Heine Boiler Company	482	964
23	Greenpoint Works-				
24	Water Gas Plant	5	Babcock and Wilcox Company	600	3000
25	" " "	6	Wickes Boiler Company	503	3018
26	Coke Oven Plant	7	" " "	175	1225
27	Third Avenue Station	2	Hazelton Boiler Company	125	250
28	Front Street Station	2	Atlantic Steam Engine Works	70	140
29	Plymouth Street "	1	Logan Iron Works	50	50
30	Rutledge Street "	2	P. J. Donohue and Sons	85	170
31	Keap Street Station	*1	Kane Manufacturing Company	4	4
32	Skilman St. Pco's.Sta.	2	Coatsville Boiler Works	65	130
33	Wythe Avenue Station	2	Babcock and Wilcox Company	207	414
34	" " "	2	" " " "	297	594
35	Scholes Street Station	2	Hazelton Boiler Company	50	100
36	" " "	1	" " "	250	250
37	" " "	*1	Bryant Manufacturing Company	5 1/2	5 1/2
38	" " "	*1	American Radiator Company	20	20
39	Belmont Avenue Station	2	Hazelton Boiler Company	100	200
40	Union Station	1	Continental Iron Works	40	40
41	" "	1	Erie City Iron Works	100	100
42	Maspeth Avenue Station	1	Olney & Warren	125	125
43	Flatbush Station	2	Babcock and Wilcox Company	250	500
44	Newtown Station	2	Aultman and Taylor	250	500
45	Jamaica Station	2	Hazelton Boiler Company	50	100

*Gas Fired Boilers.

THE BROOKLYN UNION GAS COMPANY
Insert for Annual Report to the Public Service Commission
For the Year ended December 31, 1928
414. Auxiliary Apparatus at Gas Plants - Page 405

Steam Engines - Sheet #2

Line No.	Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Horse Power Each (d)	Total Horse Power (e)
1	Nassau Works	1	Dake Engine Company	10	10
2	" "	1	General Electric Company	27.5	27.5
3	" "	1	" " "	335	335
4	" "	3	" " "	60	180
5	Williamsburgh Works	2	Buckeye Engine Company	250	500
6	" "	4	" " "	150	600
7	" "	2	Greenfield Engine Company	15	30
8	" "	1	" " "	10	10
9	" "	2	B. F. Sturtevant Company	300	600
10	" "	4	" " "	185	740
11	" "	3	Terry Turbine Engine Company	185	555
12	" "	1	C. W. Hunt	56	56
13	" "	3	Alberger Pump & Condenser Company	71	213
14	" "	3	" " "	43	129
15	" "	1	Donegan and Swift	15	15
16	" "	1	General Electric Company	20	20
17	" "	1	Mead-Morrison Manufacturing Company	56	56
18	" "	3	General Electric Company	45	135
19	Equity Works	2	N. Y. Safety Steam Power Company	50	100
20	" "	2	James Beggs	40	80
21	" "	2	N.Y. Safety Steam Power Company	20	40
22	Metropolitan Works	1	Harrisburgh Foundry & Machine Works	120	120
23	" "	7	Terry Turbine Engine Company	412	2884
24	" "	2	Buckeye Engine Company	120	240
25	" "	1	B. F. Sturtevant Company	45	45
26	" "	2	Westinghouse Elec. & Manfg. Company	200	400
27	" "	1	Terry Turbine Engine Company	185	185
28	" "	1	B. F. Sturtevant Company	200	200
29	" "	1	Mead-Morrison Manufacturing Company	75	75
30	" "	1	Alberger Pump & Condenser Company	70	70
31	" "	1	" " " "	75	75
32	" "	3	" " " "	50	150
33	" "	2	" " " "	49	98
34	" "	1	" " " "	80	80
35	" "	1	General Electric Company	27.5	27.5
36	Greenpoint Works	3	B. F. Sturtevant Company	50	150
37	" "	3	" " "	110	330
38	" "	5	" " "	38	190
39	" "	3	" " "	28	84
40	" "	6	" " "	380	2280
41	" "	2	Troy Engine & Machinery Company	No rating	---
42	" "	3	Harrisburgh Foundry & Machine Works	184	552
43	" "	x3	B. F. Sturtevant Company	18	54
44	" "	x3	" " "	75	225
45	" "	1	" " "	163	163
46	" "	1	" " "	121	121

THE BROOKLYN UNION GAS COMPANY

Insert for the Annual Report to the Public Service Commission

For the Year ended December 31, 1928

502. *Station Output - Gas - Page 502.

Line No.	Name of station (a)	Water Gas (c)	Coke Oven Gas (d)	All kinds of Gas (e)
1	Citizens Works	6,010,823		6,010,823
2	Fulton Works	44,862		44,862
3	Nassau Works	5,731,208		5,731,208
4	Williamsburgh Works	3,450,457		3,450,457
5	Equity Works	-		-
6	Metropolitan Works	1,176,313		1,176,313
7	Greenpoint Works	6,671,236	740,403	7,411,639
8	Total	<u>23,084,899</u>	<u>740,403</u>	<u>23,825,302</u>
9	Maximum 24-hour send-out	✓ 91,079 M cu. ft.	January 21, 1928	
10	Minimum 24-hour send-out	37,261 M cu. ft.	August 5, 1928	

* Station Make

✓ Given in total only, because all stations are tied
into one distribution system.

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1928

512. Important Changes during the Year - Page 506

Inquiry:

1. Various minor improvements.
 2. The coke oven plant at Greenpoint Works comprising 90 ovens of a total daily capacity of 20,000,000 cu. ft. was put into operation during the year.
 3. The following transmission lines were in process of construction at the end of the year:
 - 12" main -3470 feet of a total of 3820 feet running along Ascan Avenue from Queens Boulevard to Metropolitan Avenue.
 - 30" main-296 feet of a total of 4534 feet running along Newkirk Avenue from New York Avenue to East 31st Street for a distance of 505 feet; then along East 31st Street to Flatbush Avenue for a distance of 2986 feet; then along Flatbush Avenue to Avenue "I" for a distance of 1043 feet.
- There were various minor extensions to the distribution lines in process of construction at the end of the year.
4. 2.39 miles of transmission lines and 51.94 miles of distribution lines were put into operation during the year.
 5. None.
 6. 10 shares of Common Stock were issued in exchange for \$500.00 of Ten Year 7% Convertible Debenture Bonds, dated November 1, 1919; P.S.C. Case No. 2365.
112 shares of Common Stock were issued in exchange for \$5,600.00 of Ten Year 7% Convertible Debenture Bonds, dated May 1, 1922; P.S.C. Case No. 309.
 7. \$500.00 of Ten Year 7% Convertible Debenture Bonds, dated November 1, 1919 were converted into Common Stock.
\$5,600.00 of Ten Year 7% Convertible Debenture Bonds, dated May 1, 1922 were converted into Common Stock.
 8. An installment of \$10,000.00 on the real estate mortgage on property located at Ralph and Ditmas Avenues was received during the year.
\$54,750,000.00 was borrowed on short term notes from various banks and trust companies during the year.
\$42,750,000.00 borrowed on short term notes was paid during the year.
 9. ----
 10. ----
 11. None.
 12. See inserts.
 13. No.
 14. No.
 15. None.

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

for the Year ended December 31, 1928

Important Physical Changes Completed during the Year 1928.

Page 506 - Inquiry 12.

Sheet 1

INSTALLATIONS

Expenditures
made to
Dec. 31, 1928.

Williamsburgh Works

Brick tank and foundation of #1 relief holder for collecting waste \$ 29,795.80

Greenpoint Works - Coke Oven Plant

Charging laries at ovens (2) 42 tons each	28,715.21
Coal and coke storage	2,974,972.26
Quenching cars (2) 10 tons each	62,573.49
Quenching station	234,605.33
Coke ovens - 2 batteries of 45 ovens each	2,519,528.11
Producers (7) Koppers 10" Kupely type & 7 Waste heat Boilers	1,018,979.32
Producers gas boosters, turbine driven, cap, 1,060,000 cu.ft.	
per hour each	187,186.45
Producers gas holder, capacity 40,000 cu. ft.	86,837.99
Primary coolers (3) 9'5" x 45'6" x 16'	115,075.21
By-Product Building	667,443.91
Tar extractors (2) 8' x 27'	11,846.51
Feld Washer (1) capacity 15,000,000 cu.ft. per day	46,226.18
Reheaters (2) 6' x 19' 3"	389.52
Sulphate machinery - By Product building	101,991.14
Final coolers (3) 9'5" x 45'6" x 16'	67,818.37
Flushing liquor decanter and collecting tank 20'x45'x10'cap.40,000gal.	100,423.08
Light tar decanter 7'x27'6"x9' capacity 12,000 gals.	5,301.89
Tar collecting tank 8'x27' capacity 10,000 gals.	7,127.87
Ammonia liquor c collecting tank 8'x27' capacity 10,000 gals.	27,461.42
Tar storage tank 54'x33'6" capacity 550,000 gals.	40,765.81
Weak ammonia liquor storage tank 37'x33'6" capacity 260,000 gals.	19,182.68
Ammonia liquor feed tank capacity 1,000 gals.	8,646.72
Mother liquor tank and feed box capacity 7,500 gals.	20,840.41
Mother liquor drain tank 3' x 5'	197.03
Acid feed tank 6' x 10'	4,079.90
Acid storage tanks (5) 10' x 34' capacity 20,000 gals. each	55,036.84
Fresh oil tank 7'6" x 22'6" capacity 7,500 gals.	5,091.62
Spent Oil tank 7'6" x 22'6" capacity 7,500 gals.	4,609.18
Fire pumps (2)	13,987.24
Gas connections	372,332.18
Office building	714.75
Laboratory	7,304.53
Sub Station "A"	114,637.58
Salt water pump house and enclosure for sub-station "D"	88,847.58

THE BROOKLYN UNION GAS COMPANY

Insert for Annual Report to the Public Service Commission

For the Year ended December 31, 1928

Important Physical changes completed during the Year 1928.

Page 506 - Inquiry 12.

Sheet 2

INSTALLATIONS - Cont'd.

Expenditures
made to
Dec. 31, 1928

1.	<u>Greenpoint Works</u>	
2.	Clock, gate and first aid building	\$ 13,640.78
3.	Sub Station B,C,D & G	287,448.27
4.	Ash Pocket	37,971.80
5.	Dock house and sampling laboratory	53,540.71
6.	Vacuum pumps Salt water pump house	1,368.17
7.	Sump Pump " " " "	706.65
8.	Pump house for Naphthalene scrubbers	19,395.05
9.	Waste liquor settling basin	38,063.91
10.	Truck scale at screening station	23,975.80
11.	Naphthalene separating pump	9,864.45
12.	<u>Scholes St. Station</u>	
13.	1 - 5½ H.P. Bryant gas fired boiler	723.20
14.	1 - 20 " American Radiator Co. gas fired boiler	5,022.99
15.	<u>Wythe Ave. Station</u>	
16.	4 speed governors with by-pass connections on exhauster engines, #1,2,3&4	5,576.54
	<u>RETIREMENTS</u>	
17.	<u>Williamsburgh Works</u>	
18.	#1 Relief holder, capacity 306,000 cu. ft.	57,885.38
19.	#13 Sturtevant steam engine	634.77
20.	#16 Armington & Sims steam engine	923.76
21.	1 - 12" x 26" horizontal steam engine	340.00
22.	<u>Skillman St. Nassau Station</u>	
23.	1 Holder 304,000 cu.ft. capacity	110,295.04
24.	1 Boiler - 15 H.P.	299.02
25.	<u>Jamaica Station</u>	
26.	2 - 8" x 9" Oil City Boiler Works steam engines	1,412.00
27.	<u>Jamaica Branch</u>	
28.	Garage building at rear of property, overhead bridge connecting office	
29.	and garage, freight elevator and enclosure, iron fence on 162nd St.	
30.	and portions of side and rear walk of office building.	15,856.00

Report for the Year Ended December 31, 1928

602. STATION OUTPUT — GAS.

See insert

M cu. ft.

Show the particulars called for concerning the production of gas during the year of each of the several stations operated, stating quantities of gas in units of M cu. ft.

Name of station (a)	M cu. ft. produced during year			All kinds of gas (e)	Maximum 24-hour send-out.....M cu. ft. Date.....	Minimum 24-hour send-out.....M cu. ft. Date.....	Line No.
	Coal gas (b)	Water gas (c)	(d)				
							1
							2
							3
							4
							5
							6
							7
Totals							

603. PRODUCTION AND SALES — GAS.

1. Show the particulars called for concerning gas made, sold, and used during the year, stating quantities in units of M cu. ft.

2. A company serving widely separated communities in which are stations producing the same kind of gas should use, in reporting data ll. 11 to 24, a separate column for each producing plant.

Name of station (a)	M cu. ft. coal gas (b)	M cu. ft. water gas (c)	Coke oven gas (d)	(e)	(f)	Totals (g)	Line No.
On hand at beginning of year						69,912	11
Made during year			23,084,899			23,825,302	12
Purchased from associated companies							13
Purchased from other than associated cos.							14
Transferred from associated companies						23,895,214	15
Total available for distribution						22,406,166	16
Sold to associated companies							17
Other sales							18
Transferred to associated companies							19
Supplied without direct charge							20
Used by respondent						76,945	21
Lost and unaccounted for						1,346,807	22
Total, items 17 to 22, incl.						23,829,918	23
On hand at end of year						65,296	24

Designation of municipality or lighting district

Number of flat-rate consumers †	Total length of distribution mains †	Gas supplied and used:	Metered sales to general consumers	Flat-rate sales to general consumers	Prepaid gas sales	Other gas corporations sales	Municipal street lighting	Miscellaneous municipal sales	Transferred to associated companies	Supplied without direct charge	Gas used by respondent	Total gas supplied and used	Total (m)	Line No.
5,142,218	1,859,733												700,191	31
1,201.95	821.24												2,023.19	32
M cu. ft.	M cu. ft.												M cu. ft.	33
16,652,769	5,598,820												22,251,589	34
34,629	372												35,001	35
43,311													43,311	36
18,010													18,010	37
50,269	7,986												58,255	38
														39
														40
														41
														42
														43
														44

604. RESIDUALS.

Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.

Item (a)	Coke (tons) (b)	Coal gas tar (gals.) (c)	Water gas tar (gals.) (d)	Ammoniacal liquor (gals.) (e)	Carbon (lbs.) (f)	Drip oil (gals.) (g)	Sulphate Net (b) Tons	Line No.
On hand at beginning of year								50
Made during year	47	703	82			56	204	51
Used during year	22	582	24			712	380	52
Sold during year	1	726	30					53
On hand at end of year	23	395	28			765	187	54
Credits on account of residuals produced	359	846	80	25	421	633	1,093	55
Residuals expense	12	181	14			3	397	56
Receipts from sales	12	947	25	4	145	00	350	57
Average selling price	7	50		05		84	05	58

† At end of year; length of distribution mains to be stated in miles and hundredths. * Through account No. 713.

* This item covers coal gas tar and sulphate and cannot be separated

THE BROOKLYN UNION GAS COMPANY

Insert for the Annual Report to the Public Service Commission

For the Year ended December 31, 1928

502. *Station Output - Gas - Page 502.

Line No.	Name of station (a)	Water Gas (c)	Coke Oven Gas (d)	All kinds of Gas (e)
1	Citizens Works	6,010,823		6,010,823
2	Fulton Works	44,862		44,862
3	Nassau Works	5,731,208		5,731,208
4	Williamsburgh Works	3,450,457		3,450,457
5	Equity Works	-		-
6	Metropolitan Works	1,176,313		1,176,313
7	Greenpoint Works	6,671,236	740,403	7,411,639
8	Total	<u>23,084,899</u>	<u>740,403</u>	<u>23,825,302</u>
9	Maximum 24-hour send-out	✓ 91,079 M cu. ft.	January 21, 1928	
10	Minimum 24-hour send-out	37,261 M cu. ft.	August 5, 1928	

* Station Make

✓ Given in total only, because all stations are tied into one distribution system.

ELECTRICAL CORPORATIONS AND GAS CORPORATIONS
CLASSES A, B, AND C

YEAR ENDED
DECEMBER 31, 1929

Report of The Brooklyn Union Gas Company
(Here show in full the exact corporate, firm or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at 176 Remsen St. Brooklyn, N.Y.
(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE—STATE DIVISION
Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1929

Arthur F. Staniford	176 Remsen St., Brooklyn, N.Y.	do
Stanley P. Jadwin	11 Vestry St., New York	do
Adrian H. Larkin	70 Broadway, New York	do
Percival J. McIntosh	Hotel Plaza, 59 th St. & 5 th Av. N.Y.	do
Frederick R. Wogan	176 Remsen St., Brooklyn, N.Y.	do

7. State whether respondent is a corporation, a joint-stock company, or association, a partnership, or an individual. If a corporation or association, state	Date of incorporation; (a) Date of incorporation; (b) Under laws of what State incorporated;	Sept. 7, 1895	New York	A Corporation Transportation Corporations Law
8. State whether the respondent is a consolidated or merging company; and for each (d) give like particulars as required of the ownership or control of capital stock, or through leases of more than one hundred years, or otherwise, where such corporations do not maintain separate organizations even for financial purposes, and where no distinction is made in operating or accounting and the original separate incorporation is completely ignored, may be included here if fully explained.)	(c) Whether incorporated under a special or a general law, and give designation of such law;	(a) the authority for each consolidation or merger; (c) names all applicant and merged companies, and for each (d) give like particulars as required of the ownership or control of capital stock, or through leases of more than one hundred years, or otherwise, where such corporations do not maintain separate organizations even for financial purposes, and where no distinction is made in operating or accounting and the original separate incorporation is completely ignored, may be included here if fully explained.)	(b) the date and (c) the authority for each consolidation or merger; (c) names all applicant and merged companies, and for each (d) give like particulars as required of the ownership or control of capital stock, or through leases of more than one hundred years, or otherwise, where such corporations do not maintain separate organizations even for financial purposes, and where no distinction is made in operating or accounting and the original separate incorporation is completely ignored, may be included here if fully explained.)	(c) Whether incorporated under a special or a general law, and give designation of such law;

*The subsidiary companies of the respondent were merged with the parent company;
(a) At the close of business December 31, 1927.

(b) Under authority of an order of the Public Service Commission dated November 29, 1927, Case No. 44229		
(c) The companies merged with the respondent were: (d) Incorporated; Under laws of: Designation of Law:		
The Newtown Gas Company	Apr. 6, 1891, N.Y.	Act of Legislature, Feb. 16, 1848
Richmond Hill & Queens County Gas Light Co.	Feb. 18, 1896	Transportation Corporations Law
The Jamaica Gas Light Company	Feb. 18, 1856	Act of Legislature, Feb. 16, 1848
The Woodhaven Gas Light Company	Aug. 30, 1871	do
The Flatbush Gas Company	Mar. 31, 1864	do
Equity Gas Company	May 29, 1896	do

9. State whether the respondent is a reorganized company, and if so, give (a) the name of the original corporation and (b) the date of reorganization; (c) refer to the laws under which it was reorganized; state (d) the occasion of the reorganization, whether because of foreclosure of mortgage or otherwise, giving full particulars.

No

X On Nov. 4, 1895, this company acquired through the exercise of the purchase of seven gas companies in the City of Brooklyn. The company also acquired, from 1895 to 1897, the following subsidiary companies, which later were merged with the parent company.

19. State if at the close of the year, or at any time during the year, the respondent was subject to a relationship or other trust, (a) the date of creation of such relationship or other trust, (b) the authority by which created, and (c) the date when termination under it was acquired.

No

Green ink Corrections by P. B. G. Accounting Division
Authorized by letter dated 12/1/20. Clerk. *P.B.G.*

413 - Water Gas Plants

Line No.	Designation of plant (f)	Location of plant (Including street & number) (g)	Rated 24-hour capacity M.cu.ft. (h)	Number of water gas sets (i)
1	Citizens Works	433 Hoyt Street, Brooklyn, N. Y.	27,200	10
2	° Fulton Works	265 Nevins Street, Brooklyn, N. Y.	13,000	6
3	Nassau Works	556 Kent Avenue, Brooklyn, N. Y.	24,500	9
4	Williamsburgh Works	Foot of North 12th St., Brooklyn, N.Y.	30,000	12
5	Greenpoint Works	Maspeth & Varick Avenues, B'klyn, N.Y.	20,000	6
6	° Metropolitan Works	53 Twelfth St., Brooklyn, N. Y.	27,200	9
7				
8	Total		<u>141,900</u>	<u>52</u>

Coke Oven Gas Plant

(j) Designation of plant

Greenpoint Works Coke Oven Plant

(k) Location of plant

Maspeth and Varick Avenues, Brooklyn, N.Y.

(l) Rated 24-hour capacity in M. cu.ft.

20,000 M. cu.ft.

(m) Number of batteries:

(n) Number of ovens:

Two batteries, each containing 45 ovens, a total of 90 ovens.

(o) Maintained as a stand-by station.

414. Auxiliary Apparatus at Gas Plants - Holders

Line No.	Designation of plant	No. of Units	Maker or builder	Capacity each	Total Capacity
1	Works and outlying holders				
2	Citizens Works	1	Bartlett-Hayward Company	493,000	738,000
3	"	1	"	245,000	
4	"	1	Continental Iron Works	284,000	
5	Fulton Works	1	"	252,000	536,000
6	"	1	"	460,000	
7	Williamsburgh Works	1	Logan Iron Works	1,100,000	1,560,000
8	"	1	R. D. Wood & Company	370,000	
9	Metropolitan Works	1	"	575,000	945,000
10	"	1	Bartlett-Hayward Company	5,000,000	5,000,000
11	Twelfth Street Station	1	"	985,000	985,000
12	Third Avenue Station	1	"	5,000,000	5,000,000
13	Fifth Street Station	1	"	580,000	
14	Front Street Station	1	Continental Iron Works	1,146,000	1,726,000
15	"	1	Logan Iron Works	296,000	
16	Plymouth Street Station	1	Jesse Starr Company	299,000	
17	"	1	"	301,000	896,000
18	"	1	"	553,000	
19	Skilman St. Peoples Sta.	1	Bartlett-Hayward Company	553,000	1,092,000
20	"	1	"	5,000,000	10,000,000
21	Wythe Avenue Station	2	"	1,499,000	1,499,000
22	Scholes Street Station	1	"	3,250,000	3,250,000
23	Belmont Avenue Station	1	"	15,000,000	15,000,000
24	Maspeh Avenue Station	1	"	5,000,000	
25	Flatbush Station	2	"	1,003,000	11,003,000
26	"	1	"	10,000,000	20,000,000
27	Newtown Station	2	"	500,000	500,000
28	Jamaica Station	1	"		
29	Total	29			79,730,000
30	Holder Holders				
31	Citizens Works	1	Bartlett-Hayward Company	246,000	246,000
32	Fulton Works	1	Thomas F. Rowland	100,000	100,000
33	Nassau Works	1	Bartlett-Hayward Company	107,000	255,000
34	"	1	"	315,000	315,000
35	Williamsburgh Works	1	Jesse Starr Company	1,000,000	1,000,000
36	Greenpoint Works	1	Bartlett-Hayward Company	105,000	425,000
37	Metropolitan Works	1	"	320,000	
38	"	1	Hoey, Kennedy & Company		
39	Total	8			2,448,000
40	Producer Gas holders				
41	Greenpoint Works coke oven plant	1	Western Gas Construction Company	40,000	40,000

414 - Auxiliary Apparatus at Gas Plants - Tanks

Designation	No. of Units	Maker or Builder	Capacity each	Total Capacity
<u>Gas Tanks</u>				
Citizens Works	1	Not known	252,000	252,000
"	1	"	441,000	441,000
"	1	"	665,000	665,000
Pulston Works	1	Continental Iron Works	38,866	38,866
"	1	"	38,866	38,866
"	1	"	157,518	157,518
"	1	C. Cunningham	236,648	236,648
"	1	"	512,142	512,142
"	1	Continental Iron Works	38,716	38,716
"	5	Bartlett Hayward Company	20,000	100,000
"	4	"	10,000	40,000
Kearney Works	1	Not known	201,665	201,665
"	1	"	201,665	201,665
"	1	"	156,630	156,630
"	1	"	156,630	156,630
Williamsburgh Works	1	"	241,000	241,000
"	1	C. Cunningham	262,000	262,000
"	1	Bartlett Hayward Company	675,000	675,000
"	5	"	22,500	112,500
Metropolitan Works	1	Logan Iron Works	230,307	230,307
"	1	Not known	151,139	151,139
"	1	Bartlett Hayward Company	513,962	513,962
Greenpoint Works	2	"	1,056,564	2,113,128
<u>Total</u>				
25				4,667,687
<u>Acid Storage Tanks</u>				
Greenpoint Works	2	Bartlett Hayward Company	45,800	91,600
<u>Ammonia Storage Tanks</u>				
Greenpoint Works	5	The Koppers Construction Company	20,000	100,000
<u>Greenpoint Works coke oven plant</u>				
Greenpoint Works coke oven plant	1	The Koppers Construction Company	260,000	260,000
<u>Gas Tanks</u>				
Citizens Works	1	Not known	21,000	21,000
"	1	"	60,000	60,000
"	5	"	12,000	60,000
"	1	"	50,000	50,000
"	2	"	27,000	54,000
"	2	"	2,500	5,000
"	2	"	500	1,000
"	1	"	5,400	5,400
"	3	"	37,500	112,500
"	1	"	4,500	4,500
"	5	"	20,000	100,000
"	4	"	10,000	40,000

414 - Auxiliary Apparatus at Gas Plants - Tanks

Line No.	Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Capacity each (d)	Total capacity (e)
1	<u>Tar tanks (Continued)</u>				
2	<u>Fulton Works</u>				
3	"	1	C. Cunningham & Sons	20,000	20,000
4	"	2	Continental Iron Works	105,139	105,139
5	"	4	"	39,968	79,936
6	"	1	"	8,328	33,312
7	"	1	C. Cunningham & Sons	10,000	10,000
8	"	2	Continental Iron Works	5,552	5,552
9	"	2	"	2,500	5,000
10	Nassau Works	x 1	"	32,100	32,100
11	"	1	Not known	100,000	200,000
12	"	1	"	187,810	187,810
13	"	1	"	22,810	22,810
14	"	1	"	11,520	11,520
15	"	1	"	7,077	7,077
16	"	2	"	8,812	8,812
17	"	1	"	39,657	79,314
18	"	1	"	11,423	11,423
19	"	1	"	7,935	7,935
20	"	1	"	23,950	23,950
21	"	1	"	39,657	39,657
22	"	1	Bartlett Hayward Co.	30,080	30,080
23	Williamsburgh Works	1	"	22,464	22,464
24	"	2	Logan Iron Works	225,000	225,000
25	"	1	C. L. Rowland	6,400	12,800
26	"	1	Bartlett Hayward Co.	43,000	43,000
27	"	1	"	30,900	30,900
28	"	2	Not known	5,700	11,400
29	"	1	"	22,700	22,700
30	"	1	"	11,400	11,400
31	"	1	Bartlett Hayward Co.	1,550	1,550
32	"	1	C. Cunningham & Sons	21,800	21,800
33	Metropolitan Works	1	C. L. Rowland	158,000	158,000
34	"	1	C. Cunningham & Sons	24,179	24,179
35	"	1	Not known	3,384	3,384
36	"	1	Logan Iron Works	129,548	129,548
37	"	1	Bartlett Hayward Co.	105,469	105,469
38	"	3	Not known	900	900
39	"	5	Bartlett Hayward Co.	44,064	132,192
40	"	1	"	22,500	112,500
41	Greenpoint Works water	6	"	31,680	31,680
42	gas plant	1	"	46,998	281,988
43	"	2	"	403,892	403,892
44	"	1	"	269,000	538,000
45	"	1	"	81,900	81,900
46	"	1	Brooklyn Union Gas Co.	930	930
47	Greenpoint Works coke				
48	oven plant	1	The Koppers Construction Co.	550,000	550,000
49					
50	Total	94			4,392,403

x - Capacity corrected

Note: One ton tank, capacity 8,350 gallons located at the Williamsburgh Works and listed in the 1928 report for Greenpoint Works.

Report for the Year Ended December 31, 1927

102. VOTING POWERS AND CONTROL.

1. State separately the kinds of stock and the par value of a share of each kind. **Common Stock of no par value**

2. State whether or not each share of stock has the right to one vote. **Yes** If not, give full particulars. **-**

3. Are voting rights proportional to holdings? **Yes** If not, attach a memorandum stating the relation between holdings and corresponding voting rights. **-**

4. Are voting rights attached to any securities other than stock? **No.** If so, name each security other than stock to which voting rights are attached (as of the year), and state in detail the relation between holdings and corresponding voting rights, stating whether voting rights are actual or contingent, and if contingent showing the contingency. **-**

5. Has any class or issue of securities any special privileges in the election of directors, trustees, or managers, or in the determination of corporate action by any method? **No.** If so, describe fully each such class or issue and give a succinct statement showing clearly the character and extent of such privileges. **-**

6. Give the date of the latest closing of the stock-book prior to the actual filing of this report.

Books were not closed

7. Give for each class of stock the total number of stockholders at the date of such closing if within one year; if not, state as of the end of the year.

Common	{	Voting..... 2,903			{	Voting.....	
Non-voting.....	-		(Class)	-	Preferred	Non-voting.....	
						(Class)	Preferred
							{
							Voting.....
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414. Auxiliary Apparatus at Gas Plants - Boilers

Line No.	Designation of Plant (a)	No. of Units (b)	Maker or builder (c)	Horse power each (d)	Total horse power (e)
1	Citizens Works	3	Babcock and Wilcox Company	335	1,1
2	"	6	" " "	600	3,
3	Fulton Works	2	Sterling Consolidated Boiler Co.	300	
4	"	1	Babcock and Wilcox Company	309	
5	"	2	Heine Boiler Company	265	
6	"	2	Babcock and Wilcox Company	350	
7	Nassau Works	3	Aultman and Taylor	250	
8	"	2	Sterling Consolidated Boiler Co.	414	
9	"	1	Heine Boiler Company	358	
10	"	1	"	560	
11	"	2	Wickes Boiler Company	503	1
12	"	1	"	482	
13	Williamsburgh Works	5	Babcock and Wilcox Company	414	2
14	"	4	Aultman and Taylor	250	1
15	"	1	Heine Boiler Company	504	
16	"	1	"	564	
17	"	2	Wickes Boiler Company	503	1
18	Metropolitan Works	4	Babcock and Wilcox Company	335	1
19	"	4	"	440	1
20	"	2	Heine Boiler Company	482	
21	Greenpoint Works:				
22	Water gas plant	5	Babcock and Wilcox Company	600	2
23	"	6	Wickes Boiler Company	503	2
24	"	7	"	175	1
25	Coke oven plant				
26	Third Avenue Station	2	Hazelton Boiler Company	125	
27	Front Street Station	2	Atlantic Steam Engine Works	70	
28	Plymouth Street Station	1	Logan Iron Works	50	
29	Skillman St. Peoples Sta.	2	Coatesville Boiler Works	85	
30	Wythe Avenue Station	2	Babcock and Wilcox Company	207	
31	"	2	"	297	
32	Scholes Street Station	2	Hazelton Boiler Company	50	
33	"	1	"	250	
34	"	1	Bryant Heater Mfg. Co.	5 1/2	
35	"	1	American Radiator Company	20	
36	Belmont Avenue Station	2	Hazelton Boiler Company	100	
37	Flatbush Station	2	Babcock and Wilcox Company	250	
38	Newtown Station	2	Aultman and Taylor	250	
39	Jamaica Station	2	Hazelton Boiler Company	50	
40	Total	<u>91</u>			<u>3</u>

* Gas fired boilers.

102. Voting Powers and Control
Inquiry 9. Ten Highest Voting Powers

Line No.	Name of Member (a)	Address of Member (b)	Number of Votes to which member was entitled (c)
1	Bexley Co.	650 Koppers Bldg., Pittsburgh, Pa.	50,000
2	Falmouth Co.	612 Koppers Bldg., Pittsburgh, Pa.	50,000
3	Gregory Co.	650 Koppers Bldg., Pittsburgh, Pa.	50,000
4	Koppers Gas & Coke Co.	Union Trust Bldg., Pittsburgh, Pa.	20,000
5	Otis & Co.	15 Nassau St., New York, N. Y.	15,715
6	W. J. Wollman & Co.	120 Broadway, New York, N. Y.	14,980
7	Sun Life Assurance Co. of Canada	Dominion Square, Montreal, Canada	14,780
8	Hirsch, Lillenthal & Co.	165 Broadway, New York, N. Y.	8,230
9	Esmont Company	650 Koppers Bldg., Pittsburgh, Pa.	7,940
10	E. R. Schulz & Co.	c/o Farmers Loan & Trust Co. 22 William St., New York, N. Y.	7,608

414 - Auxiliary Apparatus at Gas Plants - Engines

Line No.	Designation of plant (a)	No. of units (b)	Maker or (c)	Builder	Horsepower each (d)	Total Horsepower (e)
1	Steam Engines					
2	Williamsburgh Works (Con'd)	4	B. F. Sturtevant Co.		185	740
3	"	3	Terry Turbine Engine Co.		185	555
4	"	1	C. W. Hunt		56	56
5	"	3	Alberger Pump & Condenser Co.		71	213
6	"	3	"	"	43	129
7	"	1	Donegan and Swift		15	15
8	"	1	General Electric Company		20	20
9	"	1	Mead-Morrison Mfg. Co.		56	56
10	"	3	General Electric Co.		45	135
11	"	2	Buckeye Engine Company		250	500
12	Metropolitan Works	1	Harrisburgh Foundry & Mach. Wks.		120	120
13	"	7	Terry Turbine Engine Co.		412	2,884
14	"	2	Buckeye Engine Company		120	240
15	"	1	B. F. Sturtevant Company		45	45
16	"	1	Terry Turbine Engine Co.		165	165
17	"	1	B. F. Sturtevant Company		200	200
18	"	1	Mead-Morrison Mfg. Co.		75	75
19	"	1	Alberger Pump & Condenser Co.		70	70
20	"	1	"	"	75	75
21	"	3	"	"	50	150
22	"	2	"	"	49	98
23	"	1	"	"	80	80
24	"	1	General Electric Company		27.5	27.5
25	Greenpoint Works	3	B. F. Sturtevant Company		50	150
26	"	3	"	"	110	330
27	"	5	"	"	36	180
28	"	3	"	"	28	84
29	"	6	"	"	380	2,280
30	"	2	Troy Engine & Machinery Co. No rating			
31	"	3	Harrisburgh Foundry & Mach. Wks.		184	552
32	"	3	B. F. Sturtevant Company		18	54
33	"	3	"	"	75	225
34	"	3	"	"	163	489
35	"	1	"	"	121	121
36	Twelfth Street Station	3	Buckeye Engine Company		330	990
37	Third Avenue Station	1	"	"	248	248
38	"	1	"	"	282	282
39	Fifth Street Station	2	"	"	*150	300
40	"	1	"	"	360	360
41	"	1	Harrisburgh Machine & Fdry. Co.		306	306
42	Front Street Station	1	Nagle Engine & Boiler Works		50	50
43	Kent Avenue Station	2	General Electric Company		575	1,150
44	Wythe Avenue Station	2	Buckeye Engine Company		360	720
45	"	2	"	"	306	612
46	Scholes Street Station	2	"	"	150	150
47	Belmont Avenue Station	2	Erie City Iron Works		130	130
48	Total	184	N.Y. Safety Steam Power Co.		65	28,106.6
49	Gas Engines					
50	Flatbush Station	2	Buckeye Engine Company		252	504
51	"	2	Field-Brundage Company		10	20
52	Newtown Station	1	Allis Chalmers Mfg. Co.		593	593
53	"	2	Buckeye Engine Company		340	680
54	"	2	National Meter Company		50	100
55	Total	9				1,897

*1928 report corrected

502 - *Station Output - Gas

Line No.	Name of station (a)	Water gas (c)	Coke oven gas (d)	All kinds of gas (e)
1	Citizens Works	6,582,245		6,582,245
2	Fulton Works	-		-
3	Nassau Works	800,169		800,169
4	Williamsburgh Works	2,197,707		2,197,707
5	Metropolitan Works	-		-
6	Greenpoint Works	7,568,846	6,995,292	14,564,138
7	Total	17,148,967	6,995,292	24,144,259

10	Maximum	24 hour	send-out	94,132 M cu. ft.	January 29, 1929
12	Minimum	24 hour	send-out	39,619 M cu. ft.	September 2, 1929

17 *Station make

Line No.

Inquiry
No.

1. Various minor improvements.
2. Various minor improvements.
3. No transmission lines were in process of construction at the end of the year.
4. There were various minor extensions to the distribution lines in process of construction at the end of the year.
5. 2.44 miles of transmission line and 45.10 miles of distribution lines were put into operation during the year.
6. The following properties were retired from service during the year:

Equity Works	Date of retirement entry,	July 31, 1929
Keap Street Holder Station	" "	Sept. 30, 1929
Rutledge Street Holder Station	" "	Dec. 31, 1929
Union Holder Station	" "	Dec. 31, 1929

(For principal items included in these properties see insert.)
7. 18 shares of common stock were issued in exchange for \$900.00 of Ten Year 7% Convertible Debenture Bonds dated November 1, 1919; P.S.C. Case No. 2365. 90 shares of common stock were issued in exchange for \$4,500.00 of Ten Year 7% Convertible Debenture Bonds dated May 1, 1922; P.S.C. Case No. 309. 225,464 shares of common stock were issued in exchange for \$11,273,200.00 of Ten Year 5 1/2% Convertible Debenture Bonds dated January 1, 1926; P.S.C. Case No. 2177.
8. \$900.00 of Ten Year 7% Convertible Debenture Bonds, dated November 1, 1919 were converted into common stock; \$5,500.00 were redeemed.
9. \$4,500.00 of Ten Year 7% Convertible Debenture Bonds, dated May 1, 1922 were converted into common stock.
10. \$11,273,200.00 of Ten Year 5 1/2% Convertible Debenture Bonds, dated January 1, 1926 were converted into common stock.
11. An installment of \$5,000.00 on the real estate mortgage on property located at Ralph and Dittmas Avenues was received during the year.
12. \$50,250,000.00 was borrowed on short term notes from various banks and trust companies during the year.
13. \$50,250,000.00 borrowed on short term notes was paid during the year.
14. No change.
15. No change.
16. None.
17. See insert.
18. No.
19. No.
20. None.

512. Important Units of Plant and Equipment Installed During the Year

Line No.	Location and description (a)	Book value (b)
1	<u>Greenpoint Works</u>	
2	Air Meters on 6 Water Gas Sets	\$ 9,677.35
3	3 Electric Winches at Dock	8,077.45
4	Dust Quenchers for 6 Water Gas Sets	6,425.32
5	Changes to Carburetter Blast	7,523.75
6	<u>Scholes Street Station</u>	
7	Water System	6,178.06
8	<u>Wythe Ave. Station</u>	
9	Erect a combination Accomodation and Storeroom	6,909.91
10	Build Retaining Wall and Cyclone Fence	9,295.52
11	<u>Citizens Branch</u>	
12	Extension to Office Building	311,595.84
13	<u>Newtown Branch</u>	
14	2 Tube Signs	4,714.65
15	<u>Jamaica Branch</u>	
16	Extension to Office Building	250,006.97
17	<u>General Office Building</u>	
18	Installing Electric Lights	6,095.33

512. Important Units of Plant and Equipment Permanently Withdrawn from Service
During the Year

Line No.	Location and description (a)	Book value (b)
1	<u>Maspeth Ave. Station</u>	
2	1 Olney and Warren 125 H.P. Boiler	\$ 3,457.21
3	<u>130 Atlantic Ave.</u>	
4	Storage Building	47,552.43

ELECTRIC CORPORATIONS AND GAS CORPORATIONS
CLASSES A, B, AND C

YEAR ENDED
DECEMBER 31, 1930

Report of _____

The Brooklyn Union Gas Company

(Here show in full the exact corporate, firm or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at _____

176 Remsen Street, Brooklyn, N. Y.

(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE—STATE DIVISION
Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1930

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1931

Report for the Year Ended December 31, 1930

103. CONTROL.

1. Show particulars called for concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year show such members as of the end of the year.

2. Append hereto as a permanent part of the report a certified copy of the trustee agreement or other instrument under which any voting capital stock of the respondent is held, if such documents are on file with the reporting corporation; if they are not on file state that fact.

Name of member		Address of member (City, street, number)		Number of voting shares held (date) <i>Dec. 31, 1930.</i>					Line No.
(a)	(b)	Common (c)	Preferred		Other securities with voting power				
			First (d)	Second (e)	(f)	(g)			
Berley Company	650 Koppers Bldg., Pittsburgh, Pa.	50,000						1	
Falmouth Company	612 Koppers Bldg., Pittsburgh, Pa.	50,000						2	
Gregory Company	650 Koppers Bldg. Pittsburgh, Pa.	50,000						3	
Koppers Gas & Coke Co.	Union Trust Bldg., Pittsburgh, Pa.	20,000						4	
Otis & Company	15 Nassau Street, New York, N.Y.	10,903						5	
E. A. Grant & Co.	c/o Central Hanover Bank & Trust Co. 70 Broadway, N.Y.	8,640						6	
Esmond Company	650 Koppers Bldg., Pittsburgh, Pa.	7,940						7	
E. R. Schuler & Co.	c/o Farmers Loan & Trust Co. 22 William St. N.Y.	7,608						8	
								9	
								10	
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	

Inquiry 2. No record or knowledge of any trustee or other agreement.

413. Gas Plants

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24 hour capacity M. cu. ft. (c)	Number of ovens (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth & Varick Aves.,	20,000	2 batteries, each containing 45 ovens; total 90 ovens
3		Brooklyn, N. Y.		
4				
5				
6				
7				
8				
9				Number of
10	(f)	(g)	(h)	Water gas sets (i)
11				
12	Citizens Works	433 Hoyt St. Brooklyn, N.Y.	27,200	10
13	Nassau Works	556 Kent Avenue, Brooklyn, N.Y.	24,500	9
14	Williamsburgh Works	Foot of North 12th St.,		
15		Brooklyn, N.Y.	30,000	12
16	Metropolitan Works	53 Twelfth Street, Brooklyn, N.Y.	27,200	9
17	Greenpoint Works	Maspeth & Varick Aves.,		
18		Brooklyn, N.Y.	20,000	6
19			<u>128,900</u>	<u>46</u>
20				
21				

Inquiry 2: Nassau Works was closed during 1930.

Williamsburgh Works closed down May 18, 1930 and resumed operation Oct. 9, 1930.

Metropolitan Works was closed during 1930.

Both of the plants which were closed down at the end of the year were maintained in operating condition.

414. Auxiliary Apparatus at Gas Plants - Relief Holders

Line No.	Designation of Plant (a)	No. of Units (b)	Maker or Builder (c)	Capacity each (d)	Total Capacity (e)
1	Citizens Works	1	Bartlett - Hayward Company	246,000	246,000
2	" "	1	" " "	800,000	800,000
3	Nassau "	1	" " "	107,000	107,000
4	" "	1	" " "	255,000	255,000
5	Williamsburgh Works	1	Jesse Starr Company	315,000	315,000
6	Metropolitan "	1	Bartlett - Hayward Company	105,000	105,000
7	" "	1	Hoey, Kennedy & Company	320,000	320,000
8	Greenpoint "	1	Bartlett- Hayward Company	1,000,000	1,000,000
9					
10	Total	<u>8</u>			<u>3,148,000</u>

11					
12					
13					
14	Producer gas holders:				
15	Greenpoint Works	1	Western Gas Construction Co.	40,000	40,000
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					

414 Auxiliary Apparatus at Gas Plants - Tanks

Line No.	Designation of plant (a)		No. of Units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
1	Tar tanks:					
2						
3	Citizens	Works	1	Not known	21,000	21,000
4	"	"	1	"	60,000	60,000
5	"	"	5	"	12,000	60,000
6	"	"	1	"	50,000	50,000
7	"	"	2	"	27,000	54,000
8	"	"	2	"	2,500	5,000
9	"	"	2	"	500	1,000
10	"	"	1	"	5,400	5,400
11	"	"	3	"	37,500	112,500
12	"	"	1	"	4,500	4,500
13	"	"	5	"	20,000	100,000
14	"	"	4	"	10,000	40,000
15	Nassau	"	2	"	100,000	200,000
16	"	"	1	"	187,810	187,810
17	"	"	1	"	22,810	22,810
18	"	"	1	"	11,520	11,520
19	"	"	1	"	7,077	7,077
20	"	"	1	"	8,812	8,812
21	"	"	2	"	39,657	79,314
22	"	"	1	"	11,423	11,423
23	"	"	1	"	7,935	7,935
24	"	"	1	"	23,950	23,950
25	"	"	1	"	39,657	39,657
26	"	"	1	Bartlett-Hayward Company	30,080	30,080
27	"	"	1	" " "	22,464	22,464
28	Williamsburgh	"	1	Logan Iron Works	225,000	225,000
29	"	"	2	C. L. Rowland	6,400	12,800
30	"	"	1	Bartlett-Hayward Company	43,000	43,000
31	"	"	1	" " "	30,900	30,900
32	"	"	2	Not known	5,700	11,400
33	"	"	1	"	22,700	22,700
34	"	"	1	"	11,400	11,400
35	"	"	1	Bartlett-Hayward Company	1,550	1,550
36	"	"	1	C. Cunningham & Sons	21,800	21,800
37	"	"	1	C. L. Rowland	158,000	158,000
38	Metropolitan	"	1	C. Cunningham & Sons	24,179	24,179
39	"	"	1	Not known	3,384	3,384
40	"	"	1	Logan Iron Works	129,548	129,548
41	"	"	1	Bartlett-Hayward Company	105,469	105,469
42	"	"	1	Not known	900	900
43	"	"	3	Bartlett-Hayward Company	44,064	132,192
44	"	"	5	" " "	22,500	112,500
45	"	"	1	" " "	31,680	31,680
46	Greenpoint	"	6	" " "	46,998	281,988
47	"	"	1	" " "	403,892	403,892
48	"	"	2	" " "	269,000	538,000
49	"	"	1	" " "	81,900	81,900
50	"	"	1	The Brooklyn Union Gas Co.	930	930
51	"	"	1	The Koppers Construction Co.	550,000	550,000

81

4,101,364

414 Auxiliary Apparatus at Gas Plants - Tanks (continued)

Line No.	Designation of plant (a)	No. of Units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
1	Oil tanks:				
2					
3	Citizens Works	1	Not known	252,000	252,000
4	" "	1	"	441,000	441,000
5	" "	1	"	685,000	685,000
6	Nassau "	1	Bartlett-Hayward Company	201,685	201,685
7	" "	1	Not known	201,685	201,685
8	" "	1	"	158,630	158,630
9	" "	1	"	158,630	158,630
10	Williamsburgh "	1	"	341,000	341,000
11	" "	1	C. Cunningham	282,000	282,000
12	" "	1	Bartlett-Hayward Company	675,000	675,000
13	" "	5	" " "	22,500	112,500
14	Metropolitan "	1	Logan Iron Works	230,307	230,307
15	" "	1	Not known	151,139	151,139
16	" "	1	Bartlett-Hayward Company	513,962	513,962
17	Greenpoint "	2	" " "	1,058,564	2,117,128
18					
19		<u>20</u>			<u>6,521,666</u>
20					
21	Foamite storage tanks:				
22					
23	Greenpoint Works	2	Bartlett-Hayward Company	45,800	<u>91,600</u>
24					
25	Acid storage tanks:				
26					
27	Greenpoint Works	5	The Koppers Construction Co.	20,000	<u>100,000</u>
28					
29	Ammonia liquor				
30	storage tanks:				
31					
32	Greenpoint Works	1	The Koppers Construction Co.	260,000	<u>260,000</u>
33					
34					
35					
36					
37					
38					

414-Auxiliary Apparatus at Gas Plants - Boilers

Line No.	Designation of Plant (e)	No. of Units (f)	Maker or Builder (g)	Capacity each (h)	Total Capacity (i)
1	Citizens Works	3	Babcock and Wilcox Company	335	1,005
2	" "	6	" " " "	600	3,600
3	Nassau "	3	Aultman and Taylor	250	750
4	" "	2	Sterling Consol. Boiler Co.	414	828
5	" "	1	Heine Boiler Company	358	358
6	" "	1	" " "	560	560
7	" "	2	Wickes Boiler Company	503	1,006
8	" "	1	" " "	482	482
9	Wmsburgh. "	5	Babcock and Wilcox Company	414	2,070
10	" "	4	Aultman and Taylor	250	1,000
11	" "	1	Heine Boiler Company	504	504
12	" "	1	" " "	564	564
13	" "	2	Wickes Boiler Company	503	1,006
14	Metropolitan Works	4	Babcock and Wilcox Company	335	1,340
15	" "	4	" " " "	440	1,760
16	" "	2	Heine Boiler Company	482	964
17	Greenpoint "	5	Babcock and Wilcox Company	600	3,000
18	" "	6	Wickes Boiler Company	503	3,018
19	" "	7	" " "	175	1,225
20	Front Street Station	2	Atlantic Steam Engine Works	70	140
21	Plymouth " "	1	Logan Iron Works	50	50
22	Scholes " "	2	Hazelton Boiler Company	50	100
23	" " "	1	" " "	250	250
24	" " "	*1	Bryant Heater & Mfg. Company	5 $\frac{1}{2}$	5 $\frac{1}{2}$
25	" " "	*2	American Radiator Company	20	40
26	Wythe Avenue "	2	Babcock and Wilcox Company	207	414
27	" " "	2	" " " "	297	594
28	Belmont " "	2	Hazelton Boiler Company	100	200
29	Flatbush " "	2	Babcock and Wilcox Company	250	500
30	Newtown " "	2	Aultman and Taylor	250	500
31	Jamaica " "	2	Hazelton Boiler Company	50	100
32					
33	Total	<u>81</u>			<u>27,933$\frac{1}{2}$</u>
34					
35					

414 - Auxiliary Apparatus at Gas Plants - Steam Engines (continued)

Line No.	Designation of Plant (e)	No. of Units (f)	Maker or Builder (g)	Capacity each (h)	Total Capacity (i)
1	Greenpoint Works	3	B. F. Sturtevant Company	50	150
2	" "	3	" " "	110	330
3	" "	5	" " "	36	180
4	" "	3	" " "	28	84
5	" "	6	" " "	380	2,280
6	" "	2	Troy Engine & Machinery Co.	No rating	--
7	" "	3	Harrisburgh Foundry & Mach.Wks.	184	552
8	" "	3	B. F. Sturtevant Company	18	54
9	" "	3	" " "	75	225
10	" "	1	" " "	163	163
11	" "	1	" " "	121	121
12	Fifth Street Station	2	Buckeye Engine Company	150	300
13	" " "	1	" " "	360	360
14	" " "	1	Harrisburg Machine & Foundry Co.	306	306
15	Twelfth " "	3	Buckeye Engine Company	330	990
16	Front " "	1	Nagle Engine & Boiler Works	50	50
17	Scholes " "	1	Erie City Iron Works	150	150
18	Kent Avenue " "	2	General Electric Company	575	1,150
19	Wythe " "	2	Buckeye Engine Company	360	720
20	" " "	2	" " "	306	612
21	Belmont " "	2	N. Y. Safety Steam Power Co.	65	130
22					
23		<u>161</u>			<u>25,500</u>
24					
25					
26					
27					
28					
29					
30					

100. PRODUCTION EXPENSES AND GAS MANUFACTURED, BY STATIONS. (Classes A and B (Annual Revenue in Excess of \$100,000).

1. Show hereunder the various items of expense incurred in the manufacture of gas at each of the stations operated by the respondent during any portion of the year, and in the right hand column the total cost at all stations.

2. This total production cost on line 99 with reference to the appropriate schedule of operating expenses for details thereof.

3. All credit entries in this schedule should be made in red ink.

Designation of station		Citizens Works			Williamsburgh Wks			Greenpoint Wks			Stand-by Costs			Holder Stations			Total Production Expense					
	(a)	(b)	(c)	(d)	(b)	(c)	(d)	(b)	(c)	(d)	(b)	(c)	(d)	(b)	(c)	(d)	(b)	(c)	(d)			
1	701.1 Works superintendence	58	809	89	88	915	34	56	477	16	*	92	555	54			230	237	93			
2	701.2 Boiler labor	48	316	08	18	648	54	36	564	53			367	88			97	895	43			
3	701.3 Retort labor	=	=	=	=	=	=	=	=	=		=	=	=			=	=	=			
4	701.4 Generator labor	58	638	34	30	358	16	74	819	86			=	=			153	209	76			
5	701.5 Purification labor	5	511	39		345	17	8	684	58			854	14			16	335	26			
6	701.6 Miscellaneous works labor	51	027	84	15	968	85	56	833	69		31	852	90			155	083	28			
7	701 Works superintendence and labor	210	697	54	94	236	06	232	719	22	*	125	129	66			662	732	59			
8	702.1 boiler fuel	99	617	85	43	918	82	57	693	53			651	41			201	291	01			
9	702.2 Water	14	836	24	5	130	76	13	309	53			843	89			33	520	42			
10	702.3 Fuel under retorts	=	=	=	=	=	=	=	=	=		=	=	=			=	=	=			
11	702.4 Coal carbonized	=	=	=	=	=	=	=	=	=		=	=	=			=	=	=			
12	705 Generator fuel	879	325	82	888	019	88	839	985	14			835	42			2	007	567	80		
13	706 Water gas oil	1	081	310	310	584	55	1	113	084	59			=			2	444	979	42		
14	707.1 Coal gas enricher	=	=	=	=	=	=	=	=	=		=	=	=			=	=	=			
15	707.2 Purification supplies	80	278	97		=	=	18	454	82		2	225	82			34	959	51			
16	707.3 Miscellaneous works expense	24	978	55	8	192	17	27	591	76	*	17	808	36			78	570	84			
17	707.4 Gas storage	2	242	69	10	152	27		=	=			=	=	209	145	74	221	540	53		
18	Total, Accounts 702.1 to 707.4, incl.	2	062	591	565	997	79	2	063	519	37	*	21	164	90	209	145	74	5	022	419	19
19	708 Maintenance of works and station structures	28	809	33	9	709	03	10	905	05		18	944	45	20	337	98	89	705	84		
20	709.1 Maintenance of furnaces and boilers	9	636	98	3	670	21	6	864	18		3	154	65	2	027	91	84	753	93		
21	709.2 Maintenance of boiler apparatus	3	104	74		320	98	2	095	91			459	46		807	43	6	588	52		
22	709.3 Maintenance of steam accessories	5	214	68	2	439	03	6	004	66			900	08	2	165	64	16	784	09		
23	709.4 Maintenance of steam engines	4	983	94		889	16	3	382	11			877	52	3	859	00	13	191	72		
24	709.5 Maintenance of internal combustion engines	=	=	=	=	=	=	=	=	=		=	=	=	7	132	56	7	132	56		
25	709.6 Maintenance of miscellaneous power equipment	1	861	23		137	33		151	82			130	99		=		2	281	37		
26	709.7 Maintenance of power equipment	24	801	57	7	456	70	17	898	68		4	922	70	15	592	54	70	672	16		
27	709.8 Maintenance of benches and retorts	=	=	=	=	=	=	=	=	=		=	=	=		=		=	=	=		
28	709.9 Maintenance of water gas sets	41	674	15	9	328	64	44	172	10		5	378	46		=	100	611	35			
29	709.10 Maintenance of purification apparatus	6	453	73		507	46	4	378	84		1	344	01		=	12	693	44			
30	709.11 Maintenance of holders		158	95	1	073	68		=	=			207	86	51	371	55	58	811	44		
31	709.12 Maintenance of accessory works equipment	19	426	79	4	698	23	7	897	74		2	090	69	14	084	35	49	187	80		
32	709.13 Maintenance of laboratory equipment		634	35		331	92		613	87			104	86		=		1	685	00		
33	709.14 Maintenance of implements and accessories	2	785	39		756	96		676	20			174	98		=		4	393	53		
34	709.15 Maintenance of gas apparatus and tools	71	143	36	16	750	89	57	738	15		9	294	26	65	455	90	220	332	56		
35	711 Power from other sources																					
36	712 Steam generated - apportionment account																					
37	713 Gas produced - by	125	637	93	32	383	06	128	531	92		1	545	42		=	343	946	29			
38	714 Gas produced - by	=	=	=	=	=	=	=	=	=		=	=	=		=	6	983	12			
39	715 Gas produced - by	2	271	205	761	322	41	2	200	248	55	*	177	807	75	310	532	16	5	715	134	06
40	716 Total cost of gas produced																					
41	717 Coal gas produced M cu. ft.																	16	896	353		
42	718 Water gas produced M cu. ft.	5	836	545	2	035	587	7	482	181			=									
43	719 Total gas produced M cu. ft.																					
44	720 Maximum 24-hour make M cu. ft. (with date)	12/16	88	782	4/25	12	514	10/1	51	663							2/17	69	142			
45	721 Average daily make M cu. ft.		12	731		3277			80	337								44	645			

507. Production Expenses and Gas Manufacture by Stations
Greengolf North - Coke Oven Gas Plant

Item (a)	\$ (b)	\$ (c)	Total production Expense - Coke Oven Gas (d)
1 Gross cost:			
2 Production labor			522,313.53
3 Production materials:			
4 Materials shown in Schedule 505		3,511,575.30	
5 Other production materials		<u>490,251.24</u>	4,101,826.54
6 Indifference costs			<u>152,241.47</u>
7			
8 Total gross cost			4,737,057.54
9			
10 Residuals provided:			
11 Coke		3,515,708.65	
12 Oven gas tax		<u>213,434.12</u>	
13 Sulfur		<u>255,058.22</u>	
14			
15 Total residuals provided		3,985,210.99	
16			
17 Residuals expense:			
18 Coke	130,581.89		
19 Other residuals	<u>* 137,990.36</u>		
20			
21 Total residuals expense		<u>278,572.25</u>	
22			
23 Net residuals provided			<u>3,606,538.74</u>
24			
25 Net cost of coke oven gas made			<u>1,130,458.80</u>
26			
27			
28			
29 Coke oven gas provided			7,274,255
30 Residual, 24 hour make - 11 cr. ft., (with date)		12/31	24,752
31 Average daily make - 11 cr. ft.			<u>20,204</u>
32			
33			
34 Total gas produced - water gas and coke oven gas			23,553,749
35 Residual total 24 hour make - 11 cr. ft., (with date)		11/29	<u>90,556</u>
36			54,349

Residuals first time made

Page 506

Devilgum Union Gas 1930

Line 38, col. (c) - This item can not be allocated to any of the preceding columns.

Line 40, - See insert page 506, line 29.

Line 42 - See insert page 506, line 34.

Line 43 - Water gas.

Extract from company's letter dated Dec. 5, 1931

* Residuals shown in Schedule 505 51%
Other residuals expense

77,828.23
110,152.13
1,97,991.36

Line No.	Designation of station	Item	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)	(x)	(y)	(z)
1	Gas coal: Bituminous carbonized																											
2	Yield, gas per lb. coal (cu. ft.)																											
3	Average number ^{even} pieces in action																											
4	Average charge per ^{even} piece (lbs.)																											
5	Average period of carbonization (hours)																											
6	Average make per ^{even} piece per day (cu. ft.)																											
7	Coke: Short tons produced																											
8	Coke: Ratio per short ton of coal carb.																											
9	Tar: Gallons produced																											
10	Tar: Gallons per short ton of coal carb.																											
11	Fuel under retorts: Coke (short tons)																											
12	Coal (short tons)																											
13	Lbs. fuel per ton coal carbonized																											
14	Boiler fuel: Average number boilers																											
15	Solid fuel (short tons)																											
16	Tar used (gals.)																											
17	Lbs. fuel (solid or liquid) per M made																											
18	Generators: Average number in use																											
19	Total square feet of grate surface **																											
20	Make (hourly) per sq. ft. of grate surface (cu. ft.)																											
21	Generator fuel per M made																											
22	Gas oil: Gallons used																											
23	Tar yield in % of gals.																											
24	Gallons per M made																											
25	Average cost per gallon, cents and hundredths																											
26	Gas purified: Bu. oxide																											
27	Cu. ft. ^{even} gas per bu.																											
28	Cu. ft. water gas per bu.																											
29	Cu. ft. mixed gas per bu.																											
30	Heating value of gas: B. t. u. maximum day																											
31	Minimum day																											
32	Average for year																											
*Water gas tar																												
Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.																												
33	Item	(a)	Coke (tons)	(b)	Oven ^{even} gas tar (gals.)	(c)	Water gas tar (gals.)	(d)	Ammoniacal liquor (gals.)	(e)	Carbon (lbs.)	(f)	Drip oil (gals.)	(g)	Sludge of ammonia	(h)	Other residuals	(i)		(j)								
34	On hand at beginning of year		30	208	95	337	719	1	552	730																		
35	Made during year		456	326	34	5	398	138	9	419	033																	
36	Used during year		347	925	94				3	328	953																	
37	Sold during year		91	073	19	5	540	857	6	246	205																	
38	On hand at end of year		49	849	66		195	000	1	396	605																	
39	Credits on account of residuals produced *		\$ 516	708	65	\$ 213	434	13	\$ 318	014	28																	
40	Residuals expense		190	581	89	*																						
41	Receipts from sales		682	563	57	221	837	41	223	054	36																	
42	Average selling price		7.4947			.040	037		.035	710																		
*Rest duals expense on oven gas tar and sulphate can not be separated.																												
43																												
44																												
45																												
46																												
47																												
48																												

*Through Account No. 713. ** Does not include inventory adjustment, 2,103.50 tons and 210 tons purchased.

517: 12 Important Units of Plant and Equipment Installed During the Year.

Line No.	Location and description (a)	Book value \$ (b)
1	Citizens Works:	252,994.87
2	1 Bartlett Hayward Co. relief holder, capacity 800,000 cu. ft.	
3	1 335 H.P. General Electric Co. turbine and 1 exhaust, capacity	9,350.07
4	1,250,000 cu. ft.	3,291.09
5	1 10 H.P. Greenfield Engine Co. steam engine.	79,024.80
6	Cottrell precipitation equipment and rectifier building and equipment	2,165.20
7	Pipe shop	625.81
8	3 Acme blowers, capacity .66 cu. ft. each	18,458.23
9	1 Connersville rotary positive meter, capacity 937,500. cu. ft.	45,733.93
10	54" outlet connection	33,546.94
11	48" main from purifier house to meter house	9,572.49
12	Extension of generator house collecting main	
13	Metropolitan Works:	
14	1 7" x 6" Ingersoll-Rand Co. air compressor	2,619.97
15	Greenpoint Works:	
16	Fence	9,362.35
17	1 tractor crane and clam shell bucket	12,791.44
18	1 Niles lathe, with motors and necessary attachments	10,050.80
19	Fifth Street Station:	6,249.59
20	Motor controls on outlet valves of compressors	
21	Scholes Street Station:	820.67
22	1 20 H.P. American Radiator Co. steam boiler	
23	Wythe Avenue Station:	5,890.29
24	Motor controls on outlet valves of compressors	
25	Maspeth Avenue Station:	12,694.81
26	Improvements to inlet	11,399.91
27	Tar conditioner	7,790.14
28	Elevator control equipment, etc.	
29	Newtown Station:	4,666.15
30	Motor controls on outlet valves of compressors	
31	Gas Service Station:	14,214.07
32	Gas-fired heating system	12,185.64
33	Grading and paving warehouse square	26,687.75
34	Structural alterations for automobile body and paint shop	
35	Nassau Branch:	116,766.60
36	Alterations to building	
37	Williamsburgh Branch:	12,199.52
38	Alterations to building	
39	Flatbush Branch:	188,532.67
40	New building	

ELECTRIC CORPORATIONS AND GAS CORPORATIONS
CLASSES A, B, AND C

ORIGINAL

YEAR ENDED 1931
DECEMBER 31,

Report of

The Brooklyn Union Gas Company

(Here show in full the exact corporate, firm, or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at

176 Remsen Street, Brooklyn, N. Y.

(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE—STATE DIVISION

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1931

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1932

105. CONTROL.

1. Show particulars called for concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year show such members as of the end of the year.

2. Append hereto as a permanent part of the report a certified copy of the trustee agreement or other instrument under which any voting capital stock of the respondent is held, if such documents are on file with the reporting corporation; if they are not on file state that fact.

Name of member (a)	Address of member (b) (City, street, number)	Number of voting shares held (date) <u>Dec. 31, 1931.</u>				Line No.
		Common (c)	Preferred First (d)	Second (e)	Other securities with voting power (f)	
Falmouth Company	Koppers Bldg., Pittsburgh, Pa.	57 940				1
Bexley Company	do	50 000				2
Gregory Company	do	50 000				3
Koppers Gas & Coke Co.	Union Trust Bldg., Pittsburgh, Pa.	20 000				4
The Home Insurance Co.	59 Maiden Lane, New York, N. Y.	9 000				5
E. A. Grant & Co.	c/o Central Hanover Bank & Trust Co., 70 Broadway, New York, N. Y.					6
Sigler and Co.	do	8 640				7
E. R. Schulz & Co.	c/o Farmers Loan & Trust Co., 22 William Street, New York, N. Y.	8 416				8
		7 608				9
						10
						11
						12
						13
						14
						15
						16
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						33

Inquiry 2. No record or knowledge of any trustee or other agreement.

413. Gas Plants

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24 hour Capacity M. cu. ft. (c)	Number of ovens (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N. Y.	20,000	2 batteries, each containing 45 ovens; total 90 ovens.
3				
4				
5				
6				
7				
8				
9	(f)	(g)	(h)	Number of water gas sets (i)
10				
11	Citizens Works	433 Hoyt Street, Brooklyn, N. Y.	27,200	10
12	Williamsburgh Works	Foot of North 12th Street, Brooklyn, N. Y.	30,000	12
13				
14	Metropolitan Works	53 Twelfth Street, Brooklyn, N. Y.	27,200	9
15	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N. Y.	20,000	6
16				
17				
18				
19			<u>104,400</u>	<u>37</u>
20				
21				

Inquiry 2: Nassau Works was closed during 1931, and was retired from service in December, 1931

Williamsburgh Works was closed down April 30, 1931 and resumed operation November 9, 1931

Metropolitan Works was closed during 1931 but was maintained in operating condition.

414. Auxiliary Apparatus at Gas Plants - Relief Holders

Line No.	Designation of plant (a)	Number of units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
1	Citizens Works	1	Bartlett-Hayward Company	246,000	246,000
2	" "	1	" " "	800,000	800,000
3	Williamsburgh Works	1	Jesse Starr Company	315,000	315,000
4	Metropolitan Works	1	Bartlett Hayward Company	105,000	105,000
5	" "	1	Hoey, Kennedy and Company	320,000	320,000
6	Greenpoint Works	1	Bartlett-Hayward Company	1,000,000	1,000,000
7					
8		<u>6</u>			<u>2,786,000</u>
9					
10					
11					
12					
13					
14	Producer gas holders:				
15	Greenpoint Works	1	Western Gas Construction Co.	40,000	40,000
16					
17					
18					
19					
20	<i>Withdrawn from service at the Nassau Works since December 31, 1930:</i>				
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

1 relief holder of 107,000 cu. ft. capacity
1 " " " 365,000 " " "

414. Auxiliary Apparatus at Gas Plants - Tanks

Designation of plant (a)	Number of units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
Tar tanks:				
1 Citizens	1	Not known	21,000	21,000
2 "	1	"	60,000	60,000
3 "	5	"	12,000	60,000
4 "	1	"	50,000	50,000
5 "	2	"	27,000	54,000
6 "	2	"	2,500	5,000
7 "	2	"	5,400	1,000
8 "	2	"	37,500	5,400
9 "	1	"	4,500	112,500
10 "	3	"	20,000	4,500
11 "	1	"	10,000	100,000
12 "	5	"	225,000	40,000
13 "	4	"	6,400	225,000
14 Williamsburgh	1	Logan Iron Works	43,000	12,800
15 "	2	C. L. Rowland	30,900	43,000
16 "	1	Bartlett-Hayward Company	5,700	30,900
17 "	1	"	22,700	11,400
18 "	2	Not known	11,400	22,700
19 "	1	"	1,550	11,400
20 "	1	Bartlett-Hayward Company	21,800	1,550
21 "	1	C. Cunningham and Sons	158,000	21,800
22 "	1	C. L. Rowland	24,179	158,000
23 "	1	C. Cunningham and Sons	3,384	24,179
24 Metropolitan	1	Not known	129,548	3,384
25 "	1	Logan Iron Works	105,469	129,548
26 "	1	Bartlett-Hayward Company	900	105,469
27 "	1	Not known	44,064	900
28 "	1	Bartlett-Hayward Company	22,500	132,192
29 "	5	"	31,680	112,500
30 "	5	"	46,998	31,680
31 "	1	"	403,892	281,988
32 Greenpoint	6	"	269,000	403,892
33 "	1	"	81,900	538,000
34 "	2	"	930	81,900
35 "	1	"	550,000	930
36 "	1	The Brooklyn Union Gas Co.		550,000
37 "	1	The Koppers Construction Co.		
38 "	1			
39 "				
40 "				
41 "				
42 "				
43 "				
44 "				
45 "				
46 "				
47 "				
48 "				
49 "				
50 "				
51 "				
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61 "				
62 "				
63 "				
64 "				
65 "				
66 "				

3,448,512

414. Auxiliary Apparatus at Gas Plants - Tanks (continued)

Line No.	Designation of plant (a)	Number of units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
1	Oil tanks:				
2					
3	Citizens Works	1	Not known	252,000	252,000
4	"	1	"	441,000	441,000
5	"	1	"	685,000	685,000
6	Williamsburgh	1	"	341,000	341,000
7	"	1	C. Cunningham	282,000	282,000
8	"	1	Bartlett-Hayward Company	675,000	675,000
9	"	5	"	22,500	112,500
10	Metropolitan	1	Logan Iron Works	230,307	230,307
11	"	1	Not known	151,139	151,139
12	"	1	Bartlett-Hayward Company	513,962	513,962
13	Greenpoint	2	"	1,058,564	2,117,128
14					
15					
16		<u>16</u>			<u>5,801,036</u>
17					
18	Foamite storage tanks:				
19					
20					
21	Greenpoint Works	2	Bartlett-Hayward Company	45,800	91,600
22					
23	Acid storage tanks:				
24					
25					
26	Greenpoint Works	5	The Koppers Construction Co.	20,000	100,000
27					
28	Ammonia liquor storage tanks:				
29					
30					
31	Greenpoint Works	1	The Koppers Construction Co.	260,000	260,000
32					
33					
34					
35					
36					
37					

414. Auxiliary Apparatus at Gas Plants - Boilers

Line No.	Designation of plant (a)	Number of units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
1	Citizens Works	3	Babcock and Wilcox Company	335	1,005
2	"	6	"	600	3,600
3	Williamsburgh	5	"	414	2,070
4	"	4	Aultman and Taylor	250	1,000
5	"	1	Heine Boiler Company	504	504
6	"	1	"	564	564
7	"	2	Wickes Boiler Company	503	1,006
8	Metropolitan	4	Babcock and Wilcox Company	335	1,340
9	"	4	"	440	1,760
10	"	2	Heine Boiler Company	482	964
11	Greenpoint	5	Babcock and Wilcox Company	600	3,000
12	"	6	Wickes Boiler Company	503	3,018
13	"	7	"	175	1,225
14	Front Street Station	2	Atlantic Steam Engine Works	70	140
15	Scholes	1	Hazelton Boiler Company	250	250
16	"	* 1	Bryant Heater & Mfg. Company	5 $\frac{1}{2}$	5 $\frac{1}{2}$
17	"	* 2	American Radiator Company	20	40
18	Wythe Avenue	2	Babcock and Wilcox Company	207	414
19	"	2	"	297	594
20	Belmont	3	Hazelton Boiler Company	100	300
21	Flatbush	2	Babcock and Wilcox Company	250	500
22	Newtown	2	Aultman and Taylor	250	500
23					
24					
25					
26					
27					
28					
29					
30					
					<u>23,699$\frac{1}{2}$</u>

414. Auxiliary Apparatus at Gas Plants - Steam Engines

Line No.	Designation of plant (a)	Number of units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
1	Citizens Works	1	Terry Turbine Engine Company	185	185
2	"	1	Buckeye Engine Company	125	125
3	"	2	Greenfield Engine Company	15	30
4	"	1	F.G. & A.P. Rowland	12	12
5	"	1	Mead-Morrison Manufacturing Co.	25	25
6	"	1	Greenfield Engine Company	8	8
7	"	4	B. F. Sturtevant Company	200	800
8	"	1	Buckeye Engine Company	318	318
9	"	3	Terry Turbine Engine Company	50	150
10	"	2	" " " "	80	160
11	"	6	Alberger Pump & Condenser Company	40	240
12	"	1	Mead-Morrison Manufacturing Co.	75	75
13	"	1	Godfrey Keeler Company	20	20
14	"	5	Terry Turbine Engine Company	412	2,060
15	"	1	Alberger Pump & Condenser Company	80	80
16	"	1	General Electric Company	27.5	27.5
17	"	3	Alberger Pump & Condenser Company	57.5	172.5
18	"	1	Harrisburgh Foundry & Machine Wks.	120	120
19	"	1	Greenfield Engine Company	10	10
20	"	1	General Electric Company	335	335
21	Williamsburgh	4	Buckeye Engine Company	150	600
22	"	2	B. F. Sturtevant Company	300	600
23	"	4	" " " "	185	740
24	"	3	Terry Turbine Engine Company	185	555
25	"	3	Alberger Pump & Condenser Company	71	213
26	"	3	" " " "	43	129
27	"	1	General Electric Company	20	20
28	"	1	Mead-Morrison Manufacturing Co.	56	56
29	"	3	General Electric Company	45	135
30	Metropolitan	1	Harrisburgh Foundry & Machine Wks.	120	120
31	"	7	Terry Turbine Engine Company	412	2,884
32	"	2	Buckeye Engine Company	120	240
33	"	1	B. F. Sturtevant Company	45	45
34	"	1	Terry Turbine Engine Company	185	185
35	"	1	B. F. Sturtevant Company	200	200
36	"	1	Mead-Morrison Manufacturing Co.	75	75
37	"	1	Alberger Pump & Condenser Company	70	70
38	"	1	" " " "	75	75
39	"	3	" " " "	50	150
40	"	2	" " " "	49	98
41	"	1	" " " "	80	80
42	"	1	General Electric Company	27.5	27.5
43	Greenpoint	3	B. F. Sturtevant Company	50	150
44	"	3	" " " "	110	330
45	"	5	" " " "	36	180
46	"	3	" " " "	28	84
47	"	6	" " " "	380	2,280
48	"	2	Troy Engine & Machinery Company	No rating	-
49	"	3	Harrisburgh Foundry & Machine Wks.	184	552
50	"	3	B. F. Sturtevant Company	18	54
51	"	3	" " " "	75	225
52	"	* 3	General Electric Company	78.5	235.5
53	"	* 3	" " " "	148.5	445.5
54	"	* 3	" " " "	347	1,041
55	"	* 1	Terry Turbine Engine Company	100	100
56	"	* 1	" " " "	80	80

*See note on page 404-f-2

414. Auxiliary Apparatus at Gas Plants - Steam Engines (continued)

	Designation of plant (a)	Number of units (b)	Maker or builder (c)	Capacity each (d)	Total Capacity (e)
1	Greenpoint Works	* 1	Terry Turbine Engine Company	10	10
2	"	* 1	Dake Engine Company	5	5
3	"	* 1	"	3	3
4	"	* 3	"	7	14
5	"	1	B. F. Sturtevant Company	163	163
6	"	1	"	121	121
7	Fifth Street Station	3	Buckeye Engine Company	150	300
8	"	1	"	360	360
9	"	1	Harrisburg Machine & Foundry Co.	306	306
10	Twelfth	3	Buckeye Engine Company	330	990
11	Front	1	Nagle Engine and Boiler Works	50	50
12	Bohler	1	Erie City Iron Works	150	150
13	Wythe Avenue	3	Buckeye Engine Company	360	720
14	"	3	"	306	612
15	Belmont	2	N.Y. Safety Steam Power Co.	65	130
16					
17					
18		<u>149</u>			<u>21,941.5</u>

*These engines were installed at the time of the construction of the plant, but have not previously been reported.

307. PRODUCTION EXPENSES AND GAS MANUFACTURED BY STATIONS. Classes A and B (Annual Expenses in Excess of \$10,000).

1. Show hereunder the various items of expense incurred in the manufacture of gas at each of the stations operated by the respondent during any portion of the year, and extend in the right hand column the total cost at all stations.
 2. Companies which operate one manufacturing plant only may omit details of operating costs overhead and interest.
 3. All credit entries in this schedule should be made in red ink.

Line No.	Designation of station	Citizens Works			Humboldt Works			Greenpoint Wks.			Standby Costs			Holder Stations			Total			
		\$	(c)	n	\$	(c)	n	\$	(c)	n	\$	(c)	n	\$	(c)	n	Wages	Exp.		
1	701.1 Works superintendence	55	497	32	13	633	55	32	256	47	*	32	370	22			212	732	30	
2	701.2 Boiler labor	51	532	81	10	674	24	33	011	21							25	222	22	
3	701.3 Retort labor	-	-	-	-	-	-	-	-	-							-	-	-	
4	701.4 Generator labor	59	949	10	14	322	10	77	525	21							121	234	11	
5	701.5 Purification labor	4	950	24		165	22	10	005	22							15	122	04	
6	701.6 Miscellaneous works labor	43	222	47	2	260	22	57	343	21				27	004	25	143	304	25	
7	701. Works superintendence and labor	220	273	24	55	234	43	240	203	08	*	102	375	21			224	322	30	
8	702.1 Boiler fuel	110	662	51	26	120	27	61	902	59							123	525	27	
9	702.2 Water	16	262	04	2	609	49	11	401	04							30	272	27	
10	703 Fuel under retorts	-	-	-	-	-	-	-	-	-							-	-	-	
11	704 Coal carbonized	-	-	-	-	-	-	-	-	-							-	-	-	
12	705 Generator fuel	722	031	02	122	546	57	756	209	22							1	661	240	27
13	706 Water gas oil	931	083	02	135	125	54	225	211	05							1	252	122	01
14	707.1 Coal gas enricher	-	-	-	-	-	-	-	-	-							-	-	-	
15	707.2 Purification supplies	12	703	81	-	-	-	11	649	25							24	333	06	
16	707.3 Miscellaneous works expense	23	747	26	5	696	06	22	232	12	*	10	604	43			22	227	03	
17	707.4 Gas storage	-	-	-	2	613	22	-	-	-							207	204	41	
18	Total, Accounts 701.1 to 707.4, incl.	1	276	420	36	300	522	51	1	756	471	72	*	10	604	43	4	122	741	22
19	708 Maintenance of works and station structures	32	503	20	4	411	21	12	027	25				12	215	56	22	244	27	
20	709.12 Maintenance of furnaces and boilers	15	256	22	2	426	27	7	270	42				2	227	22	31	232	22	
21	709.13 Maintenance of boiler apparatus	4	426	22		212	72	2	604	54				2	227	22	2	222	22	
22	709.14 Maintenance of steam accessories	11	135	40	1	712	24	6	542	15				2	342	17	22	222	22	
23	709.15 Maintenance of steam engines	5	722	72		410	55	4	173	24				4	212	20	15	222	21	
24	709.16 Maintenance of internal combustion engines	-	-	-	-	-	-	-	-	-				4	431	25	4	431	25	
25	709.17 Maintenance of miscellaneous power equipment	1	322	12		25	65	542	30					51	22		2	222	22	
26	709.1 Maintenance of power equipment	32	635	21	4	222	20	21	200	05				3	222	01	14	222	22	
27	709.21 Maintenance of benches and retorts	-	-	-	-	-	-	-	-	-							-	-	-	
28	709.22 Maintenance of water gas sets	32	457	23	6	112	31	32	665	32				7	222	74	27	222	27	
29	709.23 Maintenance of purification apparatus	4	572	23		517	23	5	420	20				327	21		10	222	27	
30	709.24 Maintenance of holders	-	-	-	1	672	11	-	-	-				1	442	06	54	341	22	
31	709.25 Maintenance of accessory works equipment	20	703	36	2	677	57	7	212	52				1	704	27	17	722	22	
32	709.26 Maintenance of laboratory equipment		227	11		257	16		572	00				152	47		1	212	74	
33	709.27 Maintenance of implements and accessories	3	102	42		617	72		242	20				312	22		4	222	72	
34	709.2 Maintenance of gas apparatus and tools	62	070	72	11	255	17	42	424	31				12	212	03	72	222	22	
35	711 Power from other sources																			
36	712 Steam generated — apportionment account																			
37	713 Residuals produced — Cr.	23	722	21	15	204	72	104	522	21							214	272	42	
38	714 Residuals produced <i>Production charges — Cr.</i>																***	2	222	22
39	Total cost of gas produced	2	142	220	22	352	642	06	1	274	521	27	*	152	140	24	303	202	12	
40	<i>Gas produced, M cu. ft.</i> See insert, page 222, line 22																			
41	Water gas produced, M cu. ft.	6	220	214		222	220	6	224	242							14	222	222	
42	Total gas produced, M cu. ft.	6	220	214		222	220	6	224	242							14	222	222	
43	Maximum 24-hour make, M cu. ft. (with data) <i>See insert, page 222, line 22</i>	5/1	22	353	1/15	14	222	12/31	22	242							1/15	21	722	
44	Average daily make, M cu. ft.		17	202	****	5	352		12	627								22	444	

For footnotes see page 202 a

507. Production Expenses and Gas Manufactured, by Stations
Greenpoint Works - Coke Oven Gas Plant

Line No.	Item (a)	\$ (b)	\$ (c)	Total Production expense coke oven gas \$ (d)
1	Gross cost:			
2	Production labor			429,874.47
3	Production materials:			
4	Material shown in Schedule 512		4,392,981.74	
5	Other production materials		<u>467,649.10</u>	4,860,630.84
6	Maintenance costs			<u>241,976.35</u>
7				
8	Total gross cost			5,532,481.66
9				
10	Residuals produced:			
11	Coke		4,138,100.55	
12	Oven gas tar		<u>276,108.47</u>	
13	Sulphate		<u>229,425.84</u>	
14				
15	Total residuals produced		4,643,634.86	
16				
17	Residuals expense:			
18	Coke	74,965.08		
19	Other residuals	<u>166,485.87</u>		
20				
21	Total residuals expense		<u>241,440.95</u>	
22				
23	Net credit for residuals			4,402,193.91
24				
25	Duplicate production charges - credit			<u>165.06</u>
26				
27	Net cost of coke oven gas made			<u>1,130,122.69</u>
28				
29	Coke oven gas produced - M. cu. ft.			8,978,899
30	Maximum 24 hour make - M. cu. ft. (with date)		November 16	26,068
31	Average daily make - M. cu. ft.			24,599
32				
33				
34	Total gas produced - water gas and coke oven gas - M. cu. ft.			23,010,751
35	Maximum 24 hour make - M. cu. ft. (with date)		January 15	86,196
36	Average daily make			83,043
37				
38				
39	* Materials shown in Schedule 512		85,541.47	
40	Other residuals expense		<u>80,944.40</u>	
41			<u>166,485.87</u>	
42				
43				
44	Footnotes for page 506:			
45				
46	*Includes general production expenses:			
47	Works superintendence		44,444.00	
48	Miscellaneous works expense		<u>3,446.47</u>	
49	Total		<u>47,890.47</u>	
50				
51	** See insert page 506 a for cost of coke oven gas			
52				
53	*** This item can not be allocated to any of the preceding columns			
54				
55	**** Average for 173 days operation			
56				

Summary of Residuals Produced and Residuals Expense

Line No.	(a)	Water gas \$ (b)	Coke oven gas \$ (c)	Total \$ (d)
1	Residuals produced:			
2				
3	Coke			
4			4,138,100.55	4,138,100.55
5	Oven gas tar			
6			276,108.47	276,108.47
7	Water gas tar			
8		194,940.09		194,940.09
9	Drip oil			
10		19,339.39		19,339.39
11	Sulphate of ammonia			
12			229,425.84	229,425.84
13	Total residuals produced	<u>214,279.48</u>	<u>4,643,634.86</u>	<u>4,857,914.34</u>
14				
15	Residuals expense:			
16				
17	Coke			
18			74,955.08	74,955.08
19	Oven gas tar and			
20	sulphate of ammonia			
21			166,485.87	166,485.87
22	Total residuals expense		<u>241,440.95</u>	<u>241,440.95</u>
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				

508. STATION RECORDS - GAS.

Continuing the same columnar arrangement as in schedule 507 show the requested information regarding production of gas in each station.

Line No.	Designation of station	Citizens Works	Williamsbgh. Wks.	Greenpoint Wks. Water gas plant	Greenpoint Wks. Coke Oven plant	Stand-by	Totals
	Item (a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Gas coal: Bituminous carbonized (short tons)				771 185 00		771 185 00
2	Yield, gas per lb. coal (cu. ft.)				5 82		5 82
3	Average number retorts in action				90		90
4	Average charge per retort (lbs.)				27 080		27 080
5	Average period of carbonization (hours)				13 85		13 85
6	Average make per retort per day (cu. ft.)				273 322		273 322
7	Coke: Short tons produced				581 431 00		581 431 00
8	Coke: Ratio per short ton of coal carb. (l. 7 + l. 1)				75 39		75 39
9	Tar: Gallons produced	* 2,693 213	* 418 242	* 3 042 110	**6 902 892		13 056 457
10	Tar: Gallons per short ton of coal carb. (l. 9 + l. 1)				8 95		8 95
11	Fuel under retorts: Coke (short tons)				95 370 00		95 370 00
12	Coal (short tons)				-		-
13	Lbs. fuel per ton coal carbonized (ll. 11 + 12 + l. 1)				247 33		247 33
14	Boiler fuel: Average number boilers	6	4	6	5	3	24
15	Solid fuel (short tons)	11 211 86	2 687 09	5 676 54			19 575 49
16	Tar used (gals.)	1 577 841	397 756	1 483 194			3 458 791
17	Lbs. fuel (solid or liquid) per M made	7 90	11 27	6 26			7 30
18	Generators: Average number in use	3	2	4			9
19	Total square feet of grate surface ***	219	132	272			623
20	Make (hourly) per sq. ft. of grate surface (cu. ft.)	3 122	2 513	3 069			3 088
21	Generator fuel per M made (lbs.)	29 57	31 40	27 55			28 71
22	Gas oil: Gallons used	18 430 659	2 783 351	17 580 861			38 794 871
23	Tar yield in % of gals. (l. 9 + l. 22) <i>not gas tar only</i>	14 61	15 03	17 30			15 86
24	Gallons per M made	2 93	3 00	2 58			2 76
25	Average cost per gallon, cents and hundredths	5 05	4 86	5 04			5 03
26	Gas purified: Bu. oxide	51 000	-	46 265	185 540		282 805
27	Cu. ft. coal gas per bu.				48 392		
28	Cu. ft. water gas per bu.	123 153	-	147 503			81 366
29	Cu. ft. mixed gas per bu.						-
30	Heating value of gas: B. t. u. maximum day	548	554	546	582		-
31	Minimum day	544	538	485	545		-
32	Average for year	545	545	513	568		544

* Water gas tar ** Oven gas tar

509. RESIDUALS. ***

Grate surface of one generator multiplied by average number of generators in use.

Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.

Line No.	Item (a)	Coke (tons) (b)	Oven gas tar (gals.) (c)	Water gas tar (gals.) (d)	Ammoniacal liquor (gals.) (e)	Carbon (lbs.) (f)	Drip oil (gals.) (g)	Sulphate of Ammonia Other residuals (h)
41	On hand at beginning of year	49 849 66	195 000	1 396 605	** Does not include purchased coke		107 327	1 221 11
42	Made during year	581 431 00	6 902 892	6 153 565			226 070	8 866 57
43	Used during year	326 609 09	110	4 237 165			-	-
44	Sold during year	213 989 13	6 719 782	2 066 617			276 320	9 024 01
45	On hand at end of year	90 949 44	378 000	1 246 388			57 077	1 063 67
46	Credits on account of residuals produced *	\$ 4 138 100 55c.	\$ 276 108 47c.	\$ 194 940 09c.	*** Residuals expense on oven gas tar and sulphate can not be separated.		\$ 19 339 39	229 425 84c.
47	Residuals expense	74 955 08.	-	-			-	*** 166 485 87.
48	Receipts from sales	1 456 495 92	269 791 28	72 331 65			19 339 39	246 445 74
49	Average selling price	6.8064	.040000	.035000			.069989	27.3100

Green Ink Corrections by P. S. G. Accounting Division

518:12 Important Units of Plant and Equipment Installed during the Year

Line No.	Location and description (a)	Book Value \$ (b)
1	Greenpoint Works:	22,614.21
2	1 coke crusher	3,292.59
3	Extension of coal conveyor	1,612.21
4	" coke bridge track	3,815.80
5	1 booster pump	1,657.75
6	1 butterfly valve in producer gas line	3,758.44
7	Emergency quenching station	7,229.20
8	1 coal bucket	2,000.00
9	Weighing device for regulation of coal feed	
10	Fifth Street Station:	1,192.22
11	Telemetric gauge transmitter	
12	Twelfth Street Station:	4,443.76
13	Motor control on outlet valves of compressors	7,467.13
14	Connection of 24" high pressure main to 20" low pressure main	
15	Waspeth Avenue Station:	9,676.19
16	Additional electric power cables	
17	Flatbush Station:	1,633.25
18	Motor control on outlet valves of compressors	
19	Gas Service Station:	18,793.16
20	Improvements to buildings	15,104.80
21	" " garage plaza	17,945.73
22	Sub-Station	
23	Flatbush Branch:	2,326.98
24	1 illuminated sign	
25	Metropolitan Sub-Branch No. 2:	2,098.84
26	Laboratory equipment	
27	Willemburgh Branch:	2,157.21
28	1 illuminated sign	
29	Jamaica Branch:	
30	Extension of elevator rise	3,863.27
31		
32		
33		
34		
35		
36		
37		
38		
39		
40		
41		
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56		

518:13 Important Units of Plant and Equipment Withdrawn During the Year.

Line No.	Location and description (a)	Capacity (each) (b)	Book value \$ (c)
1	Nassau Works and Kent Avenue Station:		
2	The cost of the separate units is not known		4,187,807.28
3	Greenpoint Works:		
4	Parts of 2 generators		15,275.00
5	Plymouth Street Station and Auto Body Shop:		353,354.84
6	The cost of the separate units is not known		
7	Scholes Street Station:		
8	2 Hazelton Boiler Company boilers	50 H.P.	3,475.16
9	Jamaica Station		
10	2 Hazelton Boiler Company boilers	50 H.P.	3,302.99
11	63-65-67 Gold Street		
12	3 Dwellings		9,300.00
13			
14			
15			
16			
17			
18			
19			
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22			
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29			
30			
31			

ELECTRIC CORPORATIONS
MANUFACTURED GAS CORPORATIONS } CLASSES A, B, AND C
NATURAL GAS CORPORATIONS

ORIGINAL

YEAR ENDED
DECEMBER 31, 1932

Report of The Brooklyn Union Gas Company
(Here show in full the exact corporate, firm, or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at 176 Remsen Street, Brooklyn, N.Y.
(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1932

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1933

Report for the Year Ended December 31, 1932

CLASS A AND B (Annual operating revenues in excess of \$50,000).

31A. DIRECT OPERATING EXPENSES - MANUFACTURED GAS.

1. Show the various items of direct expenses in conducting manufactured gas operations for the year, classified in accordance with the effective Uniform System of Accounts.

2. All credit entries in this schedule should be made in red ink.

Line No.	Name of account	Expense during year	Name of account	Expense during year
1	201.1 Works superintendence	215 482 48	721.1 Transmission pumping	249 575 04
2	201.2 Boiler labor	96 236 39	721.21 Distribution superintendence	441 385 77
3	201.3 Return labor	-	721.22 Distribution supplies and expenses	91 869 84
4	201.4 Generator labor	136 410 27	721.2 Distribution superintendence and expenses	533 255 6
5	201.5 Purification labor	14 040 74	721.31 Maintaining installations	189 538 1
6	201.6 Miscellaneous works labor	146 491 70	721.32 Work on consumers' premises	264 134 1
7	201 Works superintendence and labor	608 661 58	721.33 Installing consumers' meters	453 672 3
8	201.1 Boiler fuel	184 309 71	721.3 Consumers' premises work	406 941 4
9	201.2 Water	32 506 94	721.4 Removing and resetting meters	807 692 2
10	201 Fuel under return	-	722.1 Maintenance of mains	260 589 7
11	204 Coal carbonized	-	722.2 Maintenance of services	4215 6
12	205 Generator fuel	1 393 975 88	722.31 Maintenance of shop buildings	35 858 1
13	206 Water gas oil	1 251 718 87	722.32 Maint. of distribution implements and accessories	389 208 3
14	207.1 Manufactured gas Refinery gas	217 325 30	722.33 Maintenance of gas appliances	23 066 2
15	207.2 Purification supplies	44 608 86	723 Maintenance of consumers' meters	3 113 726 7
16	207.3 Miscellaneous works expense	72 738 21	731 Operation of street lamps	-
17	207.4 Gas storage	198 325 35	732 Maintenance of street lamps	-
18	Total, Accounts 201.1 to 207.4, incl.	3 395 509 12	733 Total Street Lighting Expenses	-
19	208 Maintenance of works and station structures	80 976 66	761.1 Commercial general labor	693 098 1
20	209.12 Maintenance of furnaces and boilers	25 841 90	761.21 Commercial bookkeeping	574 913 8
21	209.13 Maintenance of boiler apparatus	7 304 44	761.22 Commercial contracts	130 998 9
22	209.14 Maintenance of steam accessories	18 312 45	761.3 Commercial meter reading and collecting	705 912 7
23	209.15 Maintenance of steam engines	11 990 82	761.31 Commercial collecting	336 359 8
24	209.16 Maintenance of internal combustion engines	4 437 83	761.32 Meter reading	246 010 7
25	209.17 Maintenance of miscellaneous power equipment	1 919 91	761.4 Commercial supplies and expenses	582 370 6
26	209.1 Maintenance of power equipment	69 807 35	762 Agents' commissions	360 938 0
27	209.21 Maintenance of benches and retorts	-	Total Commercial Expenses	2 342 319 5
28	209.22 Maintenance of water gas sets	-	771.11 New business management salaries	178 679 4
29	209.23 Maintenance of purification apparatus	80 777 99	771.12 New business advertising salaries	23 319 23
30	209.24 Maintenance of boilers	15 953 58	771.1 New business salaries	201 998 6
31	209.25 Maintenance of accessory works equipment	54 716 93	771.21 Demonstration	56 004 38
32	209.26 Maintenance of laboratory equipment	40 484 33	771.23 Advertising supplies and expenses	153 525 43
33	209.27 Maintenance of implements and accessories	445 09	771.24 Canvassing and soliciting	599 312 82
34	209.2 Maintenance of gas apparatus and tools	3 804 53	771.25 Miscellaneous new business supplies and expenses	106 995 10
35	210 Gas from other sources	196 182 45	771.2 New business supplies and expenses	715 837 70
36	211 Power from other sources	-	Total New Business Expenses	917 836 37
37	212 Steam generated - Apportionment account	-	Total Direct Operating Expenses - Mfg.	11 342 363 98
38	213 Residuals produced - Cr.	-		
39	214 Residuals expense	201 948 07		
40	215 Duplicate production charges - Cr.	-		
41	216 Production expenses transferred - Cr.	5 258 34		
42	Total Production Expenses carried forward	824 550 51		
		4 968 481 26		

* Details on insert page 508 a

419. Manufactured Gas Plants.

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24 hour capacity M. cu. ft. (c)	Number of ovens (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N. Y.	20,000	2 batteries, each containing 45 ovens; total 90 ovens.
3				
4				
5				
6				
7				
8				Number of water gas sets
9	(f)	(g)	(h)	(i)
10	Water gas plants:			
11	Citizens Works	433 Hoyt Street, Brooklyn, N.Y.	25,000	10
12	Williamsburgh Works ✓	Foot of North 12th Street, Brooklyn, N.Y.	30,000	12
13				
14	Metropolitan Works ✓	53 Twelfth Street, Brooklyn, N.Y.	20,000	9
15	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N.Y.	25,000	6
16				
17				
18			<u>100,000</u>	<u>37</u>
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				

✓ Did not manufacture from May 15 to December 31, 1935

✓ Was a standby plant during year.

" The variations in capacity of
gas plants from 1931 are due to a re-
determination of the productive
capacities of those plants by the
Company's engineers."

Extract from letter dated 10/20/33.

420. Auxiliary Apparatus at Manufactured Gas Plants - Relief Holders

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year Installed (d)	Capacity (e)
1	Citizens Works	1	Bartlett-Hayward Company	1889	246,000
2	"	1	"	1930	800,000
3	Williamsburgh Works	1	Jesse Starr Company	1863	315,000
4	Metropolitan Works	1	Hoey, Kennedy and Company	1872	320,000
5	Greenpoint Works	1	Bartlett-Hayward Company	1927	1,000,000
6					
7		<u>5</u>			<u>2,681,000</u>
8					
9					
10	Note:				
11	Withdrawn from service				
12	since Dec. 31, 1931:				
13					
14	Metropolitan Works	1	Bartlett-Hayward Company	1903	105,000
15					
16					
17					
18	Producer gas holders				
19	Greenpoint Works	1	Western Gas Construction Co.	1928	40,000
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

420. Auxiliary Apparatus at Manufacturing Gas Plants - Tanks

No. in List	Description of plant or station (a)	Number of units (b)	Maker or builder (c)	Year Installed (d)	Capacity Gals.	
					(e)	(f)
1	Tar tanks:					
2	Citizens Works	1	Not known	1902	21,000	21,000
3	"	1	"	1879	90,000	90,000
4	"	3	"	1886	12,000	90,000
5	"	1	"	1886	30,000	30,000
6	"	2	"	1886	27,000	34,000
7	"	2	"	Unknown	2,500	5,000
8	"	2	"	"	500	1,000
9	"	1	"	1918	5,000	5,000
10	"	3	"	1921	39,000	112,000
11	"	1	"	Unknown	4,500	4,500
12	"	3	"	1918	20,000	100,000
13	"	4	"	"	10,000	40,000
14	Williamson's Works	1	Logan Iron Works	1888	225,000	225,000
15	"	2	C. L. Rowland	"	4,000	12,000
16	"	1	Bearley-Heyward Co.	1906	43,000	43,000
17	"	1	"	"	30,000	30,000
18	"	2	Not known	1910	5,000	11,000
19	"	1	"	"	22,000	22,000
20	"	1	"	"	11,000	11,000
21	"	1	Bearley-Heyward Co.	1911	1,500	1,500
22	"	1	C. O. Omdahlson & Son	1922	21,500	21,500
23	"	1	C. L. Rowland	1888	158,000	158,000
24	Metropolitan	1	C. Omdahlson & Son	1903	24,178	24,178
25	"	1	Not known	1900	3,384	3,384
26	"	1	Logan Iron Works	1882	123,542	123,542
27	"	1	Bearley-Heyward Co.	1911	150,000	150,000
28	"	1	Not known	1913	900	900
29	"	3	Bearley-Heyward Co.	1921	44,004	132,102
30	"	3	"	"	22,500	112,500
31	"	1	"	"	31,450	31,450
32	Greenwald's	3	"	1927	40,000	221,000
33	"	1	"	"	40,000	40,000
34	"	2	"	"	205,000	309,000
35	"	1	"	"	21,000	21,000
36	"	1	The Koppers Construction Co.	1922	390,000	390,000

432,667,332

Notes:

1. Citizens Iron Works
2. L. D. L. L. L.

Greenwald's Works

1. The Koppers Construction Co.

1922

900

900

420. Auxiliary Apparatus of Manufacturing Gas Plants - Tanks (continued)

Designation of plant or equipment (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Each (e)	Total (f)
Oil tanks:					
Greensport Works	1	Not known	1928	252,000	252,000
" "	1	" "	1918	411,000	411,000
" "	1	Harbison-Royce Co.	1918	252,000	252,000
Manufacturing Works	1	Not known	1924	252,000	252,000
" "	1	C. Cunningham	1928	252,000	252,000
" "	1	Harbison-Royce Co.	1918	252,000	252,000
" "	1	" "	1921	252,000	252,000
Manufacturing	1	Logan Iron Works	1928	252,000	252,000
" "	1	Not known	1924	252,000	252,000
" "	1	Harbison-Royce Co.	1911	252,000	252,000
Greensport	1	" "	1927	1,020,000	1,020,000
" "	1	Logan Iron Works	1924	252,000	252,000
	<u>12</u>				<u>5,520,000</u>
Ammonia storage tanks:					
Greensport Works	1	Harbison-Royce Co.	1928	25,000	25,000
Acid storage tanks:					
Greensport Works	1	The Koppers Construction Co.	1928	25,000	25,000
Ammonia liquor storage tanks:					
Greensport Works	1	The Koppers Construction Co.	1928	25,000	25,000

420. Auxiliary Apparatus at Manufactured Gas Plants - Electric Motors (Continued)

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity Each (e)	Total (f)
1	Greenpoint Works	1	Diehl Manufacturing Company	1928	-	-
2	"	2	I. L. G. Elect. Vent. Co.	1932	1/40	2/40
3	"	1	" " " "	1932	1/8	1/8
4	"	2	General Electric Company	1932	7.5	15
5	"	2	" " " "	1932	1/8	1/4
6	"	4	Ohio Elect. Cont. Company	1928	.25	1
7	"	4	" " " "	1932	.25	1
8	"	1	" " " "	1932	4 Oz. Ft.	4 Oz. Ft.
9	"	1	Westinghouse Electric Co.	1928	-	-
10	"	1	Diehl Manufacturing Company	1928	-	-
11	"	2	General Electric Company	1928	-	-
12	"	1	" " " "	1932	.75	.75
13	"	3	Westinghouse Electric Co.	1932	-	-
14	"	4	General Electric Company	1927	2	8
15	"	2	" " " "	1927	1	2
16	"	1	" " " "	1929	25	25
17	"	1	" " " "	1929	25	25
18	"	1	" " " "	1927	1.5	1.5
19	"	2	" " " "	1927	7.5	15
20	"	2	" " " "	1927	7.5	15
21	"	2	" " " "	1927	50	100
22	"	2	" " " "	1927	5	10
23	"	1	" " " "	1928	3	3
24	"	1	Diehl Manufacturing Company	1928	-	-
25	"	1	General Electric Company	1928	15	15
26	"	4	" " " "	1927	25	100
27	"	5	Westinghouse Electric Co.	1928	.42	2.1
28	"	1	General Electric Company	1927	3	3
29	"	1	" " " "	1927	20	20
30	"	1	" " " "	1927	15	15
31	"	1	" " " "	1927	20	20
32	"	1	" " " "	1927	-	-
33	"	2	" " " "	1932	3	6
34	"	5	" " " "	1932	.5	2.5
35	"	4	" " " "	1932	.25	1
36	"	2	General Electric Company	1932	2	4
37	"	1	" " " "	1928	1.5	1.5
38	"	2	" " " "	1927	5	10
39	"	1	Westinghouse Electric Co.	1927	3	3
40	"	1	General Electric Company	1927	2	2
41	"	1	" " " "	1927	10	10
42	"	1	" " " "	1927	1.5	1.5
43	"	1	" " " "	1927	2	2
44	"	1	" " " "	1927	5	5
45	"	1	" " " "	1927	1/8	1/8
46	"	1	" " " "	1927	1	1
47	"	1	" " " "	1927	5	5
48	"	1	Westinghouse Electric Co.	1927	1	1
49	"	1	General Electric Company	1927	1	1
50	"	1	" " " "	1927	5	5
51	"	1	" " " "	1927	5	5
52	"	2	M.C. Electric Tool Co.	1927	-	-
53	"	1	General Electric Company	1927	5	5
54	"	1	" " " "	1927	1	1
55	"	1	" " " "	1927	5	5
56	"	1	" " " "	1927	5	5

420. Auxiliary Apparatus at Manufactured Gas Plants - Electric Motors (Continued)

Line No	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity Each (e)	Capacity Total (f)
1	Greenpoint Works	1	General Electric Company	1927	.5	.5
2	"	1	"	1927	.5	.5
3	"	1	"	1927	4	4
4	"	1	Louis Allis Company	1927	.67/2	.67/2
5	"	1	Westinghouse Electric Co.	1927	15	15
6	"	1	General Electric Company	1927	2.5	2.5
7	"	1	"	1927	15	15
8	"	1	"	1927	3	3
9	"	1	"	1930	20	20
10	"	1	"	1930	1	1
11	"	1	Imperial Electric Company	1929	3	3
12	"	1	General Electric Company	1929	11	11
13	"	1	"	1927	1	1
14	"	1	Cincinnati Tool Company	1928	-	-
15	"	1	General Electric Company	1927	1	1
16	"	1	General Electric Company	1927	1	1
17	"	3	Clark Electric Company	1927	-	-
18	"	1	M.S. Tool Company	1927	-	-
19	"	1	Black & Decker	1927	-	-
20	"	1	"	1927	-	-
21	Greenpoint Works	1	General Electric Company	1928	5	5
22	(continued)	1	"	1928	5	5
23	"	1	"	1928	60	120
24	"	2	"	1928	100	100
25	"	1	"	1928	1/2	1/2
26	"	1	"	1928	1/2	1/2
27	"	1	"	1928	7-1/2	7-1/2
28	"	1	"	1928	7-1/2	7-1/2
29	"	1	"	1928	7-1/2	7-1/2
30	"	1	"	1928	7-1/2	7-1/2
31	"	1	"	1928	7-1/2	7-1/2
32	"	1	"	1928	7-1/2	7-1/2
33	"	1	"	1928	7-1/2	7-1/2
34	"	1	"	1928	125	125
35	"	1	"	1928	15-3 1/2	15-3 1/2
36	"	1	"	1928	15-3 1/2	15-3 1/2
37	"	1	Allis Chalmers	1928	15-3 1/2	15-3 1/2
38	"	1	"	1928	15-3 1/2	15-3 1/2
39	"	1	"	1928	15-3 1/2	15-3 1/2
40	"	1	"	1928	15-3 1/2	15-3 1/2
41	"	1	"	1928	5	5
42	"	1	General Electric Company	1928	40	40
43	"	1	"	1928	40	40
44	"	1	"	1928	20	20
45	"	1	"	1928	7-1/2	7-1/2
46	"	1	"	1928	5	5
47	"	1	"	1928	5	5
48	"	1	"	1928	5	5
49	"	1	"	1928	2	2
50	"	1	"	1928	2	2
51	"	1	"	1928	30	30
52	"	1	"	1928	5	5
53	"	1	"	1928	10	10
54	"	1	"	1928	10	10
55	"	1	"	1928	20	20
56	"	1	"	1928	10-20	10-20

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Line 10

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420. Auxiliary Apparatus at Manufactured Gas Plants - Electric Motors (Continued)

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity (e)	Capacity (f)
1	Greenpoint Works (continued)	1	General Electric Company	1930	50	50
2	"	1	"	1928	5	5
3	"	1	"	1928	5	5
4	"	1	"	1928	5	5
5	"	1	"	1928	5	5
6	"	1	"	1928	5	5
7	"	1	"	1928	5	5
8	"	1	"	1928	450	450
9	"	1	"	1928	450	450
10	"	1	"	1928	50	50
11	"	1	"	1928	75	75
12	"	1	"	1928	75	75
13	"	1	"	1928	75	75
14	"	1	"	1928	25	25
15	"	1	"	1928	100	100
16	"	1	"	1928	40	40
17	"	1	"	1928	30	30
18	"	1	"	1928	40	40
19	"	1	"	1928	5	5
20	"	1	"	1928	10	10
21	"	1	"	1928	10	10
22	"	1	"	1928	10	10
23	"	1	"	1928	1	1
24	"	1	"	1928	-	-
25	"	1	"	1928	5-2 $\frac{1}{2}$	5-2 $\frac{1}{2}$
26	"	1	"	1928	5-2 $\frac{1}{2}$	5-2 $\frac{1}{2}$
27	"	1	"	1928	125	125
28	"	1	"	1928	125	125
29	"	1	"	1928	125	125
30	"	1	"	1928	125	125
31	"	1	"	1928	1 $\frac{1}{2}$	1 $\frac{1}{2}$
32	"	1	"	1928	1-1/2	1-1/2
33	"	1	"	1928	200	200
34	"	1	"	1928	20	20
35	"	1	"	1928	7 $\frac{1}{2}$ -5 $\frac{1}{2}$	7 $\frac{1}{2}$ -5 $\frac{1}{2}$
36	"	1	"	1928	7-1/2	7-1/2
37	"	1	"	1928	7-1/2	7-1/2
38	"	1	"	1928	7-1/2	7-1/2
39	"	1	"	1928	7-1/2	7-1/2
40	"	1	"	1928	5	5
41	"	1	"	1928	5	5
42	"	1	"	1928	15	15
43	"	1	"	1928	15	15
44	"	1	"	1928	35	35
45	"	1	"	1928	35	35
46	"	1	"	1928	35	35
47	"	1	"	1928	35	35
48	"	1	"	1928	35	35
49	"	1	"	1928	75	75
50	"	1	"	1928	35	35
51	"	1	"	1928	35	35
52	"	1	"	1928	3	3
53	"	1	"	1928	3	3
54	"	1	"	1928	3	3
55	"	1	"	1928	3	3

420. Auxiliary Apparatus at Manufactured Gas Plants - Electric Motors (Continued)

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Greenpoint Works					
2	(continued)	1	General Electric Company	1928	3	3
3	"	1	" " "	1928	3	3
4	"	1	" " "	1928	3	3
5	"	1	" " "	1928	3	3
6	"	1	" " "	1928	3	3
7	"	1	" " "	1928	3	3
8	"	1	" " "	1928	3	3
9	"	1	" " "	1928	3	3
10	"	1	" " "	1928	3	3
11	"	1	" " "	1928	3	3
12	"	1	" " "	1928	20	20
13	"	1	" " "	1928	10	10
14	"	1	" " "	1928	30	30
15	"	1	" " "	1928	40	40
16	"	1	" " "	1928	40	40
17	"	1	" " "	1928	20	20
18	"	1	" " "	1928	2	2
19	"	1	" " "	1928	2	2
20	"	1	" " "	1928	-	-
21	"	1	Westinghouse Electric Company	1928	5	5
22	"	1	General Electric Company	1928	85	85
23	"	1	" " "	1928	85	85
24	"	1	" " "	1928	85	85
25	"	1	" " "	1928	85	85
26	"	1	" " "	1928	3	3
27	"	1	" " "	1928	3	3
28	"	1	" " "	1928	1-1/2	1-1/2
29	"	1	" " "	1928	10	10
30	"	1	" " "	1928	3	3
31	"	1	" " "	1928	20	20
32	"	1	" " "	1928	1-1/2	1-1/2
33	"	1	" " "	1928	1-1/2	1-1/2
34	"	1	Clemmens	1928	1/3	1/3
35	"	1	Westinghouse Electric Co.	1928	3	3
36	"	1		1928	1/2	1/2
37	"	1	General Electric Company	1928	2	2
38	"	1	" " "	1928	3	3
39	"	1	Master Electric Company	1928	1-1/2	1-1/2
40	"	1	Lincoln	1928	15	15
41	"	1	CinCy. Electric Company	1928	2	2
42	"	1	General Electric Company	1928	5	5
43	"	1	" " "	1928	5	5
44	"	1	" " "	1928	25	25
45	"	1	" " "	1928	25	25
46	"	1	" " "	1928	15	15
47	"	1	" " "	1928	9	9
48	"	1	" " "	1928	9	9
49	"	1	" " "	1928	10	10
50	"	1	" " "	1928	10	10
51	"	1	" " "	1928	10	10
52	"	1	" " "	1928	2	2
53	"	1	Westinghouse Electric Co.	1928	5	5
54	"	1	" " "	1928	5	5
55	"	1	" " "	1928	5	5
56	"	1	" " "	1928	5	5

420. Auxiliary Apparatus at Manufactured Gas Plants - Electric Motors (Continued)

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Greenpoint Works					
2	(continued)	1	Westinghouse Electric Co.	1928	5	5
3	"	1	" "	1928	5	5
4	"	1	" "	1928	10	10
5	"	1	" "	1928	10	10
6	"	1	" "	1928	10	10
7	"	1	" "	1928	35	35
8	"	1	" "	1928	35	35
9	"	1	" "	1928	150	150
10	"	1	" "	1928	150	150
11	"	1	" "	1928	150	150
12	"	1	" "	1928	150	150
13	"	1	" "	1928	150	150
14	"	1	" "	1928	150	150
15	"	1	" "	1928	100	100
16	"	1	" "	1928	100	100
17	"	1	" "	1928	100	100
18	"	1	" "	1928	100	100
19	"	1	" "	1928	100	100
20	"	1	" "	1928	100	100
21	"	1	" "	1928	100	100
22	"	1	" "	1928	100	100
23	"	1	" "	1928	100	100
24	Maspeth Avenue Station	4	General Electric Company General Electric Company	1928 1927	100 950	100 3,800

529 530

450. Auxiliary Apparatus at Manufactured Gas Plants - Station Meters.

Line	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Citizens Works	1	American Meter Company	1870	127,500	127,500
2	"	1	Maryland Meter Company	1893	63,000	63,000
3	"	1	Equitable Meter Company	1906	170,000	170,000
4	"	2	D. McDonald Company	1922	215,000	430,000
5	"	2	"	1923	215,000	430,000
6	"	1	Connorsville Blower Co.	1930	937,500	937,500
7	Williamsburgh Works	1	D. McDonald Company	1864	135,000	135,000
8	"	1	"	1890	199,500	199,500
9	"	1	"	1898	135,000	135,000
10	"	1	American Meter Company	1904	215,000	215,000
11	"	1	Equitable Meter Company	1909	150,000	150,000
12	"	2	D. McDonald Company	1922	215,000	430,000
13	Metropolitan	1	Equitable Meter Company	1905	180,000	180,000
14	"	2	D. McDonald Company	1911	215,000	430,000
15	"	1	Rotary Meter Company	1918	175,000	175,000
16	"	2	D. McDonald Company	1923	184,000	368,000
17	Greenpoint	2	Connorsville Blower Co.	1927	937,500	1,875,000
18	"	2	"	1927	937,500	1,875,000
19	Flatbush Station	1	American Meter Company	1910	27,500	27,500
20	Newtown	1	Stacey Engineering Company	1931	30,000	30,000
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
						<u>8,383,000</u>

420. Auxiliary Apparatus at Manufactured Gas Plants - Boilers

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year Installed (d)	Capacity	
					Each (e)	Total (f)
1	Citizens Works	2	Babcock and Wilcox Company	1922	335	670
2	"	1	"	1923	335	335
3	"	3	"	"	600	1,800
4	"	3	"	1924	600	1,800
5	Williamsburg Works	3	"	1908	414	1,242
6	"	2	"	1909	414	828
7	"	4	Aultman and Taylor	1904	250	1,000
8	"	1	Heine Boiler Company	1917	504	504
9	"	1	"	1920	564	564
10	"	2	Wickes Boiler Company	1925	503	1,006
11	Metropolitan Works	1	Babcock and Wilcox Company	1911	335	335
12	"	3	"	1923	335	1,005
13	"	2	"	1910	440	880
14	"	1	"	1911	440	440
15	"	1	"	1912	440	440
16	"	1	Heine Boiler Company	1916	482	482
17	"	1	"	1917	482	482
18	Greenpoint Works	5	Babcock and Wilcox Company	1927	600	3,000
19	"	6	Wickes Boiler Company	1927	503	3,018
20	"	7	"	1928	175	1,235
21	Front Street Station	2	Atlantic Steam Engine Works	1896	70	140
22	Scholes	1	Hazelton Boiler Company	1909	250	250
23	"	*1	Bryant Heater & Mfg. Co.	1928	5 $\frac{1}{2}$	5 $\frac{1}{2}$
24	"	*1	American Radiator Company	1928	20	20
25	"	*1	"	1930	20	20
26	Wythe Avenue	2	Babcock and Wilcox Company	1908	207	414
27	"	1	"	1923	297	297
28	"	1	"	1924	297	297
29	Belmont Avenue	2	Hazelton Boiler Company	1903	100	200
30	Flatbush	2	Babcock and Wilcox Company	1902	250	500
31	Newtown	2	Aultman and Taylor	1912	250	500
32						
33						
34						
35						
36						
					66	
					23,699 $\frac{1}{2}$	

420. Auxiliary Apparatus at Manufactured Gas Plant - Steam Engines.

Line No.	Designation of plant or station (a)		Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
						Each (e)	Total (f)
1	Citizens Works		1	Terry Turbine Engine Co.	1918	185	185
2			1	Buckeye Engine Company	1908	125	125
3			1	Greenfield Engine Co.	1906	15	15
4			1	" " "	1921	15	15
5			1	F.G. & A.P. Rowland " "	1906	12	12
6			1	Mead-Morrison Mfg. Co.	1906	25	25
7			1	Greenfield Engine Co.	1915	8	8
8			4	B. F. Sturtevant Co.	1921	200	800
9			1	Buckeye Engine Company	1921	318	318
10			3	Terry Turbine Engine Co.	1921	50	150
11			2	" " "	1921	80	160
12			2	Alberger Pump & Condenser Co.	1921	40	80
13			4	" " "	1923	40	160
14			1	Mead-Morrison Mfg. Co.	1922	75	75
15			1	Godfrey Keeler Company	1922	20	20
16			5	Terry Turbine Engine Co.	1923	412	2,060
17			1	Alberger Pump & Condenser Co.	1923	80	80
18			1	General Electric Company	1924	27.5	27.5
19			3	Alberger Pump & Condenser Co.	1925	57.5	172.5
20			1	Harrisburgh Foundry & Mach. Wks.	1926	120	120
21			1	Greenfield Engine Company	1930	10	10
22			1	General Electric Company	1930	335	335
23	Williamsburgh "		3	Buckeye Engine Company	1908	150	450
24			1	" " "	1920	150	150
25			2	B.F. Sturtevant Company	1918	300	600
26			3	" " "	1918	185	555
27			1	" " "	1921	185	185
28			2	Terry Turbine Engine Co.	1918	185	370
29			1	" " "	1919	185	185
30			3	Alberger Pump & Condenser Co.	1923	71	213
31			3	" " "	1923	43	129
32			1	General Electric Company	1925	20	20
33	Metropolitan "		1	Mead-Morrison Mfg. Co.	1926	56	56
34			1	" " "	1926	55	55
35			3	General Electric Company	1926	45	135
36			1	Harrisburgh Foundry & Mach. Wks.	1918	120	120
37			3	Terry Turbine Engine Co.	1911	412	1,236
38			4	" " "	1923	412	1,648
39			2	Buckeye Engine Company	1911	120	240
40			1	B.F. Sturtevant Company	1912	45	45
41			1	Terry Turbine Engine Co.	1917	185	185
42			1	B.F. Sturtevant Company	1920	200	200
43	Greenpoint "		1	Mead-Morrison Mfg. Co.	1922	75	75
44			1	Alberger Pump & Condenser Co.	1921	70	70
45			1	" " "	1923	75	75
46			3	" " "	1923	50	150
47			2	" " "	1924	49	98
48			1	" " "	1924	80	80
49			1	General Electric Company	1924	27.5	27.5
50			3	B.F. Sturtevant Company	1927	50	150
51			3	" " "	1927	110	330
52			5	" " "	1927	36	180
53	"		3	" " "	1927	28	84
54			6	" " "	1927	380	2,280
55			2	Troy Engine & Machinery Co.	1927	No rating	-
56	"		3	Harrisburgh Foundry & Machine Wks.	1927	184	552

Omitted from 1931 report.

Green Ink Corrections by P. S. C. Accounting Division

Authorized by letter dated 3/22/34 Clerk H. A. S.

420 Auxiliary Apparatus at Manufactured Gas Plants - Steam Engines (continued)

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity Each (e)	Capacity Total (f)
1	Greenpoint Works (cont'd.)	3	B.F. Sturtevant Company	1927	18	54
2	"	3	"	1927	75	225
3	"	1	"	1932	50	50
4	"	3	General Electric Company	1928	78.5	235.5
5	"	3	"	1928	148.5	445.5
6	"	3	"	1928	347	1,041
7	"	1	Terry Turbine Engine Co.	1928	100	100
8	"	1	"	1928	80	80
9	"	1	"	1930	10	10
10	"	1	Dake Engine Company	1928	5	5
11	"	1	"	1928	3	3
12	"	2	"	1928	7	14
13	"	1	B.F. Sturtevant Company	1928	163	163
14	"	1	"	1928	121	121
15	Fifth Street Station	1	Buckeye Engine Company	1906	150	150
16	"	1	"	1918	150	150
17	"	1	"	1911	360	360
18	"	1	Harrisburgh Machine & Foundry Co.	1922	306	306
19	Twelfth "	2	Buckeye Engine Company	1912	330	660
20	"	1	"	1921	330	330
21	Front "	1	Nagle Engine & Boiler Works	1891	50	50
22	Scholes "	1	Krie City Iron Works	1909	150	150
23	Wythe Avenue "	2	Buckeye Engine Company	1911	360	720
24	"	1	"	1922	306	306
25	"	1	"	1924	306	306
26	Belmont "	2	N.Y. Safety Steam Power Company	1903	65	130

151

32,046.5

420. Auxiliary Apparatus at Manufactured Gas Plants - Compressors.

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity Each (e)	Total (f)
1	Citizens Works	1	Connersville Blower Co.	1908	500,000	500,000
2	"	1	"	1921	700,000	700,000
3	"	1	"	1926	630,000	630,000
4	"	1	General Electric Company	1930	1,250,000	1,250,000
5	Williamsburgh Works	3	P.H. & F.M. Root Company	1908	500,000	1,500,000
6	"	1	Connersville Blower Co.	1920	500,000	500,000
7	Metropolitan Works	2	"	1911	680,000	1,360,000
8	"	1	"	1918	680,000	680,000
9	Greenpoint Works	3	"	1927	850,000	2,550,000
10	"	3	General Electric Company	1928	714,000	2,142,000
11	Maspeth Avenue Station	4	"	1927	833,300	3,333,200
12						
13						
14		<u>21</u>				<u>15,145,200</u>

1. Show, hereunder, the various items of expense incurred by the production of gas at each of the stations operated by the respondent during any portion of the year and extend to the right below the total cost of all stations operated by the respondent with annual operating revenues below \$50,000 or which operate one manufacturing plant only.

2. Companies with annual operating revenues below \$50,000 or which operate one manufacturing plant only.

3. All credit entries in this schedule should be made in red ink.

510. PRODUCTION EXPENSES AND GAS MANUFACTURED BY STATIONS

Item	Description of station	Citizens Works		Williams-Pipe Line Works		Green Point Works		Steady Costs		Holder Stations		Total production expenses
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
1	701.1 Works superintendence	58	778	47	14	739	59					815
2	701.2 Boiler labor	54	049	19	7	839	77					96
3	701.3 Repair labor	-	-	-	-	-	-					-
4	701.4 General labor	61	094	78	7	308	27					126
5	701.5 Purification labor	5	900	55	476	56						14
6	701.6 Miscellaneous work labor	52	898	05	7	180	87					146
7	701.7 Works superintendence and labor	832	115	02	26	985	16					608
8	702.1 Boiler fuel	107	570	46	15	892	43					184
9	702.2 Water	17	881	58	1	269	74					32
10	703 Fuel under reports	-	-	-	-	-	-					-
11	704 Coal carbonized	733	690	91	83	104	64					-
12	705 Gasifier fuel	776	632	95	63	840	11					-
13	706 Water gas oil	-	-	-	-	-	-					-
14	707.1 Gas storage Refinery gas	26	814	45	3	852	89					44
15	707.2 Purification supplies	83	502	66	8	049	07					190
16	707.3 Miscellaneous work expense	-	-	-	-	-	-					-
17	707.4 Gas storage	1	696	638	97	174	910	98				2
18	Total, Accounts 701.1 to 707.4, incl.	34	667	69	1	902	52					90
19	708 Maintenance of works and station structures	12	682	50	616	75						85
20	709.12 Maintenance of furnaces and boilers	2	545	09	251	32						7
21	709.13 Maintenance of boiler superintendence	10	418	91	225	62						19
22	709.14 Maintenance of steam accessories	4	889	63	137	86						11
23	709.15 Maintenance of steam engines	-	-	-	-	-	-					-
24	709.16 Maintenance of internal combustion engines	739	52	162	94	800	80					4
25	709.17 Maintenance of miscellaneous power equipment	38	873	65	1	504	39					11
26	709.1 Maintenance of power equipment	-	-	-	-	-	-					-
27	709.23 Maintenance of turbines and reactors	48	695	79	8	045	82					50
28	709.22 Maintenance of water gas sets	8	575	30	885	08						16
29	709.21 Maintenance of purification apparatus	-	-	-	68	66						54
30	709.24 Maintenance of boilers	17	548	55	1	070	23					40
31	709.25 Maintenance of accessory work equipment	60	88	188	78	226	07					44
32	709.26 Maintenance of laboratory equipment	8	896	99	114	87						3
33	709.27 Maintenance of implements and accessories	71	967	76	3	708	22					68
34	709.2 Maintenance of gas separators and tools	-	-	-	-	-	-					-
35	711 Power from other sources	-	-	-	-	-	-					-
36	712 Steam generated - Apportionment account	-	-	-	-	-	-					-
37	713 Workable produced - Cr.	109	068	17	9	991	53					801
38	714 Workable produced - Cr. Workable produced - Cr.	-	-	-	-	-	-					5
39	Total cost of gas produced	1	545	954	91	209	019	65				4
40	Cost gas produced, \$4 cu. ft.	6	141	802	587	984						13
41	When gas produced, \$4 cu. ft.	-	-	-	-	-	-					-
42	Gas produced, \$4 cu. ft.	6	141	802	587	984						13
43	Total gas produced, \$4 cu. ft.	6	141	802	587	984						13
44	When gas produced, \$4 cu. ft.	21	967	76	11	951						68
45	When gas produced, \$4 cu. ft.	19	781		5	599						39

510. Production Expenses and Gas Manufactured, by Stations
Greenpoint Works - Coke Oven Gas Plant.

Line No.	Item (a)	\$ (b)	\$ (c)	Total production expense coke oven gas \$ (d)
1	Gross cost:			
2	Production labor			403,712.76
3	Production materials:			
4	Materials shown in Schedule 515		3,831,592.76	
5	Other production materials		264,272.64	4,095,865.40
6	Maintenance costs			207,050.48
7				
8	Total gross cost			4,706,628.64
9				
10	Residuals produced:			
11	Coke		3,670,155.80	
12	Oven gas tar		261,004.24	
13	Sulphate of ammonia		139,455.17	
14				
15	Total residuals produced		4,070,615.21	
16				
17	Residuals expense:			
18	Coke	72,146.93		
19	*Other residuals	116,641.58		
20				
21	Total residuals expense		188,788.51	
22				
23	Net credit for residuals			3,881,826.70
24				
25	Duplicate production charges - credit			251.43
26				
27	Net cost of coke oven gas made			824,550.51
28				
29	Coke oven gas produced - M.cu.ft.			8,409,583
30	Maximum 24 hour make - M.cu.ft. (with date)		January 27	25,125
31	Average daily make - M.cu.ft.			22,977
32				
33				
34	Total gas produced - water gas and coke oven gas - M.cu.ft.			22,330,509
35	Maximum 24 hour make - M.cu.ft. (with date)		March 10	84,691
36	Average daily make			61,012
37				
38				
39	* Materials shown in Schedule 515		63,538.62	
40	Other residuals expense		53,102.96	
41	Total		116,641.58	
42				
43				
44	Footnotes for page 508:			
45				
46	* Includes general production expenses:			
47	Works superintendence		43,360.53	
48	Miscellaneous works expense		3,351.97	
49	Total		46,712.50	
50				
51	** See insert page 508 a for figures relating to coke oven gas and grand total production.			
52	All of the figures in column (g) relate to water gas.			
53				
54	*** This item can not be allocated to any of the preceding columns.			
55				
56	**** Average for 105 days operation.			

Notes on: Schedule 511. Station Records and Quality of Out-put-Gas
and " 512. Residuals.

Line No.

- 1 Line 9:
2 (1) Water gas tar
3 (2) Oven gas tar
4

5 Line 17:

- 6 (3) The equivalent solid boiler fuel is calculated on the ratio of evaporation of solid
7 to liquid fired boilers. These figures for the year 1932 were as follows:
8
9

Pounds per M.

Works	Liquid boiler fuel	Solid boiler fuel	Equivalent solid boiler fuel	Ratio
	(a)	(b)	(c)	(d)
Citizens	2.51	3.27	7.29	1.60
Williamsburgh	3.60	5.19	10.41	1.45
Greenpoint	1.17	5.18	6.83	1.41
Average	1.87	4.34	7.13	1.49

$$a \times d + b = c$$

Note: The weight of a gallon of tar is 9 lbs.

24 Line 19:

- 25 (4) Grate surface of one generator multiplied by average number of generators in use.
26

27 Line 20:

- 28 (5) The basis of the figures on this line is as follows:
29
30

Works	Gas made (M. cu. ft.)	Total hours running	Average make per running hour (cu. ft.)	Grate area per machine (sq. ft.)	Hourly make per sq. ft. of grate area (cu. ft.)
Citizens	6,141,803	27,366	224,432	73	3,074
Williamsburgh	587,924	3,557	165,286	66	2,504
Greenpoint	7,191,199	27,703	259,582	68	3,817
Average	13,920,926	58,626	237,453	69	3,441

38 Line 23:

- 39 (6) It is not feasible to report this figure for the reason that the Greenpoint Works used
40 both gas oil and refinery gas for enrichment purposes, both of which enriching agents
41 produce tar.
42

43 Line 42:

- 44 (7) Includes 268.00 net tons purchased
45 (8) " 141,983 gallons (\$4,259.49) credited to profit and loss account (included
46 in amount of \$5,208.56 on page 301a, line 11.)
47

48 Line 43:

- 49 (9) Does not include 426.81 tons of purchased coke.
50

51 Line 47:

- 52 (10) Residuals expense on oven gas tar and sulphate can not be separated.
53
54
55
56

511. STATION RECORDS AND QUALITY OF OUT-PUT—GAS.

Continuing the same columnar arrangement as in schedule 510, show the requested information regarding production of gas in each station. Each manufactured and natural gas company should give information requested, lines 30 to 33, inclusive.

Continuing the same columnar arrangement as in schedule 3											
No.	Designation of station	Citizens Works		Milwaukee Works		Greenpoint Works		Greenpoint Works		Stand-by	Totals
		Water Gas Plant	Water Gas Plant	Water Gas Plant	Water Gas Plant	Coke Oven Plant	Coke Oven Plant				
	Item	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1	Gas coal: Bituminous carbonized (short tons)							707 979 00			707 979 00
2	Yield, gas per lb. coal (cu. ft.)							5 94			5 94
3	Average number retorts in action							90			90
4	Average charge per retort (lbs.)							26 040			26 040
5	Average period of carbonization (hrs.)							14 54			14 54
6	Average make per retort per day (cu. ft.)							255 300			255 300
7	Coke: Short tons produced							557 830 75			557 830 75
8	Coke: Ratio per short ton of coal carb. (1.7 ÷ 1.1)							78 79			78 79
9	Tar: Gallons produced	(1) 3 136 028	(1) 288 768	(1) 2 262 751	(2) 6 525 106			9 22			12 212 653
10	Tar: Gallons per short ton of coal carb. (1.9 ÷ 1.1)							88 435 00			88 435 00
11	Fuel under retorts: Coke (short tons)							249 82			249 82
12	Coal (short tons)							5		3	22
13	Lbs. fuel per ton coal carbonized (11.11 ÷ 12 ÷ 1.1)							9 987 54			25 190 07
14	Boiler fuel: Average number boilers	5	4	5				1 705 606			2 598 333
15	Solid fuel (short tons)	9 987 54	1 525 87	13 676 66				7 29			7 13
16	Tar used (gals.)	1 705 606	234 994	657 733				10 41			9
17	Lbs. fuel (solid or liquid) per M made (3)	7 29	10 41	6 83				2			628
18	Generators: Average number in use	4	2	3				152			3 441
19	Total square feet of grate surface (4)	292	132	204				21 05			25 55
20	Make (hourly) per sq. ft. of grate surface (cu. ft.) (5)	3 074	2 504	3 817				10 819 751			30 801 401
21	Generator fuel per M made (lbs.)	29 98	34 24	21 05				See note (6)			See note (6)
22	Gas oil: Gallons used	18 200 534	1 781 516	10 819 751				1 50			2 21
23	Tar yield in % of gals. (1.9 ÷ 1.22)	(1) 17 23	(1) 16 21	See note (6)				3 81			4 06
24	Gallons per M made	2 96	3 03					68 000			355 940
25	Average cost per gallon, cents and hundredths	4 27	3 55					45 729			45 729
26	Gas purified: Bn. oxide	104 040	-	68 000				183 900			355 940
27	Cu. ft. water gas per bu.							45 729			45 729
28	Cu. ft. water gas per bu.	59 033	-	105 753				80 917			80 917
29	Cu. ft. mixed gas per bu.							62 737			62 737
30	Heating value of gas: B. t. u. maximum day	551	556	540				573			-
31	Minimum day	542	542	494				563			-
32	Average for year	545	547	520				570			548
33	Specific gravity (to nearest hundredth of a per cent.)	65	64	68				40			-

Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.

512. RESIDUALS.

No.	Item (a)	Coke, tons (b)	Coke gas tar, gals. (c)	Water gas tar, gals. (d)	Ammoniacal liquor, gals. (e)	Carbon, lbs. (f)	Drip oil, gals. (g)	Separate, of Ammonia (h)			Other residuals (specify) (i)			
								Net tons	(j)	(k)	(l)	(m)	(n)	
41	On hand at beginning of year	90 949 44	378 000	1 246 388	-	-	57 077	1 063 67						
42	Made during year	(7) 558 098 75	6 525 106	(8) 5 829 530	-	-	309 659	7 753 72						
43	Used during year	(9) 305 181 73	-	2 991 114	-	-	-	-						
44	Sold during year	261 173 01	6 571 106	2 741 121	-	-	335 776	8 489 35						
45	On hand at end of year	82 693 45	332 000	1 343 683	-	-	30 960	328 04						
46	Credits on account of residuals produced*	\$ 670 155 80	\$ 261 004 24	\$ 183 097 76	\$ -	\$ -	\$ 188 50 29	\$ 159 455 19						
47	Residuals expense	72 146 93	-	-	-	-	-	116 641 58	(10)					
48	Receipts from sales	1 654 685 81	262 844 24	95 939 30	-	-	188 50 29	154 120 44						
49	Average selling price	6.3356	.040000	.035000	-	-	.056139	18.1546						

* Through account No. 713.

3	Proprietor's sales																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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414. SUMMARY OF PRODUCTION AND SALES—GAS, GASOLINE AND POLYMERIZED OLEFINS, 1974

Some measures a summary of the produced and purchased, and sold or otherwise disposed of. If systems are not fully implemented, append a statement giving the such systems the information called for by systems in column (2) for lines 44 to 50.

SYSTEMS OF PRODUCTION AND PURCHASE

Line	Produced and purchased, and sold or otherwise disposed of	Produced and purchased, if not sold	Sold or otherwise disposed of, if not sold
44	One produced and purchased, if not sold		
45	One produced and purchased, if not sold		
46	One produced and purchased, if not sold		
47	One produced and purchased, if not sold		
48	One produced and purchased, if not sold		
49	One produced and purchased, if not sold		
50	One produced and purchased, if not sold		

[illegible]

⁶ For more multiplicity in thinking, substitute the kind of *you* illustrated, i.e., manufactured, natural, or mixed (manufactured and natural) *you*.

to end A case. Also show in this section the number of full-size sentences.

521 - Important Changes During the Year

Line No.	Inquiry No.	
1	1.	Various minor improvements
2		
3	2.	Equipment for the reception and utilization of refinery gas was installed
4		at the Greenpoint Works water gas plant during the year.
5		
6	3.	No transmission lines were in process of construction at the end of the year.
7		
8		There were various minor extensions to the distribution lines in process
9		of construction at the end of the year.
10		
11	4.	.90 miles of transmission line and 18.21 miles of distribution line were
12		put into operation during the year. There were no changes in the total
13		number of miles of transmission and distribution line resulting from conversion.
14		
15	5.	None
16		
17	6.	30 shares of common stock were issued in exchange for \$1,500.00 of Ten year 7%
18		Convertible Debenture Bonds dated May 1, 1932, P. S. C. Case No. 309.
19		
20		364 shares of common stock were issued in exchange for \$18,200.00 of Ten year 5½%
21		Convertible Debenture Bonds dated January 1, 1936, P. S. C. Case No. 2177.
22		
23	7.	First Lien and Refunding Mortgage 5% Gold Bonds, Series B, due May 1, 1957, in
24		the amount of \$10,000,000.00 were issued for cash during the year. (Proceeds of
25		sale \$ 9,500,000.00, discount \$ 200,000.00, selling commission \$300,000.00)
26		
27		\$1,500.00 of Ten year 7% Convertible Debenture Bonds, dated May 1, 1932, were
28		converted into common stock, and bonds in the amount of \$6,300.00 were redeemed
29		at their face value after the expiration of the conversion privilege.
30		
31		\$18,200.00 of Ten year 5½% Convertible Debenture Bonds, dated January 1, 1936,
32		were converted into common stock.
33		
34	8.	\$12,000,000.00 was borrowed on short term notes from various banks and trust
35		companies during the year.
36		
37		\$19,700,000.00 borrowed on short term notes was paid during the year.
38		
39	9.	No change
40		
41	10.	" "
42		
43	11.	" "
44		

521:12 - Important Units of Plant and Equipment Installed During the Year.

Line No.	Location and description (a)	Book value	
		\$	(b)
1	Greenpoint Works:		
2	Accommodation Building	11,478.58	
3	Pipe system for reclaiming waste water	8,340.40	
4	Totalizing watt hour meter	1,471.47	
5	6' revolving pan mudmill	4,628.51	
6	System for dust treatment of coke	2,438.74	
7	Alterations to Service and Storage Building	26,134.28	
8	1 Air compressor	2,452.14	
9	1 Clam Shell bucket	1,084.08	
10	Equipment for reception and utilization of refinery gas	434,016.25	
11	Twelfth Street Station:		
12	3 speed governors	993.10	
13	Maspeth Avenue Station:		
14	Tar separating tank	3,519.83	
15	Joint clamps on mains in yards	2,056.85	
16	Wythe Avenue Station:		
17	3 Speed governors	1,146.70	
18	Springfield Property:		
19	9' Wire mesh fence	2,574.51	
20	Gas Service Station:		
21	Sprinkler System	33,933.71	
22	Third Avenue Garage:		
23	Gas fired heating system	2,851.43	

ELECTRIC CORPORATIONS
MANUFACTURED GAS CORPORATIONS
NATURAL GAS CORPORATIONS

CLASSES A, B, AND C

ORIGINAL

YEAR ENDED
DECEMBER 31, 1933

Report of The Brooklyn Union Gas Company

(Here show in full the exact corporate, firm, or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at 176 Remsen Street, Brooklyn, N.Y.

(Here give the location, including street and number of the respondent's main business office within the state)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1933

PUBLIC SERVICE COMMISSION

MAR 22 1934

Case No. 8181

Exhibit No. 1

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1934

105. CONTROL.

1. Show particulars called for concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year, show such members as of the end of the year.

2. Append hereto as a permanent part of the report a certified copy of the trustee agreement or other instrument under which any voting capital stock of the respondent is held if such documents are on file with the reporting corporation; if they are not on file, state that fact.

Name of member (a)	Address of member (city street No.) (b)	Common (c)	Preferred (d) (e)		Other securities with voting power (f) (g)		Line No.
			First	Second			
Aden Company, a Delaware Corporation	601 Koppers Building, Pittsburgh, Pa.	57 940					1
							2
							3
Burma Company, a Delaware Corporation	601 Koppers Building, Pittsburgh, Pa.	50 000					4
							5
							6
Gregory Company	650 Koppers Building, Pittsburgh, Pa.	50 000					7
							8
							9
Koppers Gas & Coke Co.	Koppers Building, Pittsburgh, Pa.	20 000					10
							11
							12
Sigler & Co.	c/o Central Hanover Bank & Trust Co., 70 Broadway, New York, N.Y.	10 503					13
							14
							15
							16
							17
The Home Insurance Co.	59 Maiden Lane, New York, N.Y.	9 000					18
							19
							20
E. A. Grant & Co.	c/o Central Hanover Bank & Trust Co., 70 Broadway, New York, N.Y.	8 640					21
							22
							23
							24
							25
Atwell & Co.	45 Wall Street New York, N.Y.	7 975					26
							27
							28
							29
							30
							31
							32
							33
Inquiry 2. No record or knowledge of any trustee or other agreement							
							34
							35
							36
							37

105 B. CONTROL BY OTHER CORPORATIONS.

1. List hereunder each holding of one per centum or more of the voting stock of the respondent by another corporation, and identify each such holding with a number in column (a), identical with the line No. of the same item under schedule 105 *ante*.

2. Show in columns (c) to (h) the requested information regarding officers and

directors of the member corporation and regarding the stockholders thereof with per centum or more of the voting stock if such information is available from the respondent. If data for columns (c) to (h) are not available, state that fact in respect of each such corporation.

Line No.	Reference No.	Name of member corporation	Names of officers, directors, and stockholders	Addresses of officers, directors, and stockholders (city street No.)	Title of position held	Total number of shares held in member corporation	
						Common (f)	Preferred (g)
31	1	Aden Company, a					
32		Delaware Corporation					
33	4	Burma Company, a					
34		Delaware Corporation					
35	7	Gregory Company	No data for columns (c) to (h) are available.				
36	10	Koppers Gas & Coke Co.					
37	13	Sigler & Co.					
38	18	The Home Insurance Co.					
39	21	E. A. Grant & Co.,					
40	26	Atwell & Co.,					
41							
42							
43							
44							
45							
46							
47							
48							
49							

419. Manufactured Gas Plants.

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24 hour capacity M. cu. ft. (c)	Number of ovens (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth and Varick Avenues,		
3		Brooklyn, N. Y.		2 batteries, each
4			20,000	containing 45 ovens;
5				total 90 ovens.
6				
7				
8				
9	(f)	(g)	(h)	Number of water gas sets (i)
10	Water gas plants:			
11	Citizens Works	433 Hoyt Street, Brooklyn, N.Y.	25,000	10
12	Williamsburgh Works	Foot of North 12th Street,	30,000	12
13		Brooklyn, N. Y.		
14	Metropolitan Works	53 Twelfth Street, Brooklyn, N.Y.	20,000	9
15	Greenpoint Works	Maspeth and Varick Avenues,	25,000	6
16		Brooklyn, N. Y.		
17				
18				
19			<u>100,000</u>	<u>37</u>
20				
21				
22				
23				
24				
25				
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28				
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39				

Page 408-a.

The Metropolitan Works was a standby plant during the calendar year 1933.

The Williamsburgh Works was operated only on December 30 and 31, 1933, and was a standby plant during the remainder of the year.

Extract from company's letter dated March 4, 1935.

420. Auxiliary Apparatus at Manufactured Gas Plants - Relief Holders

Line No.	Designation of plant or station (a)	Number Of units (b)	Maker or builder (c)	Year Installed (d)	Capacity (e)
1	Citizens Works	1	Bartlett-Hayward Company	1889	246,000
2	" "	1	" " "	1930	800,000
3	Williamsburgh Works	1	Jesse Starr Company	1863	315,000
4	Metropolitan Works	1	Hoey, Kennedy and Company	1872	320,000
5	Greenpoint Works	1	Bartlett-Hayward Company	1927	1,000,000
6					
7		<u>5</u>			
8					<u>2,681,000</u>
9					
10	Producer gas holders				
11	Greenpoint Works	1	Western Gas Construction Co.	1928	40,000
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					

420. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year Installed (d)	Capacity	
					Each (e)	Total (f)
1	Tar tanks:	1	Not known	1903	21,000	21,000
2	Citizens Works	1	"	1870	60,000	60,000
3	"	5	"	1889	12,000	60,000
4	"	1	"	1893	50,000	50,000
5	"	2	"	1898	27,000	54,000
6	"	3	"	1921	37,500	112,500
7	"	1	"	Unknown	4,500	4,500
8	"	5	"	1918	20,000	100,000
9	"	4	"	"	10,000	40,000
10	"	2	Bartlett-Hayward Co.	1933	118,000	236,000
11	"	1	"	"	300,000	300,000
12	"	1	"	"	830	830
13	"	1	"	"	283,000	283,000
14	"	1	"	1892	225,000	225,000
15	Williamsburgh Works	1	Logan Iron Works	"	6,400	12,800
16	"	2	C. L. Rowland	1909	43,000	43,000
17	"	1	Bartlett-Hayward Co.	"	30,900	30,900
18	"	1	"	1910	5,700	11,400
19	"	2	Not known	"	22,700	22,700
20	"	1	"	"	11,400	11,400
21	"	1	"	"	1,550	1,550
22	"	1	Bartlett-Hayward Co.	1911	21,800	21,800
23	"	1	C. Cunningham & Sons	1892	158,000	158,000
24	"	1	C. L. Rowland	1903	24,179	24,179
25	Metropolitan	1	C. Cunningham & Sons	1900	3,384	3,384
26	"	1	Not known	1892	129,548	129,548
27	"	1	Logan Iron Works	1911	105,469	105,469
28	"	1	Bartlett-Hayward Co.	1913	900	900
29	"	1	Not known	1921	44,064	132,192
30	"	3	Bartlett-Hayward Co.	"	22,500	112,500
31	"	5	"	"	31,680	31,680
32	"	1	"	"	46,998	281,988
33	Greenpoint	6	"	1927	405,892	405,892
34	"	1	"	"	269,000	538,000
35	"	2	"	"	81,900	81,900
36	"	1	"	1933	300,000	300,000
37	"	1	"	1928	550,000	550,000
38	"	1	The Koppers Construction Co.	"	"	"
39	"	1	"	"	"	"
40	"	1	"	"	"	"
41	"	1	"	"	"	"
42	"	1	"	"	"	"
43	"	1	"	"	"	"
44	"	1	"	"	"	"
45	"	1	"	"	"	"
46	"	1	"	"	"	"
47	"	1	"	"	"	"
48	"	1	"	"	"	"
49	"	1	"	"	"	"
50	"	1	"	"	"	"
51	"	1	"	"	"	"
52	"	1	"	"	"	"
53	"	1	"	"	"	"
54	"	1	"	"	"	"
55	"	1	"	"	"	"
56	"	1	"	"	"	"

Note:
Withdrawn from service
since Dec. 31, 1932:

Citizens Works	2	Not known	Unknown	2,500	5,000
"	2	"	"	500	1,000
"	1	"	1918	5,400	5,400

66

4,556,012

430. Auxiliary apparatus at manufacturing gas plants - Tanks (continued)

Line No.	(a) Designation of plant or station	(b) Number of units	(c) Maker or builder	(d) Year Installed	(e) Gross Capacity	(f) Total
----------	---	---------------------------	-------------------------	--------------------------	--------------------------	--------------

1	Oil tanks:					
2						
3	Citizens Works	1	Not known	1909	352,000	352,000
4	"	1	"	1919	441,000	441,000
5	"	1	Bartlett-Hayward Co.	1919	666,000	666,000
6	Williamburgh Works	1	Not known	1894	341,000	341,000
7	"	1	C. Cunningham	1905	262,000	262,000
8	"	1	Bartlett-Hayward Co.	1919	675,000	675,000
9	"	5	"	1921	22,500	112,500
10	Metropolitan	1	Logan Iron Works	1903	230,507	230,507
11	"	1	Not known	1904	151,139	151,139
12	"	1	Bartlett-Hayward Co.	1911	513,962	513,962
13	Greenpoint	2	"	1927	1,038,564	2,117,128
14	"	2	Lancaster Iron Works	1932	4,800	9,600
15						
16						
17						
18						
19	Acetone storage tanks:					
20						
21	Greenpoint Works	2	Bartlett-Hayward Co.	1927	45,800	91,600
22						
23						
24	Acid storage tanks:					
25						
26	Greenpoint Works	5	The Koppers Construction Co.	1928	20,000	100,000
27						
28						
29	Ammonia liquor storage tanks:					
30						
31	Greenpoint Works	1	The Koppers Construction Co.	1928	260,000	260,000
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
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5,310,636

508. PRODUCTION EXPENSES AND GAS MANUFACTURE BY STATIONS

1. Show hereunder the various items of expense incurred in the manufacture of gas at each of the stations operated, and the amount of gas produced at each station, during any portion of the year, and entered in the right hand column the total cost of all stations.
 2. Companies with annual operating revenues below \$50,000 in which operate one manufacturing plant only may omit details of operating costs location and transfer entries hereunder to lines 36 to 45, inclusive, with reference to the appropriate schedule of operating expenses for details of operating costs.
 3. All credit entries in this schedule should be made in red ink.

ELECTRIC, GAS, AND NATURAL GAS CONSUMPTION

2. Companies with annual operating revenues below \$100,000,000	Designation of station	Citizens Works		Williamsburgh Works		Stamford Works		Steady State		Holder Stations		Total	
Line No.	Item	(a)		(b)		(c)		(d)		(e)		(f)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
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1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5									

510. Production Expenses and Gas Manufactured, by Stations
Greenpoint Works - Coke Oven Gas Plant

Line No.	Item (a)	\$ (b)	\$ (c)	Total production expense- coke oven gas \$ (d)
1	Gross cost:			
2	Production labor			397,951.71
3	Production materials:			
4	Materials shown in Schedule 515		3,730,436.18	
5	Other production materials		<u>252,354.95</u>	3,982,791.13
6	Maintenance costs			<u>224,027.04</u>
7				
8	Total gross cost			4,604,769.88
9				
10	Residuals produced:			
11	Coke		3,222,558.52	
12	Oven gas tar		<u>229,048.03</u>	
13	Sulphate of ammonia		<u>148,162.04</u>	
14				
15	Total residuals produced		3,599,768.59	
16				
17	Residuals expense:			
18	Coke	78,274.97		
19	*Other residuals	<u>108,691.88</u>		
20				
21	Total residuals expense		<u>186,966.85</u>	
22				
23	Net credit for residuals			3,412,801.74
24				
25	Duplicate production charges - credit			<u>255.48</u>
26				
27	Net cost of coke oven gas made			<u>1,191,712.66</u>
28				
29	Coke oven gas produced - M. cu.ft.			8,283,172
30	Maximum 24 hour make - M. cu.ft. (with date)		March 4	23,774
31	Average daily make - M. cu.ft.			22,694
32				
33				
34	Total gas produced-water gas and coke oven gas - M. cu.ft.			21,438,976
35	Maximum 24 hour make - M. cu.ft. (with date)		December 29,	89,420
36	Average daily make			58,737
37				
38				
39	*Materials shown in Schedule 515		57,689.24	
40	Other residuals expense		<u>51,002.64</u>	
41	Total		<u>108,691.88</u>	
42				
43				
44	Footnotes for page 508:			
45				
46	(1) See insert page 508-a for figures relating to coke oven gas and grand total production. All of the figures in column (g) relate to water gas.			
47				
48				
49	(2) Includes general production expenses:			
50	Works superintendence		42,445.90	
51	Miscellaneous works expense		<u>2,772.65</u>	
52	Total		<u>45,218.55</u>	
53				
54	(3) Includes inventory adjustment			
55				
56	(4) This item can not be allocated to any of the preceding columns			

Notes on : Schedule 511. Station Records and Quality of Out-put - Gas
and " 512 Residuals

Line No.

1 Line 9 :

2 (1) Water gas tar

3 (2) Oven gas tar

5 Line 17 :

6 (3) The equivalent solid boiler fuel is calculated on the ratio of evaporation of solid
7 to liquid fired boilers. These figures for the year 1933 were as follows:

	Pounds per M			Ratio
	Liquid boiler fuel	Solid boiler fuel	Equivalent solid boiler fuel	
Works	(a)	(b)	(c)	(d)
Citizens	3.27	4.23	10.05	1.78
Williamsburgh	-	-	-	-
Greenpoint	1.00	5.82	7.22	1.40
Average	1.95	5.24	8.34	1.59

$$a \times d + b = c$$

Note: The weight of a gallon of tar is 9.4 pounds.

(4) This computation is omitted because this plant operated only 2 days during the year.

25 Line 19 :

(5) Grate surface of one generator multiplied by average number of generators in use.

28 Line 20 :

(6) The basis of the figures on this line is as follows:

Works	Gas made	Total	Average Make	Grate area	Hourly Make
	(M. cu. ft.)	hours running	per running hour (cu. ft.)	per machine (sq. ft.)	per sq. ft. of grate area (cu. ft.)
Citizens	5,461,022	24,009	227,457	73	3,116
Williamsburgh	3,829	25	153,160	66	2,321
Greenpoint	7,890,953	24,512	313,763	68	4,614
Average	13,155,804	48,546	270,997	69	3,927

39 Line 21 :

(7) Includes inventory adjustment.

42 Line 23 :

(8) It is not feasible to report this figure for the reason that the Greenpoint Works used both gas oil and refinery gas for enrichment purposes, both of which enriching agents produce tar.

47 Line 33 :

(9) Specific gravity is not reported because this plant operated only 2 days during the year.

50 Line 42 :

(10) Includes 249.00 net tons purchased.

(11) " 19.65 " " "

54 Line 47 :

(12) Residuals expense on oven gas tar and sulphate cannot be separated.

(13) See opposite insert.

Submitted by F. & G. Accounting Division
Date: 1/29/34

511. STATION RECORDS AND QUALITY OF OUT-PUT - GAS.

Continuing the same columnar arrangement as in schedule 510, show the requested information regarding production of gas in each station. Each manufacturer and natural gas company should give information requested, lines 39 to 43, inclusive.

Line	Description of station	Item	Citizens Works		Williamsburgh Works		Greenpoint Works		Greenpoint Works		Stand-by		Totals
			(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	
1	Gas coal: Bituminous carbonized (short tons)												
2	Yield, gas per lb. coal (cu. ft.)												
3	Average number residuals in action												
4	Average charge per short ton (lbs.)												
5	Average period of carbonization (hrs.)												
6	Average make per short ton per day (cu. ft.)												
7	Coke: Short tons produced												
8	Coke: Ratio per short ton of coal carb. (0.7 ÷ 1.1)												
9	Tar: Gallons produced												
10	Tar: Gallons per short ton of coal carb. (0.9 ÷ 1.1)												
11	Fuel under ovens Coke (short tons)												
12	Coal (short tons)												
13	Lbs. fuel per ton coal carbonized (0.11 + 12 ÷ 1.1)												
14	Boiler fuel: Average number boilers												
15	Solid fuel (short tons)												
16	Tar used (gals.)												
17	Lbs. fuel (solid or liquid) per M. made												
18	Generators: Average number in use												
19	Total square feet of grate surface												
20	Make (monthly) per sq. ft. of grate surface (cu. ft.)												
21	Generator fuel per M. made (lbs.)												
22	Gas oil: Gallons used												
23	Tar yield in % of gas. (0.9 ÷ 1.22)												
24	Gallons per M. made												
25	Average cost per gallon, cents and hundredths												
26	Gas purified: Bu. oxide												
27	Cu. ft. gas gas per bu.												
28	Cu. ft. water gas per bu.												
29	Cu. ft. mixed gas per bu.												
30	Heating value of gas: B. t. u. maximum day												
31	Minimum day												
32	Average for year												
33	Specific gravity (to nearest hundredth of a per cent.)												
512. RESIDUALS.													
Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.													
34	Item	Coke, tons	Oven gas tar, gals.		Water gas tar, gals.	Ammoniacal liquor, gals.		Carbon, lbs.	Drip oil, gals.		Net (bbl.) tons		Other residuals (specify)
35	On hand at beginning of year	82	693	45	332	000		1	343	683			
36	Made during year	552	510	50	6	339	278	3	855	536			
37	Used during year	271	765	28	6	339	278	2	772	354			
38	Sold during year	284	472	35	6	365	278	1	801	352			
39	On hand at end of year	78	966	32		306	000		625	513			
40	Credits on account of residuals produced*	222	558	52		229	048	03	100	747	89		
41	Residuals expense	78	274	97									
42	Receipts from sales	1	666	281	13	231	618	11	55	303	06		
43	Average selling price		5.8574				0364			0307			

1. *Show hereunder a summary of gas produced and purchased, and sold or otherwise disposed of.* If systems are not fully interconnected, attach a statement showing for each system (a) the volume of gas produced and sold or otherwise disposed of, (b) the volume of gas purchased, and (c) the volume of gas sold or otherwise disposed of.

7. State all quantities of use in terms of M. S. U.

One sold or otherwise disposed of, by you.

Line No.	Kind of gas	Gas produced and purchased, M cu ft.					Gas sold or otherwise disposed of, M cu ft.																		
		Item (a)	(b)	(c)	(d)	Total	Item (f)	(g)	(h)	(i)	Total														
1	On hand at beginning of year																								
2	Produced during year		13155604	8883172		51501																			
3	Purchased from associated companies					21456976																			
4	Purchased from other than associated companies					-																			
5	Received under agency agreements					-																			
6	Transferred from associated companies					-																			
7	Total available for distribution					21490477																			
8	Maximum hourly send-out to M cu ft.					79324																			
9	Date and hour of its occurrence																								
10	Maximum daily send-out, M cu ft.	January	71,583	February	79,352	March	78,355	April	67,415	May	68,399	June	64,852	July	56,107	August	55,231	September	65,879	October	66,573	November	70,249	December	64,111

519, GAS-MAKING MATERIALS,

Show the particulars indicated concerning the several kinds of fuel and other materials used during the year. Difference between the figures here given and the operating expense statement must be fully explained.

522. Important Changes During the Year.

Line No.	Inquiry No.	
1	1.	Various minor improvements.
2		
3	2.	Complete equipment for the utilization of heavy oil was installed at the Citizens Works
4		during the year. This installation included a new separator, two wet tar storage tanks
5		four tar dehydrators and the necessary auxiliary equipment.
6		
7		A new 300,000 gallon tar storage tank was installed at the Citizens Works during the
8		year.
9		
10		One new 4-compartment steel purifier was installed at the Citizens Works during the
11		year.
12		
13		Two new naphthalene scrubbers were installed at the Citizens Works during the year.
14		
15		Three 600 H.P. Babcock & Wilcox boilers at the Citizens Works were completely remodeled
16		during the year for the utilization of heavy oil tar.
17		
18		Three Babcock & Wilcox waste heat boilers were withdrawn from the Citizens Works during
19		the year.
20		
21		Complete equipment for the reception and utilization of heavy oil tar was installed at
22		the Greengrove Works during the year. This installation included the erection of a
23		300,000 gallon tar storage tank, tar heaters, pumps and the necessary tar and steam
24		lines.
25		
26		Two gas engines, two compressors and one station meter were installed at the Newtown
27		Station.
28		
29	3.	No transmission lines were in process of construction at the end of the year.
30		There were various minor extensions to the distribution lines in process of construction
31		at the end of the year.
32		
33	4.	.29 miles of transmission line and 8.94 miles of distribution line were put into operation
34		during the year. There were no changes in the total number of miles of transmission
35		and distribution line resulting from conversion.
36		
37	5.	None
38		
39	6.	604 shares of common stock were issued in exchange for \$30,300.00 of Ten Year 5% Convertible Debenture Bonds dated January 1, 1936, F.S.C. Case No. 2177.
40		
41		
42	7.	\$30,300.00 of Ten Year 5% Convertible Debenture Bonds dated January 1, 1936, were
43		converted into common stock.
44		
45	8.	U.S. Treasury 1½% short term notes in the amount of \$1,000,000 were purchased
46		August 4, 1935, and exchanged on August 15 for a like amount of U.S. Treasury 5½%
47		Eight Year Bonds.
48		8-
49	9.	No change
50		
51	10.	3 % Bonds of the State of New York of a par value of
52		\$22,000 were purchased during the year and deposited
53		with the State Industrial Commission as additional
54	11.	security for the payment of compensation awards.
55		
56	12.	See insert pages 517b and c

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See: 12-e Important Units of Plant and Equipment Installed During the Year

Line No.	Location and description	Capacity (each)	Book value
1	Citizens Works:		
2	Alterations to generator sets for utilization of heavy oil		196,642.26
3	3 secondary oil heaters		10,890.61
4	Additions to oil storage tanks		3,324.15
5	2 primary oil heaters		13,394.37
6	3 oil pumps		6,253.58
7	Heavy oil pump house		15,507.02
8	1 tar separator tank		20,073.94
9	2 wet tar storage tanks	283,000 gals.	21,673.18
10	4 tar dehydrator stills	118,000 "	23,970.38
11	4 condensers		4,214.57
12	2 naphthalene scrubbers		41,485.25
13	Additions to boiler fuel storage tanks		9,724.32
14	Additions to Kennedy automatic runners		12,112.74
15	1 collecting tank	830 "	227.79
16	1 dry tar storage tank	300,000 "	20,849.56
17	Changes in boilers, for utilization of heavy oil		64,609.64
18	Dry tar pump house		4,378.28
19	Naphthalene scrubber pump room		3,492.44
20	Auxiliary equipment for utilization of heavy oil		96,634.08
21	Additional expenditures - re heavy oil		257,721.32
22	1 steel purifier		210,310.62
23	Williamsburgh Works:		
24	1 recording calorimeter		1,485.00
25	Greenpoint Works:		
26	1 tar storage tank	300,000 "	19,828.63
27	Auxiliary equipment for utilization of heavy oil tar		31,823.88
28	Refracting roof on domestic screening station		1,277.13
29	Refracting roof on metallurgical screening station		2,210.89
30	Concrete pad and walls		1,367.86
31	7 weight hoppers		15,715.77
32	Jigger screen for domestic screening station		2,040.20
33	Impeller suction covers for exhausters		3,794.22
34	Wythe Avenue Station:		
35	Speed governors on 3 steam engines		2,077.00
36	Twelfth Street Station		
37	Speed governors on 3 steam engines		2,038.00
38	West 4th Avenue Station:		
39	4" tar line		1,476.22
40	Newtown Station:		
41	2 gas engines	900 H.P.	86,549.28
42	2 compressors	225,000 cu.ft.	32,153.70
43	1 fuel meter	60,000 "	843.75
44	Extension of exhauster house		51,943.73
45	Electric power feeders		2,811.21
46	Concrete retaining wall and fill		2,830.16
47	Concrete ash bin		2,081.60
48	Heating unit		1,817.00
49	Auxiliary equipment		35,189.33
50	Additional expenditures		26,388.14
51	Gas Service Station:		
52	Sprinkler system		6,405.85

ELECTRIC CORPORATIONS
ARTIFICIAL GAS CORPORATIONS } CLASSES A, B, AND C
NATURAL GAS CORPORATIONS }

ORIGINAL

YEAR ENDED
DECEMBER 31, 1934

Report of

The Brooklyn Union Gas Company.

(Give in full the exact corporate, firm, or individual name of the respondent, having regard to the distinction between the words COMPANY and CORPORATION)

Located at

176 Remsen Street, Brooklyn, N.Y.

(Here give the location, including street and number, of the respondent's main business office within the state)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1934

Report for the Year Ended December 31, 1934

106. CONTROL.

1. Show the requested information concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year, show such members as of the end of the year.

2. Append hereto as a permanent part of the report a certified copy of the transfer agreement or other instrument under which any voting capital stock of the respondent is held if such documents are on file with the reporting corporation; if they are not on file, state that fact.

Name of member	Address of member (city street No.)	Common (a)	Number of voting shares held (State) Dec. 31, 1934			
			Preferred		Other securities with voting power	
			First (a)	Second (a)	(f)	(g)
Burma Company, a Delaware Corporation	601 Koppers Building, Pittsburgh, Pa.	70 000				
Aden Company, a Delaware Corporation	601 Koppers Building, Pittsburgh, Pa.	57 240				
Gregory Company	650 Koppers Building, Pittsburgh, Pa.	50 000				
Sigler & Co.	c/o Central Hanover Bank & Trust Co., 70 Broadway, New York, N. Y.	10 038				
E. A. Grant & Co.	c/o Central Hanover Bank & Trust Co., 70 Broadway, New York, N. Y.	8 640				
Jesup and Lamont	26 Broadway, New York, N. Y.	7 495				
Atwell and Company	45 Wall Street, New York, N. Y.	7 448				
Inquiry 2. No record or knowledge of any trustee or other agreement.						

105B. CONTROL BY OTHER CORPORATIONS.

1. List hereunder each holding of one per centum or more of the voting stock of the respondent by another corporation, and identify each such holding with a number in column (a), identical with the line No. of the same item under schedule 105 *ante*.
2. Show in columns (c) to (h) the requested information regarding officers and directors of the member corporation and regarding the stockholders thereof who hold one per centum or more of the voting stock if such information is available from the records of the respondent. If data for columns (c) to (h) are not available, state that fact separately in respect of each such corporation.

Line No.	Reference No. (a)	Name of member corporation (b)	Names of officers, directors, and stockholders (c)	Addresses of officers, directors, and stockholders (city, street, No.) (d)	Title of position held (e)	Total number of shares held in member corporation Common (f) Preferred (g)	Number of voting shares held in member corporation (h)
31	1	Burma Company, a	No data for columns (c) to (h) are available				
32		Delaware Corporation					
33	4	Aden Company, a					
34		Delaware Corporation		do			
35	7	Gregory Company		do			
36	10	Sigler & Co.		do			
37	15	E. A. Grant & Co.		do			
38	20	Jesup & Lamont		do			
39	23	Atwell & Co.		do			
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							

334. MANAGEMENT, ENGINEERING, OR PURCHASING SERVICES.

1. Show hereunder a complete analysis of each contract in effect at any time during the year with another corporation, partnership, individual, or organization of any form whatever, whereby the respondent received advisory, management, engineering, purchasing, or other type of service of a continuous nature.
2. In column (a), a letter or numeral should be inserted for each contract or subdivision thereof, and the same designation should be used in the other sections of the schedule to identify the distribution of accruals with the governing contract.
3. Entries in columns (g) and (h) should reflect the entire amount payable for the year, and a separate line should be used to show the amount accruing for each class of service.

4. The second portion of the schedule should be used to show distribution of amounts applicable to the portion of the year prior to the adoption of the Uniform Systems of Accounts prescribed by orders of November 23, 1933, and the date in the heading should be completed by inserting the day preceding such adoption.
5. The third portion of the schedule should be used to show corresponding information applicable to the period subsequent to the adoption of the Uniform Systems of Accounts prescribed by orders of November 23, 1933, and the date in the heading of the schedule completed.
6. In submitting data for columns (k) to (v) and columns (kk) to (vv), a separate line is to be used for each operating department (electric, artificial gas, natural gas, steam, etc.), the name of which is to be given in column (j).

Line No.	Designation of contract (a)	Name of company giving service (b)	Date of contract (c)	Date of expiration (d)	Character of service to be given (e)	Basis of payments under contract (f)	Total for year payable under contract			
							As compensation for services (g)		As reimbursement of expenses (h)	
1						Coke Oven Plant				
2						No contract. Paid Koppers Gas and Coke Company \$64,166.50 during 1934, covering inspections of plant and services in connection with operations, which included reimbursement of the salary of an operator				
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14						* Formerly Koppers Construction Company.				
15										
16										
Totals										

January 1, 1934, to December 31, 1934.

Line No.	Designation of contract (i)	Department charged (j)	Fixed capital* (k)	Materials and supplies* (l)	Merchandise and jobbing* (m)	Operating expenses*							Other accounts	
						Production (n)	Transmission (o)	Distribution (p)	Utilization (q)	Commercial (r)	New business (s)	General and miscellaneous (t)	Acct. No. (u)	Amount* (v)
21						64,024.83								
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
Totals						64,024.83								

Graphical Corrections by P. S. C. Accounting Division
Authorized by order dated 1/3/36 - JLC

* To nearest dollar.

10,741.87

834. MANAGEMENT, ENGINEERING, OR PURCHASING SERVICES.

1. Show hereunder a complete analysis of each contract in effect at any time during the year with another corporation, partnership, individual, or organization of any form whatever, whereby the respondent received advisory, management, engineering, purchasing, or other type of service of a continuous nature.

2. In column (a), a letter or numeral should be inserted for each contract or subdivision thereof, and the same designation should be used in the other sections of the schedule to identify the distribution of accruals with the governing contract.

3. Entries in columns (g) and (h) should reflect the entire amount payable for the year, and a separate line should be used to show the amount accruing for each class of service.

4. The second portion of the schedule should be used to show distribution of amounts applicable to the portion of the year prior to the adoption of the Uniform Systems of Accounts prescribed by orders of November 23, 1933, and the date in the heading should be completed by inserting the day preceding such adoption.

5. The third portion of the schedule should be used to show corresponding information applicable to the period subsequent to the adoption of the Uniform Systems of Accounts prescribed by orders of November 23, 1933, and the date in the heading of the schedule completed.

6. In submitting data for columns (k) to (v) and columns (kk) to (vv), a separate line is to be used for each operating department (electric, artificial gas, natural gas, steam, etc.), the name of which is to be given in column (j) or (jj).

Line No.	Designation of contract	Name of company giving service	Date of contract	Date of expiration	Character of service to be given	Basis of payments under contract	Total for year payable under contract			
							As compensation for services		As reimbursement of expenses	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)
1										
2										
3										
4										
5										
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11										
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16										
Totals										

Coke Oven Plant
No contract. Paid Koppers Gas and Coke Company* \$64,166.50 during 1934, covering inspections of plant and services in connection with operations, which included reimbursement of the salary of an operator

* Formerly Koppers Construction Company.

January 1, 1934, to December 31, 1934.

Line No.	Designation of contract	Department charged	Fixed capital*	Materials and supplies*	Merchandise and jobbing*	Operating expenses*							Other accounts																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
						Production	Transmission	Distribution	Utilization	Commercial	New business	General and miscellaneous	Acct. No.	Amount*																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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337. Charges by Affiliated Companies *
January 1, 1934 to December 31, 1934

Line	Name of affiliate (a)	Nature of items (b)	Design- nation of contract (c)	Total charges to respondent \$ (d)	Artificial gas dept. \$ (e)	Amounts charged to:	
						Acct. No. (f)	Clearing or other accts. Amount (g)
1	The Bartlett Hayward Company	Labor and material	None	59,810.52	3,020.93	101	55,403.04
2						121	522.50
3						123	402.80
4							
5	Koppers Construction Company	"	"	18,419.57	3,210.50	123	14,409.07
6							
7	Koppers Coal Company, Inc.	Coal	"	3,072,977.00		123	3,072,977.00
8							
9	Koppers Gas and Coke Company	Labor and material	"	163,957.83	190,010.77	123	10,305.50
10						145	88,204.83
11						205	1,733.84
12						304	1,133.03
13						305	1,035.69
14						313	302.50
15							
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418. Artificial Gas Plants

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24 hour capacity M cu. ft. (c)	Number of ovens (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Waspeth and Varick Avenues, Brooklyn, N. Y.	20,000	2 batteries, each containing 45 ovens; total 90 ovens.
3				
4				
5				
6				
7				
8				
9	(f)	(g)	(h)	Number of water gas sets (i)
10	Water gas plants:			
11	Citizens Works	433 Hoyt Street, Brooklyn, N.Y.	*30,000	10
12	Williamsburgh Works	Foot of North 12th Street, Brooklyn, N.Y.	30,000	12
13				
14	Metropolitan Works	53 Twelfth Street, Brooklyn, N.Y.	20,000	9
15	Greenpoint Works	Waspeth and Varick Avenues, Brooklyn, N.Y.	25,000	6
16				
17				
18				
19				
20			<u>105,000</u>	<u>37</u>
21				
22				
23				
24				
25				
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32				
33				
34				

✓ Operated 51 days.

✓ Steadily plant during active year.

*The increase of 5,000 M cu.ft. over 1933 in the rated 24 hour capacity of the Citizens Works is due to the utilization of heavy oil and to the installation of additional auxiliary apparatus.

419. Auxiliary Apparatus at Artificial Gas Plants - Details

No. of unit	Description of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Two heaters	1	Not known	1903	22,000	22,000
2	Phillips Works	1	"	1900	60,000	60,000
3	"	5	"	1898	12,000	60,000
4	"	1	"	1893	50,000	50,000
5	"	2	"	1898	27,000	54,000
6	"	3	"	1891	37,500	112,500
7	"	5	"	1902	20,000	100,000
8	"	4	"	"	10,000	40,000
9	"	2	The Bartlett Hayward Co.	1908	112,000	224,000
10	"	1	"	"	300,000	300,000
11	"	1	"	"	250	250
12	"	1	"	"	250	250
13	"	1	"	"	250,000	250,000
14	Williamsburgh Works	1	Large Iron Works C. L. Rowland	1892	225,000	225,000
15	"	2	"	"	4,400	12,800
16	"	1	The Bartlett Hayward Co.	1909	48,000	48,000
17	"	1	"	"	30,900	30,900
18	"	2	Not known	1900	5,700	11,400
19	"	1	"	"	22,700	22,700
20	"	1	"	"	11,400	11,400
21	"	1	The Bartlett Hayward Co.	1901	1,550	1,550
22	"	1	C. Cunningham & Sons	1882	20,800	20,800
23	"	1	C. L. Rowland	1892	158,000	158,000
24	Westinghouse	1	C. Cunningham & Sons	1909	24,179	24,179
25	"	1	Not known	1900	1,384	1,384
26	"	1	Large Iron Works	1892	129,542	129,542
27	"	1	The Bartlett Hayward Co.	1901	105,469	105,469
28	"	1	Not known	1902	900	900
29	"	3	The Bartlett Hayward Co.	1891	44,044	132,132
30	"	5	"	"	22,500	112,500
31	"	1	"	"	10,580	10,580
32	Greenpoint	6	"	1897	48,992	293,992
33	"	1	"	"	40,832	40,832
34	"	2	"	"	263,000	526,000
35	"	1	"	"	30,900	30,900
36	"	1	"	"	19,000	19,000
37	"	1	The Rogers Construction Co.	1923	550,000	550,000
38						
39						
40						
41						
42	Not:					
43						
44	Williamsburgh Works					
45	same as No. 10.					
46						
47	Williamsburgh Works	1	Not known	Unknown	4,500	4,500
48						
49						
50						
51						
52						
53						
54						

4,550,000

513. STATION RECORDS AND QUALITY OF OUTPUT — GAS.

Continuing the same columnar arrangement as in schedule 511, show the requested information regarding production of gas in each station. Each manufactured and natural gas company should give information requested, lines 30 to 33, inclusive.

L. No.	Designation of station	Item (a)	Citizens Works (Water gas plant)	Williamsburgh Works (Water gas plant)	Greenpoint Works (Water gas plant)	Greenpoint Works (Coke oven plant)	Standby (n)	Totals (g)
1	Gas coal: Bituminous carbonized (short tons)					756 848 78		756 848 78
2	Yield, gas per lb. coal (cu. ft.)					5 72		5 72
3	Average number retorts or ovens in action					90		90
4	Average charge per retort or oven (lbs.)					26 820		26 820
5	Average period of carbonization (hrs.)					13 86		13 86
6	Average make per retort or oven per day (cu. ft.)					263 608		263 608
7	Coke: Short tons produced					585 358 00		585 358 00
8	Coke: Ratio per short ton of coal carb. (1.7 ÷ 1.1)					77 34		77 34
9	Oven gas tar: Gallons produced					6 374 463		6 374 463
10	Oven gas tar: Gallons per short ton of coal carb. (1.9 ÷ 1.1)					8 42		8 42
11	Producer gas fuel: Fuel under retorts: Coke (short tons)					98 297 00		98 297 00
12	Coal (short tons)					-		-
13	Producer gas or returned gas — M cu. ft.					-		-
14	Boiler fuel: Average number boilers		2	2	5	6	3	18
15	Solid fuel (short tons)		8 544 87	2 001 09	16 188 65			26 734 61
16	Tar or oil used (gals.)		2 483 299	87 986	905 080			3 476 365
17	Lbs. fuel (solid or liquid) per M cu. ft. made (1)		7 36	(2) 25 71	7 30			7 57
18	Generators: Average number in use		3	2	3			8
19	Total square feet of grate surface (3)		219	132	204			555
20	Make (hourly) per sq. ft. of grate surface (cu. ft.) (4)		3 682	(2) 2 715	4 767			4 259
21	Generator fuel per M made (lbs.)		17 21	(2) 33 83	18 04			17 88
22	Gas oil: Gallons used for carburetting blue water gas		23 789 029	537 203	5 824 002			30 150 234
23	Water gas tar yield in % of gals. of gas oil		20 84	13 37	(5) -			-
24	Gallons per M made		4 13	3 09	84			2 34
25	Average cost per gallon, cents and hundredths		3 24	3 43	3 67			3 33
26	Gas purified: Bu. oxide		167 579	-	72 100	188 825		428 504
27	Cu. ft. oven gas per bu.					45 860		45 860
28	Cu. ft. water gas per bu.		34 348	-	96 113			53 652
29	Cu. ft. mixed gas per bu.							50 218
30	Heating value of gas: B. t. u. maximum day		555	556	544	572		-
31	Minimum day		542	542	471	565		-
32	Average for year		547	547	512	570		545
33	Specific gravity (to nearest hundredth of a per cent.)		66	63	74	39		-

514. RESIDUALS.

Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.

L. No.	Item (a)	Coke, tons (b)	Oven gas tar, gals. (c)	Water gas tar, gals. (d)	Ammoniacal liquor, gals. (e)	Carbon, lbs. (f)	Drip oil, gals. (g)	Other residuals (specify) (h)	(i)	(j)
41	On hand at beginning of year	78 966 32	306 000	625 513			36 934	701 15		
42	Made during year (6)	585 435 00	6 374 463	6 062 024			493 938	8 587 25		
43	Used during year (7)	246 418 15	-	3 742 064			9 506	-		
44	Sold during year	324 268 13	6 580 463	2 252 171			433 507	7 149 62		
45	On hand at end of year	93 715 04	100 000	693 302			87 859	2 138 78		
46	Credits on account of residuals produced*	\$ 3 910 788	\$ 240 146 13	\$ 196 137 69	\$	c.	\$	c.	33109 57	186560 34
47	Residuals expense	91 146 17	(8) -	-					119880 29	(8)
48	Receipts from sales	2 090 437 28	247 106 07	72 571 30			22679 90	148561 34		
49	Average selling price	6.4466	.0376	.0322			.052317	20.7789		

515. SUMMARY OF PRODUCTION AND SALES — GAS.

1. Show hereunder a summary of gas produced and purchased; and sold or otherwise disposed of. If systems are not fully interconnected, append a statement giving for each system the information called for by captions in column (a) for lines 8 to 10.

2. State all quantities of gas in terms of M cu.ft.

Line No.	Kind of gas	Gas produced and purchased, M cu.ft.					Kind of gas	Gas sold or otherwise disposed of, M cu.ft.					
		Water gas		Coke oven gas	Total	Item (f)		(g)	(h)	(i)	Total		
		(b)	(c)	(d)								(e)	
1	On hand at beginning of year					60 961	Sold to affiliated companies					-	
2	Produced during year	12 859 278	8 659 534			21518 812	Other sales					20481 201	
3	Purchased from affiliated companies					-	Transferred to affiliated companies					-	
4	Purchased from other than affiliated companies					-	Delivered under agency agreements					-	
5	Received under agency agreements					-	Supplied without direct charge					-	
6	Transferred from affiliated companies					-	Used by respondent					94 689	
7	Total available for distribution					21579 773	Lost and unaccounted for					942 558	
8	Maximum hourly send-out in M cu.ft.					8 287	On hand at end of year					61 325	
9	Date and hour of its occurrence	November 29, 1934-12 Noon to 1 P.M.					Totals					21579 773	
10	Maximum daily send-out, M cu. ft.	January	February	March	April	May	June	July	August	September	October	November	December
		82 634	102 424	77 050	70 966	68 329	62 484	51 745	58 037	67 499	70 320	67 387	72 002

516. SALES BY MUNICIPALITIES — ARTIFICIAL OR NATURAL GAS.

1. Show the requested information concerning each city, village, or town in which respondent rendered service at any time during the year. If service is restricted to a portion of a city, designate the boroughs or distribution districts covered by respondent's operations.

3. This analysis of sales should cover the entire year 1934, and explanation should be attached indicating the extent if any, to which items herein were determined by estimate or apportionment as provided in the order of January 30, 1934, in case 7843.

2. If two or more municipalities are treated as a unit, list in an attached memorandum the names of the several municipalities so grouped, with reference to the date of the controlling order of the Public Service Commission.

4. Revenues may be shown to the nearest dollar only.

Line No.	Designation of municipality †		Number of active consumers* (b)	Sales in M cu. ft. (c)	Revenue during year (d)	Number of active consumers* (e)	Sales in M cu. ft. (f)	Revenue during year (g)	Number of active consumers* (h)	Sales in M cu. ft. (i)	Revenue during year (j)
	Item (a)										
21	601 Residential sales	See insert pages 511 a and 511 b									
22	602 Commercial sales										
23	603 Industrial sales										
24	604 Public street lighting										
25	605 Other sales to public authorities										
26	606 Sales to other distributors										
27	Totals										
28											
29	Designation of municipality †										
30	601 Residential sales										
31	602 Commercial sales										
32	603 Industrial sales										
33	604 Public street lighting										
34	605 Other sales to public authorities										
35	606 Sales to other distributors										
36	Totals										
37											
38	Designation of municipality †										
39	601 Residential sales									Totals	
40	602 Commercial sales										
41	603 Industrial sales										
42	604 Public street lighting										
43	605 Other sales to public authorities										
44	606 Sales to other distributors										
45	Totals										

2034. Important Changes During the Year

Line No.

Summary

100

1. Items

2. Concrete roads were installed at the Citizens Hotel to facilitate transportation around the plant.

3. New laboratory was installed and completely equipped on the second floor of the Machine Shop Building at the Citizens Hotel.

4. Six best collectors for the removal of dust from the generator stacks were installed at the Citizens Hotel.

5. One No. 3 steam hydraulic elevator serving the 5th floor generator house at the Citizens Hotel was removed.

6. All chemical equipment installed on the top floor of the Office Building at the Williamson Hotel was transferred to the new laboratory at the Citizens Hotel.

7. Two Western Gas Construction Company mechanical stores were removed from generators B and No. 3 at the Greenpoint Hotel.

8. Nine loading cranes in the domestic screening station at the Greenpoint Hotel were removed during the year and were replaced by seven new A. J. Rogers (installed in 1933).

9. No transmission lines were in process of construction at the end of the year. There were various minor extensions to the distribution lines in process of construction at the end of the year.

10. 55 feet of transmission line and 8.70 miles of distribution line were put into operation during the year, and .69 miles of distribution line were converted into transmission line.

5. Notes

6. 2,515 shares of common stock were issued in exchange for \$125,600.00 of Ten Year 5% Convertible Debenture Bonds dated January 1, 1935, P.S.C. Case No. 2177.

7. \$125,600.00 of Ten Year 5% Convertible Debenture Bonds dated January 1, 1935 were converted into common stock.

8. The amount of \$507,184.50 was credited to the fixed capital account and debited to the retirement reserve, representing the withdrawal of 64.18 miles of abandoned mains, in accordance with a resolution adopted by the Board of Directors.

9. The fixed capital account was credited, and the retirement reserve debited, with the amount of \$4,000,000.00, representing various items of property constituting part of the assets of certain vendor companies acquired by the respondent about 1933 and withdrawn from service in subsequent years, as per resolution of the Board of Directors.

9. No change

10. " "

11. " "

12. See insert pages 617 b and c

522:12-b Important Units of Plant and Equipment Withdrawn During the Year.

Line No.	Location and description (a)	Book cost (b)
1	Citizens Works:	
2	Scrubber House	12,518.89
3	One Craig Ridgeway steam hydraulic 9' x 9' elevator #2	2,907.10
4	Dry lute covers from purifier boxes in #1 purifier house	41,182.50
5		
6	Williamsburgh Works:	
7	Oil testing laboratory	6,944.54
8		
9	Greenpoint Works - Water Gas Plant	
10	Two Western Gas Construction Company mechanical grates from generators	
11	#1 and #2	71,297.77
12		
13	Greenpoint Works - Coke Oven Plant	
14	Nine loading chutes at domestic screening station	1,125.00
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ORIGINAL

ELECTRIC CORPORATIONS
ARTIFICIAL GAS CORPORATIONS } CLASSES A, B, AND C
NATURAL GAS CORPORATIONS }

YEAR ENDED
DECEMBER 31, 1935

Report of

The Brooklyn Union Gas Company
(Give in full the exact corporate, firm, or individual name of the respondent, having regard to the distinction between the words COMPANY and CORPORATION.)

Located at

176 Remsen Street, Brooklyn, N.Y.
(Here give the location, including street and number, of the respondent's main business office within the State.)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1935

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1936

105. CONTROL.

1. Show the requested information concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year, show such members as of the end of the year.

2. Append hereto as a permanent part of the report a certified copy of the trustee agreement or other instrument under which any voting capital stock of the respondent is held if such documents are on file with the reporting corporation; if they are not on file, state that fact.

Name of member	Address of member (city street No.)		Number of voting shares held (date).....Dec. 31, 1935					Line No.
			Common (c)	Preferred		Other securities with voting power		
				First (d)	Second (e)	(f)	(g)	
Burma Company, a Delaware Corporation	601 Koppers Building, Pittsburgh, Pa.	70,000					1	
Aden Company, a Delaware Corporation	601 Koppers Building, Pittsburgh, Pa.	57,940					2	
Gregory Company	650 Koppers Building, Pittsburgh, Pa.	50,000					3	
Sigler & Company	c/o Central Hanover Bank & Trust Co. 70 Broadway, New York, N.Y.	9,581					4	
William R. Coe	Chrysler Bldg., E. 42nd St., N.Y.	8,928					5	
							6	
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							29	
							30	

337. Charges by Affiliated Companies

Line No.	Name of affiliate (a)	Nature of items (b)	Designation of contract (c)	Total charges to respondent \$ (d)	Artificial gas dept. \$ (f)	Amounts charged to:	
						Clearing or other accts. Acct. No. (j)	Amount (k)
1	The Bartlett Hayward Company	Labor and material	None	307,697.83	5,439.41	101	14.54
2						116 123	424.90
3						126 146	301,818.98
4	The Koppers Coal Company, Inc. Coal		"	3,786,584.98		116 123	3,786,584.98
5							
6	The Koppers Construction Co. Material		"	16,779.35	6,382.25	116 123	10,397.10
7							
8	Koppers Gas and Coke Company Labor and material		"	163,150.13	*68,050.43	116 123	16,724.90
9						126 145	76,564.76
10						252 266	512.85
11						134 806	914.43
12						134 813	382.76
13							
14							
15	Koppers Products Company, Inc. Material		"	2,902.85	110.00	116 123	2,792.85
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
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36							
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38							
39							
40							

4,277,115.14 79,982.09

4,197,133.05

* Includes the amount of \$65,412.50 shown on page 324, line 10, column (f).

418. Manufactured Gas Plants

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24 hour capacity M. cu. ft. (c)	Number of ovens (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth and Varick Avenues,		2 batteries, each
3		Brooklyn, N. Y.	20,000	containing 45 ovens;
4				total 90 ovens.
5				
6				
7				
8				Number of
9	(f)	(g)	(h)	water gas sets (1)
10	Water gas plants:			
11	Citizens Works	433 Hoyt Street, Brooklyn, N.Y.	30,000	<i>In operation,</i> <i>364 days</i> 10
12	Williamsburgh Works	Foot of North 12th Street, Brooklyn, N.Y.	30,000	<i>standby</i> 12
13				
14	Metropolitan Works	53 Twelfth Street, Brooklyn, N.Y.	20,000	<i>standby</i> 9
15	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N.Y.	25,000	<i>365 days</i> 6
16				
17				
18			<u>105,000</u>	<u>37</u>
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity each (e)	Capacity total (f)
1	For tanks:					
2	Citizens Works	1	Not known	1905	21,000	21,000
3	"	1	"	1870	60,000	60,000
4	"	5	"	1889	12,000	60,000
5	"	1	"	1893	50,000	50,000
6	"	2	"	1898	27,000	54,000
7	"	5	"	1921	37,500	112,500
8	"	5	"	1918	20,000	100,000
9	"	4	"	"	10,000	40,000
10	"	2	The Bartlett Hayward Co.	1935	118,000	236,000
11	"	1	"	"	300,000	300,000
12	"	1	"	"	850	850
13	"	1	"	"	285,000	285,000
14	Williamshugh Works	1	Logan Iron Works	1892	225,000	225,000
15	"	2	C. L. Rowland	"	6,400	12,800
16	"	1	The Bartlett Hayward Co.	1909	45,000	45,000
17	"	1	"	"	50,900	50,900
18	"	2	Not known	1910	5,700	11,400
19	"	1	"	"	22,700	22,700
20	"	1	"	"	11,400	11,400
21	"	1	The Bartlett Hayward Co.	1911	1,550	1,550
22	"	1	C. Cunningham & Sons	1922	21,800	21,800
23	"	1	C. L. Rowland	1892	158,000	158,000
24	Metropolitan	1	C. Cunningham & Sons	1905	24,179	24,179
25	"	1	Not known	1900	5,584	5,584
26	"	1	Logan Iron Works	1892	129,548	129,548
27	"	1	The Bartlett Hayward Co.	1911	105,469	105,469
28	"	1	Not known	1915	900	900
29	"	5	The Bartlett Hayward Co.	1921	44,064	152,132
30	"	5	"	"	22,500	112,500
31	"	1	"	"	31,680	31,680
32	(Greenpoint)	6	"	1927	46,998	281,988
33	"	1	"	"	405,892	405,892
34	"	2	"	"	269,000	538,000
35	"	1	"	"	81,900	81,900
36	"	1	"	1935	300,000	300,000
37	"	1	The Koppers Construction Co.	1928	550,000	550,000

654,551,512

511. Production Expenses and Gas Manufactured, By Stations - Water Gas

Line No.	Item (a)	Citizens Works (b) c.		Greenpoint Works (c) c.		Standby Costs (d) c.		General Production Expenses (e) c.		Holder Station (f) c.		Total Production Expenses Water Gas (2) (g) c.	
1	Coal gas produced, M.cu.ft.		-		-		-		-		-		-
2	Water gas produced, M.cu.ft.		5,546,660		6,390,105		-		-		-		11,936,765
3	Gas produced, M.cu.ft.-Coke oven gas		-		-		-		-		-		(2)
4	Total gas produced, M.cu.ft.		5,546,660		6,390,105		-		-		-		(2)
5	Maximum 24-hour make, M.cu.ft.(with date)(1/24)		28,588		(4/18) 30,013		-		-		-	(1/27)	53,996
6	Average daily make, M.cu.ft. (364 days)		15,238		(365 days) 17,507		-		-		-		32,703

Footnotes for page 508-a-1:

(1) This item can not be allocated to any of the preceding columns.

(2) See insert page 508-b for figures relating to coke oven gas and grand total production.
All the figures in column (g) relate to water gas.

513. STATION RECORDS AND QUALITY OF OUTPUT—GAS.

Continuing the same columnar arrangement as in schedule 511, show the requested information regarding production of gas in each station. Each manufacturer and natural gas company should give information requested, lines 36 to 51, inclusive.

Station	Item	Citizens Works (water gas plant)	Greenpoint Works (water gas plant)	Greenpoint Works (Loke oven plant)	Stand by	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Gas sold: Bituminous carbonized (short tons)			764,951.08		764,951.08
2	Yield, gas per lb. coal (cu. ft.)			5.72		5.72
3	Average number retorts or ovens in action			90		90
4	Average charge per retort or oven (lbs.)			27,120		27,120
5	Average period of carbonization (hrs.)			13.88		13.88
6	Average make per retort or oven per day (cu. ft.)			266,228		266,228
7	Coke: Short tons produced			591,088.00		591,088.00
8	Coke: Ratio per short ton of coal each. (L. 7 ÷ L. 1)			77.27		77.27
9	<u>Dry</u> gas tar: Gallons produced			6,455,571		6,455,571
10	<u>Dry</u> gas tar: Gallons per short ton of coal each. (L. 9 ÷ L. 1)			8.44		8.44
11	<u>Produce gas fuel</u> : Coke (short tons)			98,117.00		98,117.00
12	Coal (short tons)			-		-
13	Producer gas or returned gas—M cu. ft.			-		-
14	Boiler fuel: Average number boilers	2	4	6	3	15
15	Solid fuel (short tons)	3,728.89	16,970.25			20,699.14
16	Tar or oil used (gals.)	3,138,320	702,681			3,841,001
17	Oil fuel (solid or liquid) per M cu. ft. made	(1) 7.05	7.56			7.33
18	Generators: Average number in use	3	2			5
19	Total square feet of grate surface	(2) 219	136			355
20	Make (hearth) per sq. ft. of grate surface (cu. ft.)	(3) 3,509	5,720			4,415
21	Generator fuel per M made (lbs.)	21.23	15.05			17.92
22	Gas oil: Gallons used for carbonizing blue water gas	19,702,675	4,073,766			23,776,441
23	Water gas tar yield in % of gals. of gas oil	21.90	(4) -			(4) -
24	Gallons per M made	3.55	.64			1.99
25	Average cost per gallon, cents and hundredths	3.00	3.91			3.16
26	Gas purified: Bu. oxide	100,000	52,700	139,700		292,400
27	Cu. ft. <u>oven</u> gas per bu.			62,603		62,603
28	Cu. ft. water gas per bu.	55,467	121,254			78,171
29	Cu. ft. mixed gas per bu.					70,733
30	Heating value of gas: B. t. u. maximum day	557	529	572		-
31	Minimum day	544	480	566		-
32	Average for year	549	512	570		546
33	Specific gravity (to nearest hundredth of a per cent)	.67	.79	.40		-

Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.

514. RESIDUALS.

Station	Item	Coke, tons	<u>Dry</u> gas tar, gals.	Water gas tar, gals.	Ammoniacal liquor, gals.	Carbon, lbs.	Drip oil, gals.	Other residuals (specify)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
41	On hand at beginning of year	93,715.04	100,000	693,302			87,859	2,138.78
42	Made during year	591,088.00	6,455,571	4,835,852			212,075	8,629.86
43	Used during year	(5) 219,601.50	-	3,973,973			99,656	-
44	Sold during year	355,163.82	6,519,571	805,629			158,583	10,178.73
45	On hand at end of year	110,037.72	36,000	749,552			41,695	789.91
46	Credits on account of residuals produced*	\$ 3,607,632.84	\$ 253,646.91	\$ 162,912.57	\$	\$	\$ 15,900.57	\$ 178,461.31
47	Residuals expense	82,062.72	(6) -	-			-	134,885.83 (6)
48	Receipts from sales	2,151,710.02	256,010.89	31,722.42			9,796.65	205,545.01
49	Average selling price	6.058 4	.039 3	.039 4			.061 8	20.19 36

*Through account No. 713 under the system prescribed in case 746 or accounts Nos. 708.1 and 718 under the system prescribed in case 7843.

Notes on: Schedule 513. Station Records and Quality of Output - Gas and " 514. Residuals

Line No.

Line 17:
(1) The equivalent solid boiler fuel is calculated on the ratio of evaporation of solid to liquid-fired boilers. These figures for the year 1935 were as follows:

Pounds per M.			
Equivalent			
Liquid boiler fuel (a)	Solid boiler fuel (b)	solid boiler fuel (c)	Ratio (d)
Citizens 5.70	1.35	10.30	1.57
Greenpoint 1.36	6.20	8.16	1.44
Average 3.38	3.95	9.05	1.51

$$a \times d + b = c$$

Note: The weight of a gallon of tar averages 10 pounds.

Line 19:
(2) Grate surface of one generator multiplied by average number of generators in use.

Line 20:
(3) The basis of the figures on this line is as follows:

Hourly Make			
per sq.ft. of			
Gas made (M. cu. ft.)	Total hours running	Average Make per running hour (cu. ft.)	Grate area per machine (sq. ft.)
Citizens 5,546,660	21,652	256,173	73
Greenpoint 6,390,105	16,430	388,929	68
Total 11,936,765	38,082		
Average		313,449	71
			4,415

Line 23:
(4) It is not feasible to report this figure for the reason that the Greenpoint Works used both gas oil and refinery gas for enrichment purposes, both of which enriching agents produce tar.

Line 43:
(5) Includes 3.50 net tons transferred.

Line 47:
(6) Residuals expense on oven gas tar and sulphate cannot be separately stated.

"The Greenpoint Works was a standby plant during 1935."

4. Show hereunder a summary of gas produced and purchased, and sold or otherwise disposed of. If systems are not fully interconnected, append a statement giving for each system the information called for by captions (a)

2. State all quantities of gas in terms of M cu. ft.

1. Show the requested information concerning each city, village, or town in which respondent rendered service at any time during the year. If service is restricted to a portion of a city, designate the boroughs or distribution districts covered by respondent's operations.

2. If two or more municipalities are treated as a unit, list in an attached memorandum the names of the several municipalities so grouped, with reference to the date of the controlling order of the Public Service Commission.

3. Account titles in column (a) are those contained in the Uniform System of Accounts prescribed in case 7843. Corporations which have not adopted that system of accounts should append hereto a statement of sales during the year classified in accordance with the revenues as shown in schedules 306A or 307A.

4. Revenues may be shown to the nearest dollar only.

3. Account titles in column (a) are those contained in the Uniform System of Accounts prescribed in case 7843. Corporations which have not adopted that system of accounts should append hereto a statement of sales during the year classified in accordance with the revenues as shown in schedules 306A or 307A.

4. Revenues may be shown to the nearest dollar only.

4. Revenues may be shown to the nearest dollar only

Supplement to Schedule 522 Page 517

522:12-b Important Units of Plant and Equipment Withdrawn During the Year

Line No.	Location and description (a)	Book Cost (b) \$
1	Citizens Works:	
2	Six 42" diameter generator stacks removed	5,006.88
3		
4	Williamsburgh Works:	
5	One steel drip tank and foundation	2,658.53
6		
7	Greenpoint Works:	
8	Part of heating system in Ey-Product Building	3,890.00
9	80 sliding doors (parts of conveyor)	7,124.86
10		
11		
12	Office Building:	
13	1054 Flatbush Avenue property sold	52,625.58
14		
15		
16		
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ORIGINAL

ELECTRIC CORPORATIONS
ARTIFICIAL GAS CORPORATIONS } CLASSES A, B, AND C
NATURAL GAS CORPORATIONS }

YEAR ENDED
DECEMBER 31, 1936

Report of The Brooklyn Union Gas Company
(Give in full the exact corporate, firm, or individual name of the respondent, having regard to the distinction between the words COMPANY and CORPORATION)

Located at 176 Remsen Street, Brooklyn, N. Y.
(Here give the location, including street and No., of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1936

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1937

Report for the Year Ended December 31, 1936

105. CONTROL.

1. Show the requested information concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year, show such members as of the end of the year.

2. Append hereto as a permanent part of the report a certified copy of the trustee agreement or other instrument under which any voting capital stock of the respondent is held if such documents are on file with the reporting corporation; if they are not on file, state that fact.

Name of member (a)	Address of member (city street No.) (b)		Number of voting shares held (date) Dec. 31, 1936				Line No.
	Common (c)	Preferred		Other securities with voting power			
		First (d)	Second (e)	(f)	(g)		
Koppers Company	601 Koppers Building Pittsburgh, Pa.	70,000					2
Esmont Company	601 Koppers Building Pittsburgh, Pa.	57,940					3
Falmouth Company	601 Koppers Building Pittsburgh, Pa.	50,000					4
William R. Coe	Chrysler Building E.42nd St., N.Y. City	10,528					5
Sigler & Co.	c/o Central Hanover Bank and Trust Co. 70 Broadway New York, N.Y.	9,376					6
							7
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334. MANAGEMENT, ENGINEERING, OR PURCHASING SERVICE.

1. Show hereunder a complete analysis of each contract (whether or not reduced to writing) in effect at any time during the year with another corporation, partnership, individual, or organization of any form whatever, whereby the respondent received advisory, management, engineering, purchasing, or other type of service of a continuous nature.
2. In column (a), a letter or numeral should be inserted for each contract or subdivision thereof, and the same designation should be used in the other sections of the schedule to identify the distribution of accruals with the governing contract.
3. Entries in columns (g) and (h) should reflect the entire amount payable for the year, and a separate line should be used to show the amount accruing for each class of service.
4. The second portion of the schedule should be used by corporations which have not adopted the Uniform Systems of Accounts prescribed in cases 7832 and 7843, to show distributions of amounts applicable to the year.
5. The third portion of the schedule should be used by corporations which have adopted the Uniform Systems of Accounts prescribed in cases 7832 and 7843, to show corresponding information.
6. In submitting data for columns (k) to (v) and columns (kk) to (vv), a separate line is to be used for each operating department (electric, artificial gas, natural gas, steam, etc.), the name of which is to be given in column (j) or (jj).

Line No.	Designation of contract (a)	Name of company giving service (b)	Date of contract (c)	Date of expiration (d)	Character of service to be given (e)	Basis of payments under contract (f)	Total for year payable under contract		
							As compensation for services (g)	As reimbursement of expenses (h)	(i)
1							\$	\$	
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
Totals									

Line No.	Designation of contract (i)	Department charged (j)	Fixed capital* (k)	Materials and supplies* (l)	Merchandise and jobbing* (m)	Production (n)	Transmission (o)	Distribution (p)	Utilization (q)	Commercial (r)	New business (s)	General and miscellaneous (t)	Acct. No. (u)	Amount* (v)
21						\$ 60,499.99							136	\$ 9,250.00
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
Totals														

Brooklyn Union Gas Co. 1936

Page 324, line 10, col. (f) :

The difference between the amount paid as reported in col. (f) and the charges entered on line 21 may be explained as follows:

Balance in suspense, Dec. 31, 1935

Paid in 1936

Total

Charged to production expenses in 1936

Balance in suspense, Dec. 31, 1936

\$10,916.66
58,833.33
69,749.99
60,499.99

*To nearest dollar.

334. MANAGEMENT, ENGINEERING, OR PURCHASING SERVICE.

1. Show hereunder a complete analysis of each contract (whether or not reduced to writing) in effect at any time during the year with another corporation, partnership, individual, or organization of any form whatever, whereby the respondent received advisory, management, engineering, purchasing, or other type of service of a continuous nature.
2. In column (a), a letter or numeral should be inserted for each contract or subdivision thereof, and the same designation should be used in the other sections of the schedule to identify the distribution of accruals with the governing contract.
3. Entries in columns (g) and (h) should reflect the entire amount payable for the year, and a separate line should be used to show the amount accruing for each class of service.
4. The second portion of the schedule should be used by corporations which have not adopted the Uniform Systems of Accounts prescribed in cases 7832 and 7843, to show distribution of amounts applicable to the year.
5. The third portion of the schedule should be used by corporations which have adopted the Uniform Systems of Accounts prescribed in cases 7832 and 7843, to show corresponding information.
6. In submitting data for columns (k) to (v) and columns (kk) to (vv), a separate line is to be used for each operating department (electric, artificial gas, natural gas, steam, etc.), the name of which is to be given in column (j) or (jj).

Line No.	Designation of contract	Name of company giving service	Date of contract	Date of expiration	Character of service to be given	Basis of payments under contract	Total for year payable under contract		
							As compensation for services	As reimbursement of expenses	
	(a)	(b)	(c)	(d)	(e)	(f)	\$	(g)	(h)
1						The respondent has executed no contract whereby it receives from another corporation, partnership, individual, or organization of any form whatever, advisory, management, engineering, purchasing, or other type of service of a continuous nature.			
2						Paid Koppers Company \$58,833.33 during 1936, covering inspections of plant and services in connection with operations, which included reimbursement of the salary of an operator.			
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
Totals									

Line No.	Designation of contract	Department charged	Fixed capital*	Materials and supplies*	Merchandise and jobbing*	Production	Transmission	Distribution	Utilization	Commercial	New business	General and miscellaneous	Other accounts	
													Acct. No.	Amount*
	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)
21						\$ 60,499.99							136	\$ 9,250.00
22														
23														
24														
25														
26														
27														
28														
29														
30														
31														
32														
33														
34														
35														
36														
Totals														

Brooklyn Union Gas Co. 1936

Page 324, line 10, col.(f) :

The difference between the amount paid as reported in col.(f) and the charges entered on line 21 may be explained as follows:

Balance in suspense, Dec. 31, 1935

Paid in 1936

Total

Charged to production expenses in 1936

Balance in suspense, Dec. 31, 1936

*To nearest dollar.

418. Manufactured Gas Plants

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24-hour capacity M. cu. ft. (c)	Number of ovens (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N.Y.	20,000	2 batteries each containing 45 ovens; total 90 ovens
3				
4				
5				
6				
7				
8				
9				
10	Water gas plants:			
11	Citizens Works	433 Hoyt Street, Brooklyn, N.Y.	30,000	10
12	Williamsburgh Works	Foot of North 12th Street, Brooklyn, N.Y.	30,000	11
13				
14	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N.Y.	25,000	6
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27			<u>85,000</u>	<u>27</u>
28				
29				
30				
31				
32				
33				
34				
35				
36				

Note:

The Williamsburgh Works was maintained in operating condition throughout the year. Gas was last made on March 14, 1934.
The Metropolitan Works was retired March 31, 1936.

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity Each (e)	Total (f)
1	Tar Tanks:					
2	Greenpoint Works	1	Bartlett Hayward Co.	1927	400,000	400,000
3	"	1	"	1933	300,000	300,000
4	"	2	Koppers Construction Co.	1928	10,000	20,000
5	"	1	"	1928	550,000	550,000
6	Citizens Works	1	Unknown	1889	12,000	12,000
7	"	2	"	1898	27,100	54,200
8	"	2	Bartlett Hayward Co.	1933	100,000	200,000
9	"	1	"	1933	300,000	300,000
10	Williamsburgh Works	1	Logan Iron Works	1892	230,000	230,000
11	"	2	C. L. Rowland	1892	6,477	12,954
12	"	1	"	1892	158,600	158,600
13		<u>15</u>				<u>2,237,754</u>
14						
15						
16						
17	Oil Tanks:					
18	Greenpoint Works	2	Bartlett Hayward Co.	1927	1,000,000	2,000,000
19	"	2	United Eng. & Const. Co.	1932	4,500	9,000
20	"	1	Unknown	1933	6,000	6,000
21	"	1	Bartlett Hayward Co.	1928	No Rating	-
22	"	1	Unknown	1928	"	-
23	Citizens Works	1	Bartlett Hayward Co.	1903	250,000	250,000
24	"	1	"	1905	440,000	440,000
25	"	1	"	1916	685,000	685,000
26	Williamsburgh Works	1	W. H. Childs	1894	341,000	341,000
27	"	1	C. Cunningham Company	1905	282,000	282,000
28	"	1	Bartlett Hayward Co.	1916	685,236	685,236
29	"	5	"	1918	20,000	100,000
30		<u>18</u>				<u>4,798,236</u>
31						
32						
33						
34	Separators:					
35	Greenpoint Works	2	Bartlett Hayward Co.	1927	269,000	538,000
36	"	1	"	1927	61,900	61,900
37	"	2	Koppers Construction Co.	1928	54,300	108,600
38	"	1	Unknown	1929	20,000	20,000
39	Citizens Works	1	Bartlett Hayward Co.	1920	37,500	37,500
40	"	1	"	1933	1,200	1,200
41	"	1	"	1903	21,000	21,000
42	"	1	"	1933	283,000	283,000
43	Williamsburgh Works	1	Unknown	1896	11,468	11,468
44	"	1	"	1910	5,640	5,640
45	"	1	"	1910	5,922	5,922
46	"	1	C. Cunningham Company	1922	21,807	21,807
47	"	2	Bartlett Hayward Co.	1909	No Rating	-
48	"	1	C. Cunningham Company	1923	"	-
49	"	1	Unknown	1896	"	-
50		<u>18</u>				<u>1,136,037</u>
51						
52						
53						
54						
55						
56						

See note on Schedule 520, Plant sheet 517c.

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Expend & keep oil storage:	2	Koppers Construction Co.	1929	7,500	15,000
2	Greenpoint Works	3	Unknown	1929	18,000	54,000
3	Citizens Works	1	"	1993	50,000	50,000
4	"	1	Bartlett Hayward Co.	1918	10,000	10,000
5	"	1	Unknown	1931	18,000	18,000
6	Williamabush Works	1	"	1931	1,400	1,400
7		<u>1</u>				<u>134,400</u>
8						
9						
10						
11	Tap distillate & emulsion:	6	Bartlett Hayward Co.	1918	20,000	100,000
12	Citizens Works	2	"	1918	10,000	20,000
13	"	1	Unknown	1939	1,000,000	1,000,000
14	"					
15		<u>1</u>				<u>1,120,000</u>
16						
17						
18						
19	Collecting & Reel wind:	1	Koppers Construction Co.	1928	30,000	30,000
20	Greenpoint Works	2	Unknown	-	No Rating	-
21	"	4	"	1927	"	-
22	"	2	Ingersoll Rand	1926	"	-
23	"	7	Unknown	1928	"	-
24	"	2	"	1929	"	-
25	"	1	Koppers Construction Co.	1928	"	-
26	"	1	Unknown	1932	"	-
27	"	1	Unknown	1925	81	81
28	Citizens Works	1	Unknown	1925	No Rating	-
29	"	1	Bartlett Hayward Co.	1923	100	100
30	Williamabush Works	1	Unknown	1911	50	50
31	"	1	"	1931	No Rating	-
32		<u>1</u>				<u>30,239</u>
33						
34						
35						
36						
37	Reel wind oil & tank:	2	Bartlett Hayward Co.	1927	40,000	80,000
38	Greenpoint Works	6	"	1927	45,800	274,800
39	"	1	Allen-Sharman-Hoff	1931	20	20
40	"	1	Ritter Conley Mfg. Co.	1928	12,000	12,000
41	"	1	Koppers Construction Co.	1928	200,000	200,000
42	"	1	"	1928	20,000	100,000
43	"	1	"	1928	4,000	4,000
44	"	1	Unknown	1932	2,000	2,000
45	"	1	"	1932	2,600	2,600
46	"	1	Ingersoll-Rand	1928	600	600
47	"	1	Unknown	1933	1,000	1,000
48	"	2	Bartlett Hayward Co.	1927	No Rating	-
49	"	5	Unknown	1927	"	-
50	"	6	Unknown	1927	"	-
51						
52						
53						
54						
55						
56						

See note on Schedule 522, Survey sheet 5170.

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Miscellaneous Tanks (Cont'd.)	16	Unknown	1928	No Rating	-
2	Greenpoint Works	13	Koppers Construction Co.	1928	" "	-
3	"	3	Unknown	1932	" "	-
4	"	3	"	1930	" "	-
5	"	2	Bartlett Hayward Co.	1928	" "	-
6	"	2	Smoot Engineering Co.	1930	" "	-
7	"	2	Brooklyn Union Gas Co.	1931	" "	-
8	"	1	Unknown	-	" "	-
9	"	8	"	1930	120	960
10	"	1	Bartlett Hayward Co.	1918	10,000	10,000
11	Citizens Works	1	Unknown	1921	52	52
12	"	1	"	1870	60,000	60,000
13	"	1	"	1923	120	120
14	"	4	"	1921	No Rating	-
15	"	1	Connersville Flower Co.	1930	" "	-
16	"	2	Unknown	1930	" "	-
17	"	4	"	1913	" "	-
18	"	1	"	1927	" "	-
19	"	3	"	1923	" "	-
20	"	3	"	1924	" "	-
21	"	1	Brooklyn Union Gas Co.	1934	" "	-
22	Williamsburgh Works	1	Unknown	1931	940	940
23	"	3	"	1911	60	180
24	"	1	Bartlett Hayward Co.	1927	23,000	23,000
25	"	1	Dorr Co.	1927	366	366
26	"	1	Unknown	1916	53	53
27	"	1	C. Cunningham Co.	1909	No Rating	-
28	"	1	Unknown	1924	" "	-
29	"	1	"	1923	" "	-
30	"	1	New England Tank & Tower Co.	1927	" "	-
31	"	1	Dorr Co.	1927	" "	-
32	"	1	United Filter Co.	1927	" "	-
33	"	1	Brooklyn Union Gas Co.	1923	" "	-
34	"	1	Unknown	1917	" "	-
35	"	1	C. Cunningham Company	1925	" "	-
36	"	3	"	1923	" "	-
37	"	1	Curtis Pneumatic Mach. Co.	1925	" "	-
38	"	1	Unknown	-	" "	-
39	"	1	"	1923	120	120
40	"	1	"	1924	No Rating	-
41	Schools Street Station	1	Automotive Primer Co.	1929	" "	-
42	"	4	Unknown	1903	50	200
43	Belmont Avenue Station	1	"	1925	1,138	1,138
44	Wylie Avenue Station	1	"	1925	45	45
45	"	1	"	1924	120	240
46	"	2	"	1911	No Rating	-
47	"	1	"	1922	" "	-
48	"	1	"	1928	" "	-
49	"	1	Brooklyn Union Gas Co.	1923	" "	-
50	"	1	Unknown	1931	" "	-
51	"	1	"	-	" "	-
52	"	1	"	-	" "	-
53	"	1	"	-	" "	-
54	"	1	"	-	" "	-
55	"	1	"	-	" "	-
56	"	1	"	-	" "	-

See note on Schedule 522, Sheet 419C.

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Miscellaneous Tanks (Cont'd)	2	Unknown	1900	56	110
2	Front Street Station	1	"	1896	423	423
3	"	1	"	1867	500	500
4	"	1	"	1831	No Rating	-
5	Maspeth Avenue Station	7	Bartlett Hayward Co.	1927	600	4,200
6	"	1	"	1926	9,800	9,800
7	"	1	Unknown	1926	255.5	255.5
8	"	1	Codeman Engineering Co.	1926	282	282
9	"	1	L. O. Koven Bro.	1930	2,500	2,500
10	"	2	Walters Construction Co.	1933	350	1,100
11	"	1	Brooklyn Union Gas Co.	1926	1,128	1,128
12	"	1	"	1928	No Rating	-
13	"	1	Unknown	1928	"	-
14	"	1	Bartlett Hayward Co.	1928	"	-
15	"	1	Brooklyn Union Gas Co.	1932	"	-
16	"	1	Unknown	1926	"	-
17	"	1	Bartlett Hayward Co.	1926	300	300
18	"	7	Unknown	1934	100	700
19	Flatbush Station	1	Hauck Manufacturing Co.	1927	12	12
20	"	1	Unknown	1902	2,380	2,380
21	"	3	"	1929	50	400
22	"	1	S. F. Bowser - Inc.	1910	No Rating	-
23	"	1	Unknown	1933	"	-
24	"	6	Buckeye Engineering Co.	1910	"	-
25	"	7	Unknown	1924	"	-
26	"	4	"	1910	"	-
27	"	2	"	1910	"	-
28	"	2	"	1927	"	-
29	Twelfth Street Station	1	Bartlett Hayward Co.	1924	6,500	6,500
30	"	2	S. F. Bowser - Inc.	1924	No Rating	-
31	"	1	Unknown	1931	"	-
32	"	1	"	1921	"	-
33	"	1	"	1911	"	-
34	Newtown Station	2	"	1930	120	240
35	"	1	"	1930	50	50
36	"	1	"	1925	50	50
37	"	1	Hauck Manufacturing Co.	1927	12	12
38	"	14	Unknown	1912	No Rating	-
39	"	7	"	1933	"	-
40	"	10	"	1924	"	-
41	"	4	Brooklyn Union Gas Co.	1931	"	-

254

866,476.5

See note on Schedule 522, Grant about 517c.

511 - Production Expenses - and Gas Manufactured, by Stations - Water Gas

Supplement to Schedule 511 Page 508

Insert Sheet No. 508 a-1

Line No.	Item (a)	Citizens Works \$ (b) c.	Greenpoint Works \$ (c) c.	Standby Costs \$ (d) c.	General Production Expenses (e)	Holder Stations \$ (f) c.	Total Production Expenses-Water Gas (2) \$ (g) c.
1	701.1 Works superintendence	67,767.59	58,557.30	31,553.75	41,677.71	-	199,556.35
2	701.2 Boiler labor	61,088.02	43,613.26	-	-	-	104,701.28
3	701.3 Retort labor	-	-	-	-	-	-
4	701.4 Generator labor	68,498.52	55,520.02	-	-	-	124,018.54
5	701.5 Purification labor	4,861.26	5,777.34	-	-	-	10,638.60
6	701.6 Miscellaneous works labor	61,869.02	69,388.00	45,354.32	-	-	176,611.34
7	701 Works superintendence and labor	264,084.41	232,855.92	76,908.07	41,677.71	-	615,526.11
8	702.1 Boiler fuel	139,406.83	80,948.58	-	-	-	220,355.41
9	702.2 Water	15,364.97	17,084.01	-	-	-	32,448.98
10	703 Fuel under retorts	-	-	-	-	-	-
11	704 Coal carbonized	-	-	-	-	-	-
12	705 Generator fuel	500,994.46	360,389.19	-	-	-	861,383.65
13	706 Water gas oil	667,337.12	231,116.89	-	-	-	898,454.01
14	707.1 Refinery gas	-	383,532.78	-	-	-	383,532.78
15	707.2 Purification supplies	27,087.11	12,901.06	-	-	-	39,988.17
16	707.3 Miscellaneous works expenses	25,414.74	27,678.66	17,239.27	2,049.57	-	72,382.24
17	707.4 Gas storage	-	-	-	-	205,018.51	205,018.51
18	Total, Accts. 702.1 to 707.4 incl.	1,375,605.23	1,113,651.17	17,239.27	2,049.57	205,018.51	2,713,563.75
19	708 Maintenance of:						
20	708 Works and station structures	31,735.13	13,692.21	16,986.81	-	15,664.41	78,078.56
21	709.12 Furnaces and boilers	9,610.06	11,157.31	3,527.82	-	4,415.67	28,710.86
22	709.13 Boiler apparatus	5,202.81	2,632.59	493.23	-	1,672.39	10,001.02
23	709.14 Steam accessories	5,282.75	6,098.97	2,033.70	-	2,809.36	16,224.78
24	709.15 Steam engines	2,463.56	3,032.23	241.39	-	2,126.30	7,863.48
25	709.16 Internal combustion engines	-	-	-	-	4,449.82	4,449.82
26	709.17 Miscellaneous power equipment	870.80	230.45	53.47	-	-	1,154.72
27	709.1 Power equipment	23,429.98	23,151.55	6,349.61	-	15,473.54	68,404.68
28	709.21 Benches and retorts	-	-	-	-	-	-
29	709.22 Water gas sets	32,862.97	23,785.48	2,417.48	-	-	59,065.93
30	709.23 Purification apparatus	6,425.34	3,954.25	2,932.40	-	-	13,311.99
31	709.24 Holders	-	-	2,291.53	-	85,548.90	87,840.43
32	709.25 Accessory works equipment	18,160.25	6,072.58	4,470.77	-	15,155.12	43,858.72
33	709.26 Laboratory equipment	815.54	410.86	62.09	-	-	1,288.49
34	709.27 Implements and accessories	1,982.04	580.68	95.59	-	-	2,658.31
35	709.2 Gas apparatus and tools	60,246.14	34,803.85	12,269.86	-	100,704.02	208,023.87
36	711 Power from other sources	-	-	-	-	-	-
37	712 Steam generated-Appportionment account	-	-	-	-	-	-
38	713 Residuals produced - Credit	198,844.60	33,579.32	-	-	-	232,423.92
39	715 Duplicate production charges - Credit	-	-	-	-	-	(1) 5,472.48
40	Total cost of gas produced-Water Gas (2)	21,556,256.29	1,384,575.38	129,753.62	43,727.28	336,860.48	3,445,700.57
41	Footnotes for this page are on page 508 a-2						

511 - Production Expenses - and Gas Manufactured, By Stations - Water Gas

Line No.	Item (a)	Citizens Works (b) c.		Greenpoint Works (c) c.		Standby Costs (d) c.		General Production Expenses (e) c.		Holder Stations (f) c.		Total Production Expenses-Water Gas (2) (g) c.	
1	Coal gas produced, M. cu. ft.	-		-		-		-		-		-	
2	Water gas produced, M. cu. ft.	5,940,815		6,441,717		-		-		-		12,382,532	
3	Gas produced, M. cu. ft. Coke oven gas	-		-		-		-		-		(2)	
4	Total gas produced, M. cu. ft.	5,940,815		6,441,717		-		-		-		(2)	
5	Maximum 24-hour make, M. cu. ft. (with date) 1/24	31,591		1/24	33,153	-		-		-		1/24	64,744
6	Average daily make, M. cu. ft. 365 days	16,276		366 days	17,600	-		-		-		33,832	

Footnotes for page 508 a-1:

(1) This item cannot be allocated to any of the preceding columns.

(2) See insert page 508-b for figures relating to coke oven gas and grand total production.
All the figures in column (g) relate to water gas.

Supplement to Schedule 511 Page 512

Insert Sheet No. 512

511. Production Expenses and Gas Manufactured by Operations
Greenpoint Works - Coke Oven Gas Plant

Item	(a)	(b)	Total production expenses - coke oven gas
1 Gross cost:			
2 Production labor			477,307.56
3 Production materials:			
4 Materials shown in Schedule 512	4,536,522.32	4,511,561.50	
5 Other production materials	273,272.22	252,223.01	
6 Maintenance costs			
7 Total gross cost			5,501,052.17
8			
9			
10 Materials produced:			
11 Coke	3,633,112.28	3,633,425.00	
12 Oven gas lost	242,425.00	242,425.00	
13 Subje to of owner's	265,456.77	2,401.34	
14 Refractories	3,401.34	4,165,725.09	
15 Total materials produced			
16			
17 Refractories expense:			
18 Coke	112,427.53		
19 Other materials	136,199.27		
20 Total materials expense			248,626.80
21			
22 Net credits for materials			3,315,713.14
23			
24 Duplicate production charges - credits			404.03
25			
26 Net cost of coke oven gas made			1,923,205.25
27			
28 Coke oven gas produced - W. cv. ft.			3,563,477
29 Maximum 24 hour make - W. cv. ft. (with data)			34,712
30 Average daily make - W. cv. ft. (365 days)			25,527
31			
32 Total gas produced - water gas and coke oven gas - W. cv. ft.			21,052,109
33 Maximum 24 hour make - W. cv. ft. (with data)			27,520
34 Average daily make - W. cv. ft.			27,513
35			
36			
37			
38 * Materials shown in Schedule 512			70,325.57
39 Other materials expense			55,273.70
40 Total			125,599.27
41			
42			
43			
44			
45			
46			
47			
48			
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56			

513. STATION RECORDS AND QUALITY OF OUTPUT—GAS.

Continuing the same columnar arrangement as in schedule 511, show the requested information regarding production of gas in each station. Each manufactured and natural gas company should give information requested, lines 30 to 33, inclusive.

Designation of station	Item (a)	Citizens Works (Water Gas Plant)	Greenpoint Works (Water Gas Plant)	Greenpoint Works (Coke Oxy Plant)	Standby	(f)	Totals (g)
1 Gas coal: Bituminous carbonized (short tons)				771,043.00			771,043.00
2 Yield, gas per lb. coal (cu. ft.)				5.62			5.62
3 Average number retorts or ovens in action				90			90
4 Average charge per retort or oven (lbs.)				27,497			27,497
5 Average period of carbonization (hrs.)				13.85			13.85
6 Average make per retort or oven per day (cu. ft.)				263,190			263,190
7 Coke: Short tons produced				590,616.80			590,616.80
8 Coke: Ratio per short ton of coal carb. (l. 7 + l. 1)				76.60			76.60
9 Coke: Gallons produced				6,209,275			6,209,275
10 Coke: Gallons per short ton of coal carb. (l. 9 + l. 1)				8.05			8.05
11 Producer gas: Coal (short tons)				100,235.00			100,235.00
12 Coal (short tons)				-			-
13 Producer gas or returned gas—M cu. ft.				-			-
14 Boiler fuel: Average number boilers				6			6
15 Solid fuel (short tons)							
16 Tar or oil used (gals.)							
17 Lbs. fuel (solid or liquid) per M cu. ft. made							
18 Generators: Average number in use							
19 Total square feet of grate surface							
20 Make (hourly) per sq. ft. of grate surface (cu. ft.)							
21 Generator fuel per M made (lbs.)							
22 Gas oil: Gallons used for carburetting blue water gas							
23 Water gas tar yield in % of gals. of gas oil							
24 Gallons per M made							
25 Average cost per gallon, cents and hundredths							
26 Gas purified: Bu. oxide							
27 Cu. ft. gas per bu.							
28 Cu. ft. water gas per bu.							
29 Cu. ft. mixed gas per bu.							
30 Heating value of gas: B. t. u. maximum day							
31 Minimum day							
32 Average year							
33 Specific gravity (to nearest hundredth of a per cent)							

Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.

Item (a)	Coke, tons (b)	Over- head gas tar, gals. (c)	Water gas tar, gals. (d)	Ammoniacal liquor, gals. (e)	Carbon, lbs. (f)	Drip oil, gals. (g)	Other residuals (specify) (h)
41 On hand at beginning of year	110,037.72	36,000	749,552			41,695	
42 Made during year	(5) 594,651.40	6,209,275	6,038,773			264,547	
43 Used during year	237,489.35	-	4,886,377			1,642	
44 Sold during year	380,878.59	6,090,275	1,383,441			273,754	
45 On hand at end of year	86,321.18	155,000	518,512			30,646	
46 Credits on account of residuals produced *	\$3,698,112.88	\$ 248,425.00	\$ 207,197.83	\$		\$25,924.10	
47 Residuals expense	112,467.68	(6)	-			-	
48 Receipts from sales	2,302,830.40	243,611.00	55,337.64			2301.14	
49 Average selling price	6.0461	.0400	.0400			.0841	

* Through account No. 713 under the system prescribed in case 746 or accounts Nos. 708.1 and 718 under the system prescribed in case 7843.

Notes on: Schedule 513. Station Records and Quality of Output - Gas
and " 514. Residuals

Line 17:

(1) The equivalent solid boiler fuel is calculated on the ratio of evaporation of solid to liquid-fired boilers. These figures for the year 1936 were as follows:

	Pounds per M			Ratio
	Liquid boiler fuel	Solid boiler fuel	Equivalent Solid boiler fuel	
Works	(a)	(b)	(c)	(d)
Citizens	4.79	3.03	10.84	1.83
Greenpoint	2.88	5.07	9.56	1.56
Average	3.80	4.09	10.17	1.60

$$(a \times d + b = c)$$

Note: The weight of a gallon of tar averages 10 pounds

Line 19:

(2) Grate surface of one generator multiplied by average number of generators in use

Line 20:

(3) The basis of the figures on this line is as follows:

Works	Gas made (M. cu. ft.)	Total hours running	Average make per running hour (cu. ft.)	Grate area per machine (sq. ft.)	Hourly make per sq. ft. of grate area (cu. ft.)
Citizens	5,940,815	23,479	253,027	68	3,721
Greenpoint	6,441,717	16,173	398,301	68	5,857
Totals	12,382,532	39,652			
Averages			312,280	68	4,592

Line 23:

(4) It is not feasible to report this figure for the Greenpoint Works for the reason that this plant used both gas oil and refinery gas for enrichment purposes, both of which enriching agents produced tar.

Line 42:

(5) Includes 4,034.60 net tons purchased for use as producer fuel.

Line 47:

(6) Residuals expense on oven gas tar and sulphate cannot be separately stated.

Column (g)

(7) Includes tar oil.

Note - The Williamsburgh Works was a standby plant during the year 1936.

515. SUMMARY OF PRODUCTION AND SALES—GAS,

1. Show hereunder a summary of gas produced and purchased; and sold or otherwise disposed of. If systems column (a) for lines 8 to 11, are not fully interconnected, append a statement giving for each system the information called for by captions in 2. State all quantities of gas in terms of Mcu, ft.

Kind of gas Item (a)	Gas produced and purchased, M cu. ft.					Total	Kind of gas Item (f)	Gas sold or otherwise disposed of, M cu. ft.					
	Water gas (b)	Coke oven gas (c)	(d)	(e)	(g)			(h)	(i)	Total			
On hand at beginning of year						60,808	Sold to affiliated companies						
Produced during year	12,382,532	8,669,477				21,052,009	Other sales						20,152,553
Purchased from affiliated companies						-	Transferred to affiliated companies						-
Purchased from other than affiliated companies						-	Del'd under agency agreements						-
Received under agency agreements						-	Supplied without direct charge						-
Transferred from affiliated companies						-	Used by respondent						-
Total available for distribution						21,112,817	Lost and unaccounted for						92,215
Maximum hourly send-out in M cu. ft.						8,691	On hand at end of year						806,484
Date and hour of its occurrence						1 P.M.	Totals						61,565
						November 26, 1936 - 12 Noon to	Unaccounted for gas per mile of equivalent 3" main						21,112,817
													157
Maximum daily send-out, M cu. ft.	January 84,383	February 75,181	March 68,140	April 66,494	May 64,463	June 58,884	July 56,150	August 53,314	September 67,841	October 68,185	November 79,557	December 72,472	

16. SALES BY MUNICIPALITIES—ARTIFICIAL OR NATURAL GAS.

1. Show the requested information concerning each city, village, or town in which respondent rendered service at Corporations which have not adopted that system of accounts should append hereto a statement of sales during the any time during the year. If service is restricted to a portion of a city, designate the boroughs or distribution district classified in accordance with the revenues as shown in schedules 306A or 307A.

any time during the year. If service is restricted to a portion of a city, designate the borough or municipality and the portion of the city. If service is restricted to a portion of a city, designate the borough or municipality and the portion of the city. If service is restricted to a portion of a city, designate the borough or municipality and the portion of the city.

2. If two or more municipalities are treated as a unit, list in an attached memorandum the names of the several

[illegible]

522:12 Important Units of Plant and Equipment Installed During the Year.

Line No.	Location and description (a)	\$ Book Cost (b)
1	Greenpoint Works:	
2	3 Conveyors to remove fines from domestic screens	8,097.21
3	1 Egg screen and appurtenances	6,063.39
4	New "Transite" sheeting on screening station roof, conveyor gallery	
5	roof and conveyor junction house roof	5,230.24
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ELECTRIC CORPORATIONS
ARTIFICIAL GAS CORPORATIONS } CLASSES A, B, AND C
NATURAL GAS CORPORATIONS

YEAR ENDED
DECEMBER 31, 1937

Report of **The Brooklyn Union Gas Company**
(Give in full the exact corporate, firm, or individual name of the respondent, having regard to the distinction between the words company and corporation)

Located at **176 Remsen Street, Brooklyn, N.Y.**
(Here give the location, including street and number, of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1937

Report for the Year Ended December 31, 1937

105. CONTROL.

1. Show the requested information concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year, show such members as of the end of the year.
2. Append hereto as a permanent part of the report a certified copy of the trustee agreement or other instrument under which any voting capital stock of the respondent is held if such documents are on file with the reporting corporation; if they are not on file, state that fact.

Name of member (a)	Address of member (city street No.)		Common (c)	Preferred		Other securities with voting power (f) (g)		Line No.
				First (d)	Second (e)			
Koppers Company	(b) P.O. Box 551 Wilmington, Del.		70,000					1
Esmont Company	do		57,940					2
Falmouth Company	do		50,000					3
William R. Coe	Chrysler Building E. 42nd St., N.Y. City		8,948					4
								5
								6
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December 31, 1937

Report for the Year Ended December 31, 1937

311. DIRECT OPERATING EXPENSES—MANUFACTURED GAS.
CLASSES A and B (Annual operating revenues in excess of \$50,000).

For use by corporations which have not adopted the Uniform System of Accounts prescribed in case 7643.
1. Show the various items of direct expenses in conducting manufactured gas operations during the year.
2. All credit entries in this schedule should be made in red ink.

Item	Amount	Item	Amount	Line No.
(a)	(b)	(c)	(d)	(e)
701.1 Works superintendent	202,734 74	Total brought forward	5,151,745 95	1
701.2 Boiler labor	109,652 73	721.1 Transmission pumping	239,106 09	2
701.3 Retort labor	-	721.21 Distribution superintendence	512,381 68	3
701.4 Generator labor	123,975 06	721.22 Distribution supplies and expenses	64,727 15	4
701.5 Purification labor	13,520 69	721.2 Distribution superintendence and expenses	577,108 83	5
701.6 Miscellaneous works labor	179,376 96	721.31 Maintaining installations	198,215 02	6
701 Works superintendent and labor	629,260 18	721.32 Work on consumers' premises	511,100 25	7
702.1 Boiler fuel	202,153 42	721.33 Installing consumers' meters	-	8
702.2 Water	35,980 58	721.3 Consumers' premises work	709,315 27	9
703 Fuel under retorts	-	721.4 Removing and resetting meters	347,051 94	10
704 Coal carbonized	-	722.1 Maintenance of mains	618,623 92	11
705 Generator fuel	-	722.2 Maintenance of services	143,258 41	12
706 Water gas oil	899,735 35	722.3 Maintenance of shop buildings	4,357 22	13
707.1 Coal gas— works Refinery gas	* 1,080,213 37	722.32 Maint. of distribution implements and accessories	22,919 75	14
707.2 Purification supplies	473,596 31	722.33 Maintenance of gas appliances	-	15
707.3 Miscellaneous works expense	48,799 69	723 Maintenance of consumers' meters	27,276 97	16
707.4 Gas storage	81,366 44	723.1 Commercial general labor	325,536 92	17
Total, Accounts 702.1 to 707.4, incl.	187,093 79	723.2 Commercial bookkeeping	23,507 64	18
708 Maintenance of works and station structures	3,008,938 95	723.3 Commercial books and contracts	2,963,770 71	19
709.1 Maintenance of furnaces and boilers	67,439 81	724 Duplicate distribution charges—Cr.	-	20
709.13 Maintenance of boiler apparatus	31,105 00	Total Transmission and Distribution Expenses	-	21
709.14 Maintenance of steam accessories	8,240 08	731 Operation of street lamps	-	22
709.15 Maintenance of steam engines	12,199 06	732 Maintenance of street lamps	-	23
709.16 Maintenance of internal combustion engines	6,775 55	Total Street Lighting Expenses	-	24
709.17 Maintenance of miscellaneous power equipment	7,681 38	761.1 Commercial general labor	634,338 68	25
709.21 Maintenance of power equipment	1,194 26	761.21 Commercial bookkeeping	532,655 35	26
709.21 Maintenance of benches and retorts	67,195 33	761.22 Commercial contracts	127,377 51	27
709.22 Maintenance of water gas acts	-	761.2 Commercial books and contracts	660,032 86	28
709.23 Maintenance of purification apparatus	55,062 75	761.31 Commercial collecting	373,807 24	29
709.24 Maintenance of holders	19,660 81	761.32 Meter reading	254,640 06	30
709.25 Maintenance of accessory works equipment	85,546 60	761.3 Commercial meter reading and collecting	628,447 30	31
709.26 Maintenance of laboratory equipment	45,377 75	761.4 Commercial supplies and expenses	275,340 37	32
709.27 Maintenance of implements and accessories	1,331 61	Agents' commissions	-	33
710 Maintenance of gas apparatus and tools	2,949 65	Total Commercial Expenses	2,198,159 21	34
711 Power from other sources	209,929 17	771.11 New business management salaries	217,821 73	35
712 Steam generated—Apportionment account	-	771.12 New business advertising salaries	23,869 81	36
713 Residuals produced—Cr.	-	771.1 New business salaries	241,691 54	37
714 Residuals expense	279,421 94	771.21 Demonstrations	52,561 02	38
715 Duplicate production charges—Cr.	6,903 16	771.23 Advertising supplies and expenses	172,870 42	39
716 Production expenses transferred—Cr.	3,571 77	771.24 Canvassing and soliciting	614,239 48	40
717 " -Coke Oven Gas	-	771.25 Miscellaneous new business supplies and expenses	143,000 13	41
718 Total Production Expenses carried forward	1,445,073 06	771.2 New business supplies and expenses	982,671 05	42
	5,151,745 95	Total New Business Expenses	1,224,362 59	43
		Total Direct Operating Expenses—Misc.	11,538,038 46	44
		Gas—forward L. 35, col. (c), p. 310		45

* 314 difference between this amount and what is shown above 509 a
 appears gas oil used for purification purposes.

337 Charges By Affiliated Companies

Supplement to Schedule 337

Page 327

Insert Sheet No. 327 a

Line No.	Name of Affiliate	Nature of items	Designation of contract	Total charges to respondent	Artificial gas dept.	Amounts charged to:	
						Clearing or Other Accounts	Amount
	(a)	(b)	(c)	(d)	(f)	No. (j)	(k)
1	Koppers Company, Inc.	Services and Material	None	\$ 144,952.48	* 59,059.46	116	8,970.67
2						134	1,020.26
3						136	74,020.84
4						252	1,881.25
5							
6	Koppers Company-Bartlett					101	82.50
7	Hayward Division	Services and Material	None	168,362.31	35,857.59	116	1,314.55
8						136	131,108.42
9						134	.75
10							
11						116	3,604,796.09
12	Koppers Coal Company	Material	None	3,604,796.09	-		
13							
14	Koppers Company-Engineering					101	270.00
15	and Construction Division	Material	None	33,394.44	9,790.92	116	23,564.76
16						134	240.32
17						136	9.08
18							
19							
20	Koppers Company-Tar and						
21	Chemical Division	Material	None	140.00	31.10	116	108.90
22							
23	Koppers Company-Western						
24	Gas Division	Material	None	96.25	96.25		-
25							
26	Totals			3,951,741.57	104,835.32		3,846,906.25
27							
28							
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* Includes the amount of \$55,500.00 shown on page 324, line 8, column (f)

**Account numbers under uniform system of accounts prescribed in Case 746

Green ink corrections by P. S. C. Accounting Division
 3/8/39, Clerk A.M.
 Authorized by letter dated.....

418. Manufactured Gas Plants

Line No.	Designation of plant (a)	Location of plant (including street and No.) (b)	Rated 24-hour capacity M. cu. ft. (c)	Number of ovens or benches (d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N. Y.	20,000	2 batteries, each containing 45 ovens; total 90 ovens.
3				
4				
5				
6				
7				
8				
9	(f)	(g)	(h)	Number of water gas sets (i)
10	Water gas plants:			
11	Citizens Works	453 Hoyt Street, Brooklyn, N. Y.	30,000	10
12	Williamsburgh Works	Foot of North 12th Street, Brooklyn, N. Y.	30,000	11
13				
14	Greenpoint Works	Maspeth and Varick Avenues Brooklyn, N. Y.	25,000	6
15				
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Note:

The Williamsburgh Works, a reserve plant, was maintained in operating condition throughout the year. Gas was last made on March 14, 1934.

419. Auxiliary Apparatus at Manufactured Gas Plants - Relief Holders

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year Installed (d)	Capacity (e)
1	Relief Holders				
2	Citizens Works	1	The Bartlett Hayward Company	1930	806,408
3	Williamsburgh Works	1	Jesse Starr & Company	1863	315,000
4	Greenpoint Works	1	The Bartlett Hayward Company	1927	1,000,000
5					
6		<u>3</u>			<u>2,121,408</u>
7					
8					
9	Producer Gas Holder				
10	Greenpoint Works (1)	1	Western Gas Construction Co.	1928	40,000
11					
12					
13					
14					
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28					
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(1) Previously reported as 1927 - should have been 1928.

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity Each (e)	Total (f)
1	Tar Tanks:					
2	Greenpoint Works	1	Bartlett Hayward Company	1927	400,000	400,000
3	"	1	"	1933	300,000	300,000
4	"	2	Koppers Construction Company	1928	10,000	20,000
5	"	1	"	1928	550,000	550,000
6	Citizens Works	2	"	1895	27,100	54,200
7	"	2	Prior to	1895	118,000	236,000
8	"	1	Unknown	1933	300,000	300,000
9	"	2	Bartlett Hayward Company	1933	230,000	230,000
10	Williamsburgh Works	1	Logan Iron Works	1892	6,477	12,954
11	"	2	C. L. Rowland	1892	158,600	158,600
12		<u>14</u>				<u>2,261,734</u>
13						
14						
15	Oil Tanks:					
16	Greenpoint Works	2	Bartlett Hayward Company	1927	1,000,000	2,000,000
17	"	2	United Eng. & Const. Co.	1932	4,500	9,000
18	"	1	Unknown	1932	6,000	6,000
19	Citizens Works	1	Bartlett Hayward Company	1903	250,000	250,000
20	"	1	"	1905	440,000	440,000
21	"	1	"	1916	685,000	685,000
22	"	1	"	1894	341,000	341,000
23	Williamsburgh Works	1	W. H. Childs	1905	282,000	282,000
24	"	1	C. Cunningham Company	1916	685,236	685,236
25	"	1	Bartlett Hayward Company	1921	20,000	100,000
26	"	5	"			
27		<u>16</u>				<u>4,798,236</u>
28						
29						
30						
31	Separators:					
32	Greenpoint Works	2	Bartlett Hayward Company	1927	269,000	538,000
33	"	1	"	1927	81,900	81,900
34	"	2	Koppers Construction Company	1928	54,300	108,600
35	"	1	Unknown	1930	20,000	20,000
36	Citizens Works	1	Bartlett Hayward Company	1920	37,500	37,500
37	"	1	"	1935	1,200	1,200
38	"	1	Unknown	1903	21,000	21,000
39	"	1	Bartlett Hayward Company	1933	283,000	283,000
40	Williamsburgh Works	1	Prior to	1895	11,468	11,468
41	"	1	"	1895	5,640	5,640
42	"	1	"	"	5,922	5,922
43	"	1	"	1895	21,807	21,807
44	"	2	C. Cunningham Company	1922	No Rating	-
45	"	2	Bartlett Hayward Company	1909	"	-
46	"	1	C. Cunningham Company	1923	"	-
47	"	1	Unknown	1868	"	-
48		<u>18</u>				<u>1,136,037</u>
49						
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Note: - Number (1) - (10) in parentheses are reference to explanations given on sheet 412 a.5

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)

Spent & Drip Oil Storage:

1	Greenpoint Works (11)	2	Koppers Construction Company	1928	7,500	15,000
2	Citizens Works	3	Unknown	1889	12,000	36,000
3	"	1	"	1893	50,000	50,000
4	"	1	Bartlett Hayward Company	1918	10,000	10,000
5	"	1	Unknown	1881	12,000	12,000
6	"	1	"	1889	12,000	12,000
7	" (12)	1	Bartlett Hayward Company	1918	20,000	20,000
8	" (13)	1	Unknown	1931	1,480	1,480
9	Williamsburgh Works	1	Unknown			
10		<u>11</u>				<u>156,480</u>

Tar Distillate & Emulsion:

14	Citizens Works (15)	4	Bartlett Hayward Company	1918	20,000	80,000
15	"	2	"	1918	10,000	20,000
16	"	1	Unknown	1889	1,000,000	1,000,000
17						
18		<u>7</u>				<u>1,100,000</u>

Collecting & Receiving:

22	Greenpoint Works (14)	1	Buffalo Tank Corporation	1937	30,000	30,000
23	" (15)	6	Unknown	1927	No Rating	-
24	"	2	Ingersoll-Rand	1928	"	-
25	" (16)	5	Unknown	1929	"	-
26	" (17)	4	"	1928	"	-
27	"	1	"	1932	"	-
28	"	1	Koppers Construction Company	1928	"	-
29	Citizens Works	1	Unknown	1925	81	81
30	"	1	Bartlett Hayward Company	1923	No Rating	-
31	Williamsburgh Works (18)	1	Unknown	1908	100	100
32	"	1	"	1911	58	58
33	"	1	"	1931	No Rating	-
34						
35		<u>25</u>				<u>30,239</u>

Miscellaneous Tanks:

39	Greenpoint Works (19)	2	Bartlett Hayward Company	1928	40,000	80,000
40	"	6	"	1927	45,800	274,800
41	" (20)	1	Allen-Sherman-Hoff	1927	50	50
42	"	1	Ritter Conley Mfg. Company	1928	12,000	12,000
43	"	1	Koppers Construction Company	1928	260,000	260,000
44	"	5	"	1928	20,000	100,000
45	" (21)	1	"	1928	240	240
46	"	1	Unknown	1932	2,000	2,000
47	" (22)	1	Ingersoll-Rand	1930	2,600	2,600
48	"	1	"	1928	650	650
49	"	1	Unknown	1930	1,000	2,000
50	" (23)	2	Bartlett Hayward Company	1927	No Rating	-
51	" (28)	6	Unknown	1927	"	-
52	"	6	"	1928	"	-
53	" (24)	17	Koppers Construction Company	1928	"	-
54	" (25)	10	"	1928	"	-
55						
56						

Note: Numbers (11) - (25) are in parentheses as reference to explanation given on sheet 412 d.

Supplement to Schedule 419 Page 412

419 Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Miscellaneous Tanks (Cont'd.)					
2	Greenpoint Works (26)	1	Koppers Construction Company	1928	2,000	2,000
3	" (27)	1	"	1928	4,000	4,000
4	"	3	Unknown	1930	No Rating	-
5	"	3	"	1928	"	-
6	" (28)	1	Bartlett Hayward Company	1928	"	-
7	"	2	Smoot Engineering Company	1931	"	-
8	"	2	Brooklyn Union Gas Company	1930	120	960
9	"	8	Unknown	1937	No Rating	-
10	"	6	Brooklyn Union Gas Company	1927	"	-
11	" (29)	1	Bartlett Hayward Company	1928	"	-
12	" (30)	1	Unknown	1918	10,000	10,000
13	" (31)	1	Bartlett Hayward Company	1921	52	52
14	Citizens Works	1	Unknown	1870	60,000	60,000
15	"	1	"	1922	120	120
16	"	1	"	1921	No Rating	-
17	"	4	"	1930	"	-
18	"	1	Connersville Blower Company	1930	"	-
19	"	2	Unknown	1913	"	-
20	"	4	"	1927	"	-
21	"	1	"	1923	"	-
22	"	3	"	1924	"	-
23	"	3	"	1934	"	-
24	"	1	Brooklyn Union Gas Company	1931	940	940
25	Willemsburgh Works	1	Unknown	1911	No Rating	-
26	" (32)	1	"	1916	"	-
27	" (33)	2	Bartlett Hayward Company	1927	23,000	23,000
28	"	1	Dorr Company	1927	366	366
29	"	1	Unknown	1916	53	53
30	"	1	C. Cunningham Company	1923	No Rating	-
31	" (35)	2	"	1909	"	-
32	"	1	Unknown	1924	"	-
33	"	1	"	1923	"	-
34	"	1	New England Tank & Tower Co.	1927	"	-
35	"	1	Dorr Company	1927	"	-
36	"	1	United Filter Company	1927	"	-
37	"	1	Brooklyn Union Gas Company	1923	"	-
38	"	1	Unknown	1909	"	-
39	" (34)	1	C. Cunningham Company	1925	"	-
40	" (35)	2	Curtis Pneumatic Mech. Co.	1925	"	-
41	"	1	Unknown	1908	"	-
42	" (36)	1	"	1923	120	120
43	"	1	"	1894	No Rating	-
44	Sojoles Street Station	1	"	1929	"	-
45	"	1	Automotive Primer Company	1908	50	200
46	Belmont Avenue Station	4	Unknown	1925	1,156	1,156
47	Wylthe Avenue Station	1	"	1925	45	45
48	"	1	"	1924	120	240
49	"	2	"	1911	No Rating	-
50	"	1	"	1912	"	-
51	" (37)	1	"	1923	"	-
52	"	1	Brooklyn Union Gas Company	1923	"	-
53	"	1	Unknown	1931	"	-
54	"	1	Unknown	1931	"	-
55						
56						

Notes: Number (36) (37) in parentheses are references to supplementary pages in plant report 412-412-45.

419. Auxiliary Apparatus at Manufactured Gas Plants - Tanks

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year Installed (d)	Capacity Each (e)	Total (f)
1	Miscellaneous Tanks(Cont'd.)					
2	Wythe Avenue Station(38)	1	Brooklyn Union Gas Company	1937	50	50
3	Front Street Station	2	Unknown	1900	55	110
4	"	(39) 1	"	1897	423	423
5	"	1	"	1867	500	500
6	"	1	"	1931	No Rating	-
7	Maspeth Avenue Station	7	Bartlett Hayward Company	1927	600	4,200
8	"	(40) 1	"	1927	9,800	9,800
9	"	(41) 1	Unknown	1927	255.5	255.5
10	"	(42) 1	Codemar Engineering Company	1927	282	282
11	"	1	L. O. Koven Bros.	1930	2,500	2,500
12	"	2	Walters Construction Company	1933	550	1,100
13	"	(43) 1	Brooklyn Union Gas Company	1927	1,128	1,128
14	"	1	"	1928	No Rating	-
15	"	1	Unknown	1928	"	-
16	"	(44) 1	Bartlett Hayward Company	1929	"	-
17	"	1	Brooklyn Union Gas Company	1932	"	-
18	"	(45) 1	Unknown	1927	"	-
19	"	(46) 1	Bartlett Hayward Company	1930	300	300
20	"	7	Unknown	1934	100	700
21	"	(47) 1	"	1936	No Rating	-
22	Flatbush Holder Station	1	Hauk Manufacturing Company	1927	12	12
23	"	1	Unknown	1902	2,380	2,380
24	"	8	"	1929	50	400
25	"	1	S. F. Bowser Inc.	1910	No Rating	-
26	"	1	Unknown	1933	"	-
27	"	6	Buckeye Engineering Co.	1910	"	-
28	"	7	Unknown	1924	"	-
29	"	(48) 4	"	1910	"	-
30	"	(49) 4	"	1909	"	-
31	Twelfth Street Station	1	Bartlett Hayward Company	1924	6,500	6,500
32	"	(50) 2	S. F. Bowser Inc.	1924	120	240
33	"	1	Unknown	1931	No Rating	-
34	"	1	"	1921	"	-
35	"	(51) 1	Burt Manufacturing Company	1911	"	-
36	Newtown Station	(52) 2	Unknown	1924	120	240
37	"	1	"	1930	50	50
38	"	1	"	1925	50	50
39	"	1	Hauk Manufacturing Company	1927	12	12
40	"	14	Unknown	1912	No Rating	-
41	"	7	"	1933	"	-
42	"	10	"	1924	"	-
43	"	4	Brooklyn Union Gas Company	1931	"	-
44						
45						
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263

869,926.5

Note: Numbers (38-52) in parentheses are references to specifications given on sheet 41205.

Line No.

(1)	Previously reported as 1898 - should have been Prior to 1895.
(2)	" " capacity as 100,000 gal. each - should have been 118,000 gal. each.
(3)	" " as 1933 - should have been 1932.
(4)	" " as 1918 - " " 1921.
(5)	" " as 1929 - " " 1930.
(6)	" " as Bartlett Hayward Co. - should have been Unknown.
(7)	" " as 1896 - should have been Prior to 1895.
(8)	" " as 1910 - " " 1895.
(9)	" " as 1910 - " " 1895.
(10)	" " as 1896 - " " 1868.
(11)	" " as 1929 - " " 1928.
(12)	" " as a tar tank - should have been a Drip Oil Tank.
(13)	" " as a tar distillate tank - now used as a Spent Oil Tank.
(14)	Tank made by Koppers Construction Co. was retired in 1937 and replaced with tank made by Buffalo Tank Corp.
(15)	One (1) tank previously reported as no date - should have been 1927 and one (1) Tank, previously reported as 1928 - should have been 1927.
(16)	Three (3) tanks previously reported as 1928 - should have been 1929.
(17)	One (1) tank previously reported as no date - should have been 1928.
(18)	Previously reported as no date - should have been 1908.
(19)	" " 1927 - " " 1928.
(20)	" " 1931 - " " 1927.
(21)	" " 4,000 gal. capacity - should have been 240 gal.
(22)	" " 1933 - should have been 1930.
(23)	" " 1933 - " " 1930.
(24)	One (1) tank previously reported as no date - should have been 1928.
(25)	One (1) tank retired in 1936.
(26)	Previously reported as no rating - should have been 2,000 gal.
(27)	" " " " - " " 4,000 "
(28)	One (1) tank previously reported as 1928 - should have been 1927.
(29)	Addition in 1937.
(30)	Previously reported as an oil tank - 1928 - should have been a miscellaneous tank-1937.
(31)	" " " " - " " " " " "
(32)	" " 60 gal. capacity - " " " no Rating.
(33)	" " 60 " " - 1911-" " " - 1916.
(34)	" " 1917 - should have been 1909.
(35)	One (1) tank previously reported as 1923 - should have been 1925.
(36)	Previously reported as no date - should have been 1908.
(37)	" " 1922 - " " 1912.
(38)	Addition in 1937.
(39)	Previously reported as 1896 - should have been 1897.
(40)	" " 1926 - " " 1927.
(41)	" " 1926 - " " 1927.
(42)	" " 1926 - " " 1927.
(43)	" " 1926 - " " 1927.
(44)	" " 1928 - " " 1927.
(45)	" " 1928 - " " 1929.
(46)	" " 1926 - " " 1927.
(47)	1936 addition - not previously reported.
(48)	Two (2) tanks previously reported as 1927 - should have been 1910.
(49)	Previously reported as 1910 - should have been 1909.
(50)	" " no rating - should have been 130 gal. each.
(51)	" " unknown - " " Burt Manufacturing Co.
(52)	" " 1930 - " " 1924.

419. Auxiliary Apparatus at Manufactured Gas Plants - Steam Engines

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity Each (e)	Total (f)
1	Citizens Works	1	Lidgerwood Mfg. Co.	1924	No rating	-
2	"	1	Greenfield Engine Co.	1908	8	8
3	"	1	Buckeye Engine Co.	1908	125	125
4	"	1	"	1911	360	360
5	"	1	"	1905	150	150
6	"	1	"	1918	150	150
7	"	1	"	1921	318	318
8	"	1	Rawson & Morrison Mfg. Co.	1905	25	25
9	"	1	Greenfield Engine Co.	1920	10	10
10	"	1	Harrisburg Fdry & Mach. Wks.	1926	120	120
11	"	1	"	1922	306	306
12	"	1	Godfrey Keeler Co.	1922	20	20
13	"	1	Mead Morrison Mfg. Co.	1922	75	75
14	"	1	Terry Turbine	1918	185	185
15	"	3	B. F. Sturtevant Co.	1920	200	600
16	"	1	"	1921	200	200
17	"	2	Terry Turbine Co.	1921	80	160
18	"	5	"	1923	412	2,060
19	"	1	Alberger Pump & Condenser Co.	1923	80	80
20	"	6	"	1923	40	240
21	"	3	Terry Turbine Co.	1921	50	150
22	"	1	General Electric Co.	1930	335	335
23	Williamsburgh Works	3	Alberger Pump & Condenser Co.	1925	57½	172½
24	"	5	Buckeye Engine Co.	1908	150	450
25	"	1	"	1920	150	150
26	"	1	Mead Morrison Mfg. Co.	1926	55	55
27	"	5	Alberger Pump & Condenser Co.	1923	71	213
28	"	3	"	1923	43	129
29	"	1	General Electric Co.	1925	20	20
30	"	3	"	1926	45	135
31	"	1	Mead Morrison Mfg. Co.	1926	36	36
32	"	1	B. F. Sturtevant Co.	1918	185	185
33	"	2	"	1917	185	370
34	"	1	"	1921	185	185
35	"	2	"	1917	300	600
36	"	3	Terry Turbine Co.	1918	185	555
37	"	1	B. F. Sturtevant Co.	1927	185	185
38	Greenpoint Works	1	(1) B. F. Sturtevant Co.	1927	6	6
39	"	1	(2) Standard Turbine Corp.	1927	6	6
40	"	5	(3) Murray Iron Works	1927	184	552
41	"	2	Harrisburg Fdry & Mach. Wks.	1927	No rating	-
42	"	3	Troy Engine & Mach. Co.	1927	"	-
43	"	1	Clatsop Fan Co.	1927	"	-
44	"	1	Dake Engine Co.	1928	5	5
45	"	1	"	1928	3	3
46	"	2	"	1928	7	14
47	"	2	General Electric Co.	1927	No rating	-
48	"	3	B. F. Sturtevant Co.	1927	36	180
49	"	3	"	1927	28	84
50	"	3	General Electric Co.	1928	547	1,641
51	"	3	"	1928	148½	445½
52	"	1	"	1928	79½	233½
53	"	1	Standard Turbine Co.	1927	12	12
54	"	6	B. F. Sturtevant Co.	1927	350	2,100
55	"	3	"	1927	110	330
56	"	3	"	1927	18	54
57	"	3	"	1927	50	150

Supplement to Schedule 419 Page 412

419. Auxiliary Apparatus at Manufactured Gas Plants - Steam Engines (Continued)

Line No.	Designation of plant or station (a)	Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity	
					Each (e)	Total (f)
1	Greenpoint Works (Cont'd.)	3	B. F. Sturtevant Co.	1927	75	225
2	" "	1	" " " "	1927	163	163
3	" "	1	" " " "	1927	121	121
4	" "	1	Terry Turbine Co.	1931	10	10
5	" "	1	" " " "	1928	80	80
6	" "	1	" " " "	1928	100	100
7	" "	1	(5) B. F. Sturtevant Co.	1932	50	50
8	Twelfth Street Station	1	Mead Morrison Mfg. Co.	1923	75	75
9	" " "	2	Buckeye Engine Co.	1911	330	660
10	" " "	1	" " " "	1921	330	330
11	" " "	1	B. F. Sturtevant Co.	1912	45	45
12	Wythe Avenue Station	2	Buckeye Engine Co.	1911	410	820
13	" " "	1	(6) Harrisburg-Buckeye	1922	410	410
14	" " "	1	(7) " " "	1923	410	410
15	Belmont Avenue Station	2	N. Y. Safety Steam Power Co.	1903	50	100
16	Front Street Station	1	Nagle Engine & Boiler Wks.	1900	50	50
17	Scholes Street Station	1	Erie City Iron Works	1900	150	150
18						
19		<u>136</u>				<u>18,324</u>
20						
21						
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- (1) 1937 Addition
 (2) Previously reported as Murray Iron Works
 (3) Name of one (1) changed to Standard Turbine Corp.
 (4) Previously reported four (4). One (1) changed to 1932
 (5) " " as 1927 - should have been 1932
 (6) Previously reported as Buckeye Engine Co.
 (7) " " " Harrisburg Fdry. & Mach. Wks.
 (6&7) Both of these were originally purchased from Buckeye, but were remodeled & rebuilt by Harrisburg.

511 - Production Expenses - and Gas Manufactured, by Stations - Water Gas

Line	Citizens Works (b) c.	Greenpoint Works (c) c.	Reserve Costs (d) c.	General Production Expenses (e) c.	Holder Station (f) c.	Total Production Expenses-Water Gas (2) (g) c.
1	Coal gas produced, M. cu.ft.	-	-	-	-	-
2	Water gas produced, M. cu.ft.	5,725,572	7,049,374	-	-	12,774,946
3	Gas produced, M. cu.ft. Coke oven Gas	-	-	-	-	(2)
4	Total gas produced, M. cu.ft.	5,725,572	7,049,374	-	-	(2)
5	Maximum 24-hr. make, M. cu.ft. (with date)	26,737 2/2	30,921	-	-	12/13 54,062
6	Average daily make, M. cu.ft.	15,773 365 days	19,313	-	-	35,000

Footnotes for page 508 a-1:

(1) This item cannot be allocated to any of the preceding columns.

(2) See insert page 508-b for figures relating to coke oven gas and grand total production.
All the figures in column (g) relate to water gas.

511. Production Expenses and Gas Manufactured by Stations
Greenpoint Works - Coke Oven Gas Plant

Line No.	Item (a)	\$ (b)	\$ (c)	Total production expenses - coke oven gas (d)
1	Gross cost:			
2	Production labor			426,339.96
3	Production materials:			
4	Materials shown in Schedule 512	4,414,142.86		4,679,563.25
5	Other production materials	265,420.39		287,995.86
6	Maintenance costs			
7	Total gross cost			5,393,899.07
8				
9				
10	Residuals produced:			
11	Coke	5,684,540.55		
12	Oven gas tar	256,254.54		
13	Sulphate of ammonia	219,151.02		
14	Naphthalene	8,208.97		
15	Total residuals produced	4,168,155.08		
16				
17	Residuals expense:			
18	Coke	89,066.84		
19	*Other residuals	130,624.75		
20				
21	Total residuals expense		219,691.59	
22				
23	Net credit for residuals			3,948,463.49
24				
25	Duplicate production charges - credit			362.52
26				
27	Net cost of coke oven gas made			1,445,073.06
28				
29	Coke oven gas produced - M. cu. ft.			8,524,377
30	Maximum 24 hour make - M. cu. ft. (with date)	Sept. 25th		24,870
31	Average daily make - M. cu. ft. (365 days)			23,354
32				
33	Total gas produced - water gas and coke oven gas - M. cu. ft.			21,299,323
34	Maximum 24 hour make - M. cu. ft. (with date)	December 13th		77,690
35	Average daily make - M. cu. ft.			58,354
36				
37				
38	*Materials shown in Schedule 512			69,817.52
39	Other residuals expense			60,807.23
40	Total			130,624.75
41				
42				
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513. STATION RECORDS AND QUALITY OF OUTPUT—GAS.

Continuing the same columnar arrangement as in schedule 511, show the requested information regarding production of gas in each station. Each manufactured and natural gas company should give information requested, lines 30 to 33, inclusive.

No.	Designation of station	Item (a)	Citizens Works (Water Gas Plant) (b)	Greenpoint Works (Water Gas Plant) (c)	Greenpoint Works (Coke Oven Plant) (d)	Reserve (e)	(f)	Totals (g)
1	Gas coal: Bituminous carbonized (short tons)				748,193.20			748,193.20
2	Yield, gas per lb. coal (cu. ft.)				5.70			5.70
3	Average number retorts or ovens in action				90			90
4	Average charge per retort or oven (lbs.)				26,786			26,786
5	Average period of carbonization (hrs.)				13.85			13.85
6	Average make per retort or oven per day (cu. ft.)				259,494			259,494
7	Coke: Short tons produced				585,250.50			585,250.50
8	Coke: Ratio per short ton of coal carb. (1.7 ÷ 1.1)				78.22			78.22
9	Coke gas tar: Gallons produced				5,990,946			5,990,946
10	Coke gas tar: Gallons per short ton of coal carb. (1.9 ÷ 1.1)				8.01			8.01
11	Coke Producer gas fuel: Coke (short tons)				103,315.00			103,315.00
12	Coal (short tons)				-			-
13	Producer gas or returned gas—M cu. ft.				-			-
14	Boiler fuel: Average number boilers		3	4	6	1		14
15	Solid fuel (short tons)		11,265.96	21,026.23				32,292.19
16	Tar or oil used (gals.)		2,657,198	376,874				3,034,072
17	Lbs. fuel (solid or liquid) per M cu. ft. made	(1)	8.64	8.41				8.51
18	Generators: Average number in use		3	2	-	-		5
19	Total square feet of grate surface	(2)	204	136	-	-		340
20	Make (hourly) per sq. ft. of grate surface (cu. ft.)	(3)	3,799	6,124	-	-		4,806
21	Generator fuel per M made (lbs.)		22.33	15.91				18.79
22	Gas oil: Gallons used for carburetting blue water gas		20,361,114	7,487,452				27,848,566
23	Water gas tar yield in % of gals. of gas oil		22.69	(4) -	-	-	(4) -	-
24	Gallons per M made		3.56	1.06				2.18
25	Average cost per gallon, cents and hundredths		3.71	4.33				3.88
26	Gas purified: Bu. oxide		115,200	49,080	230,796			395,076
27	Cu. ft. gas gas per bu.				36,935			36,935
28	Cu. ft. water gas per bu.		49,701	143,630				77,763
29	Cu. ft. mixed gas per bu.							53,912
30	Heating value of gas: B. t. u. maximum day		551	535	575	-		-
31	Minimum day		539	468	554	-		-
32	Average for year		545	511	569	-		543
33	Specific gravity (to nearest hundredth of a per cent)		.67	.78	.38	-		-

Show the particulars called for concerning residuals in stock and those produced and those disposed of during the year.

514. RESIDUALS.

No.	Item (a)	Coke, tons (b)	Coke gas tar, gals. (c)	Water gas tar, gals. (d)	Ammoniacal liquor, gals. (e)	Carbon, lbs. (f)	Drip oil, gals. (g)	Other residuals (specify)			(j)
								Sulphate of Ammonia Net Tons	Naphthalene Pounds		
41	On hand at beginning of year	86,321.18	155,000	518,512			30,646	1,268.86	-		
42	Made during year	585,250.50	5,990,946	5,694,020			606,407	9,050.30	476,360		
43	Used during year	(7) 256,230.00	-	3,209,779			-	-	-		
44	Sold during year	343,608.38	5,954,946	2,563,532			579,924	10,072.77	476,360		
45	On hand at end of year	71,733.30	191,000	439,221			57,129	246.39	-		
46	Credits on account of residuals produced *	\$3,684,540	\$ 256,254	\$ 221,219	\$ 58,202	\$ 41,219	\$ 151,028	\$ 8,208	\$ 97		
47	Residuals expense	89,066	(5) -	6,903	16						
48	Receipts from sales	2,082,956	43	116,946	95		54,780	37,339	982	82	8,208 97
49	Average selling price	6.0620	.0427	.0456			.0945	23.8249	.0172		

* Through account No. 713 under the system prescribed in case 746 or accounts Nos. 708.1 and 718 under the system prescribed in case 784.3.

Green ink corrections by P. S. C. ACCOUNTING DIVISION
Authorized by letter dated 12/12/37. Clerk, J. H. M.

ELECTRIC, GAS, AND NATURAL GAS CORPORATIONS

Report for the Year Ended December 31, 1937

Notes on: Schedule 513. Station Records and Quality of Output - Gas
and " 514. Residuals

Line 17 :
(1) The equivalent solid boiler fuel is calculated on the ratio of evaporation of solid to liquid-fired boilers. These figures for the year 1937 were as follows:

	Pounds per M		Equivalent	
	Liquid boiler fuel (a)	Solid boiler fuel (b)	solid boiler fuel (c)	Ratio (d)
Works				
Citizens	4.69	3.95	11.36	1.58
Greenpoint	.71	7.70	8.81	1.57
Average	2.49	6.02	9.95	1.58

$$(a \times d + b = c)$$

Note: The weight of a gallon of tar averages 10 pounds.

Line 19 :
(2) Grate surface of one generator multiplied by average number of generators in use.

Line 20 :
(3) The basis of the figures on this line is as follows:

	Gas made (M.cu.ft.)	Total hours running	Average make per running hour (cu.ft.)	Grate area per machine (sq.ft.)	Hourly make per sq. ft. of grate area (cu.ft.)
Works					
Citizens	5,725,572	22,162	258,351	68	3,799
Greenpoint	7,049,374	16,929	416,408	68	6,124
Totals	<u>12,774,946</u>	<u>39,091</u>			
Averages			326,800	68	4,806

Line 23 :
(4) It is not feasible to report this figure for the Greenpoint Works for the reason that this plant used both gas oil and refinery gas for enrichment purposes, both of which enriching agents produce tar.

Line 47 :
(5) Residuals expense on oven gas tar and sulphate cannot be separately stated.

Column (E)
(6) Includes tar oil.

Column (E) § 514

(7) Includes coke transported to other plants

Column (E) § 513

(8) W. McDonaldburg Works was a reserve plant during the year 1937.

1. Show hereunder a summary of gas produced and purchased, and sold or otherwise disposed of. If systems are not fully interconnected, append a statement giving for each

2. State all quantities of gas in M cu. ft.

516. **Average** is a word or **Measuring Scale** that shows between the average number of months by which students during the year to go on summer classifying them in accordance with the criterion in column (3).

Line No	Kind of gas	Gas produced and purchased, M cu. ft.				Kind of gas	Gas sold or otherwise disposed of, M cu. ft.					Class	Average number
	Item (a)	Water gas	Coke oven gas	Total		Item (c)	(f)	(g)	(h)	(i)		(j)	
1	On hand at beginning of year			61,565		Sold to affiliated companies					Residential	691,109	
2	Produced during year	12,774,946	8,524,377	21,299,323		Other sales					Commercial	42,282	
3	Purchased from affiliated companies			-		Transferred to affiliated companies					Industrial	3,394	
4	Purchased from other than affiliated companies			-		Del'd under agency agreements					Municipal	650	
5	Received under agency agreements			-		Supplied without direct charge					Other public service corporations		
6	Transferred from affiliated companies			-		Used by respondent					Total	737,435	
7	Total available for distribution			21,360,888		Lost and unaccounted for							
8	Maximum hourly send-out in M cu. ft.			8,013		On hand at end of year							
9	Date and hour of its occurrence	November 25, 1937	11AM-12Noon		Totals	Unaccounted for gas per mile of equivalent gas in							
10												104	
11	Maximum daily send-out, M cu. ft.	January 66,538	February 75,299	March 77,276	April 66,856	May 64,909	June 60,054	July 55,576	August 52,226	September 65,910	October 70,482	November 75,214	December 77,148

517. SALES BY MUNICIPALITIES—ARTIFICIAL OR NATURAL GAS.

1. Show the requested information concerning each city, village, or town in which respondent rendered service at any time during the year. If service is restricted to a portion of a city, designate the boroughs or distribution districts covered by respondent's operations.
2. If two or more municipalities are treated as a district, list in an attached memorandum the names of the several municipalities so grouped, with reference to the date of the controlling order of the Public Service Commission.
3. Account titles in column (a) are those contained in the Uniform System of Accounts prescribed in case 71843.
4. Revenues may be shown to the nearest dollar only.
5. Append hereto a statement showing for each such municipality or district the number of M. C. R. sold and revenue therefrom subdivided by service classifications in effect at any time during the year.

Line No.	Designation of municipality†	Item (a)	Number of active consumers* (b)	Sales in M cu ft. (c)	Revenue during year (d)	Number of active consumers* (e)	Sales in M cu ft. (f)	Revenue during year (g)	Number of active consumers* (h)	Sales in M cu ft. (i)	Revenue during year (j)
21	601 Residential sales	See insert page 511 a			†			†			
22	602 Commercial sales										
23	603 Industrial sales										
24	604 Public street lighting										
25	605 Other sales to public authorities										
26	606 Sales to other distributors										
27	Totals										
28	Designation of municipality†										
29	601 Residential sales										
30	602 Commercial sales										
31	603 Industrial sales										
32	604 Public street lighting										
33	605 Other sales to public authorities										
34	606 Sales to other distributors										
35	Totals										
36	Designation of municipality†										
37	601 Residential sales										
38	602 Commercial sales										
39	603 Industrial sales										
40	604 Public street lighting										
41	605 Other sales to public authorities										
42	606 Sales to other distributors										
43	Totals										
44	Designation of municipality†										
45	601 Residential sales										
46	602 Commercial sales										
47	603 Industrial sales										
48	604 Public street lighting										
49	605 Other sales to public authorities										
50	606 Sales to other distributors										
51	Totals										
52	Designation of municipality†										
53	601 Residential sales										
54	602 Commercial sales										
55	603 Industrial sales										
56	604 Public street lighting										
57	605 Other sales to public authorities										
58	606 Sales to other distributors										
59	Totals										
60	Designation of municipality†										
61	601 Residential sales										
62	602 Commercial sales										
63	603 Industrial sales										
64	604 Public street lighting										
65	605 Other sales to public authorities										
66	606 Sales to other distributors										
67	Totals										
68	Designation of municipality†										
69	601 Residential sales										
70	602 Commercial sales										
71	603 Industrial sales										
72	604 Public street lighting										
73	605 Other sales to public authorities										
74	606 Sales to other distributors										
75	Totals										
76	Designation of municipality†										
77	601 Residential sales										
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82	606 Sales to other distributors										
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218	606 Sales to other distributors										
219	Totals										
220	Designation of municipality†										

523:12-a Important Units of Plant and Equipment Installed During the Year

Line No.	Location and description (a)	Book Cost \$ (b)
1	Greenpoint Works:	
2	Brakes on Coal and Coke Bridge trolley	3,644.51
3	Conveyor Belt	2,047.02
4	Ammonia Collecting tank	2,376.04
5	1 - Pittsburgh Transformer	1,132.65
6	2 - Coal Buckets	8,600.00
7		<u>17,800.22</u>
8		
9	Citizens Works:	
10	Equipment for removal of liquid phase	
11	gum forming materials	
12		<u>4,711.21</u>
13	Williamsburgh Works:	
14	Sturtevant Blower and Turbine	
15		<u>4,526.11</u>
16	Twelfth Street Station:	
17	1 - Coal Hopper	
18		<u>3,626.28</u>
19	Newtown Station:	
20	2 - Connersville Exhausters	
21		<u>17,442.77</u>
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		

523:12-b Important Units of Plant and Equipment Withdrawn During the Year

	Location and description (a)	Book Cost \$ (b)
1	Gas Service Station:	
2	Sale of Land	<u>143,090.44</u>
3		
4	Williamsburgh Works:	
5	1 - Elevator	<u>3,824.72</u>
6		
7	Greenpoint Works:	
8	Galvanized iron sheeting from gallery roof	926.64
9	6 - Westinghouse brakes - Coal and Coke	3,900.00
10	1 - Smoot air operated stock draft regulator	1,176.83
11	Lagging from 18 Purifier Boxes	5,760.00
12	1 - Conveyor Belt - 308' long	1,908.05
13	1 - 30,000 gallon Ammonia collecting tank	2,076.76
14	1 - 270 cu. ft. Brown Hoist Bucket	5,912.50
15		<u>21,660.78</u>
16	Citizens Works:	
17	6 - Bustle pipes on Sets #5 to #10 inclusive	7,864.68
18	Lagging from 4 Purifier Boxes	1,280.00
19		<u>9,144.68</u>
20	Newtown Station:	
21	Cost of installation of 2 Connersville Exhausters	<u>1,122.75</u>
22		
23		
24		
25		
26		
27		

ELECTRIC CORPORATIONS
MANUFACTURED GAS CORPORATIONS } CLASSES A AND B
NATURAL GAS CORPORATIONS

ORIGINAL
YEAR ENDED
DECEMBER 31, 1938

Report of **The Brooklyn Union Gas Company,**
(Give in full the exact corporate, firm, or individual name of the respondent, paying regard to the distinction between the words company and corporation)

Located at **176 Remsen Street, Brooklyn, N. Y.**
(Here give the location, including street and number, of the respondent's main business office, within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1938

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 1, 1939

105. CONTROL

1. Show the requested information concerning members of the respondent who at the date of the latest closing of the stock book prior to the actual filing of this report held one or more of the voting capital stock of the respondent. If the stockbook was not closed within one year, show such members as of the end of the year.

2. If voting power was not in proportion to the number of shares held, give full details that fact.

3. Apportion hereto as a permanent part of the report a certified copy of the agreement or other instrument under which any voting capital stock of the respondent is held if such documents are on file with the reporting corporation; if they are not on file, state that fact.

Dec. 31, 1938

Name of member	Address of member	No.	Number of voting shares held (class)			Other securities with voting power
			Common	Preferred	Second	
			(a)	(b)	(c)	(d)

1 Koppers Company
2 Koppers Company
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F.O. Box 551,
Wilmington, Del.
do.
do.
Chrysler Building,
34th St., N.Y. City
8,948
50,000
57,940
70,000

INQUIRY 2. No record or knowledge of any transfer of stock or securities

418. Gas Plants - Manufactured Gas

plant	Location of plant (including street and No.) (b)	Rated 24-hour capacity M. cu.ft. (c) <i>φ</i>	Number of ovens or benches (d)
lant: ks	Maspeth and Varick Avenues, Brooklyn, N. Y.	24,000	2 batteries, each containing 45 ovens, total 90 ovens.
	(g)	(h)	Number of water gas sets (i)
:	433 Hoyt Street, Brooklyn, N.Y.	36,000	10
ks	Maspeth and Varick Avenues Brooklyn, N. Y.	48,000	6
		<u>84,000</u>	<u>16</u>

φ Reported on a manufacturing capacity basis.

40. GAS PLANTS—MANUFACTURED GAS

1. Show the location and the description of each of the several manufactured gas plants in the service of the respondent at the end of the year. Give values, capacities, and details according to items requested in water gas and coal gas. The values in columns 101, 102, 103, and 104 should still be used. Show output capacity of each plant considering limitations on output imposed by existing facilities.

2. If any plant was shut in December under any title other than full capacity, give full particulars in a footnote.

Sheet No.	Location and description of plant	Number of units			2019 output capacity, Btu per lb.			
		Low Water	SWES	Steam	Water gas	Oil	Other processes (specify)	
		(101)	(102)	(103)	(104)	(105)	L.P. gas	High-pressure gas
1	433 East Street, Brooklyn, N.Y.							
2	Citizens Works	2 (1)	4	-	- (1)	34,000	-	-
3	Knappeth and Varick Avenues, Brooklyn, N.Y.							
4	Greenpoint Works	-	11	-	-	67,000	12,000 (2)	6,000
5	(1) Not converted to produce high B.t.u. gas which responded is now distributing throughout its entire territory.							
6	(2) Represents capacity for 5 to 6 days.							
7	Notes: The quantities shown above represent estimated daily peak production capacity.							

41. WATER GAS SETS. (See insert sheet 41a for particulars of oil gas sets)

Show December reported particulars of water gas sets located in water gas plants listed in schedule 40.

Sheet No.	Description of plant	Number of sets	Name of maker	Year installed	Water gas capacity, Btu per lb.	Notes
(106)	(107)	(108)	(109)	(110)	(111)	(112)
1	Citizens Works	2	Bariletti-Harward Co.	1904	60	-
2						
3						
4						
5						
6						
7	*See note (1), schedule 41a					

42. GAS HOLDERS

1. Show December reported particulars of gas holders in possession of respondent at the end of the year. 2. If any such sets were laid under any title other than full capacity, give full particulars in a footnote.

Sheet No.	Description of plant or station	Works and output				Notes		
		Number of units	Water in holder	Gas supplied	Capacity, cu. ft.	Number of units	Water in holder	Gas supplied
(113)	(114)	(115)	(116)	(117)	(118)	(119)	(120)	(121)
1	See insert sheet 41a							
2								
3								
4								
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129a. Oil Gas Data

1	Designation of plant (a)	Number of sets (b)	Name of maker (c)	Year installed (d)	15-hr. capacity, B. cu. ft. (e)
1	Citizens Works	2	Berkell-Bayward Co.	1906	7,000
2	" "	3	" " "	1921	13,500
3	" "	3	" " "	1924	13,500
4	Greenpoint Works	6	" " "	1927	30,000
5	" "	2	United Engineers & Const. Inc.	1946	14,800
6	" "	3	" " "	1948	22,200

* Year of original installation as water gas sets. All of the sets listed above were converted to oil gas sets in 1952.

513. Station Records-Gas

Details of Flow, Column (a)

	Citizens Works			Greenpoint Works		
	Mixed	High B.t.u.	Equivalent	Mixed	High B.t.u.	Equivalent
	<u>gas</u>	<u>gas</u>	<u>mixed gas</u>	<u>gas</u>	<u>gas</u>	<u>mixed gas</u>
produced, M. c. f. a						
oven	-	-	-	3,183,431	-	3,183,431
retorted water	(1)3,063,506	-	3,063,506	10,932,820	7,081	10,931,627
oil air refinery	-	22,128	43,032	-	212,073	433,985
field petroleum	-	-	-	-	13,450,432	896,583
total	<u>3,063,506</u>	<u>22,128</u>	<u>3,105,634</u>	<u>14,366,253</u>	<u>13,693</u>	<u>14,432,025</u>
per c. f. a						
oven	-	-	-	552	-	-
retorted water	538	-	-	538	673	-
oil air refinery	-	1,004	-	-	1,050	-
field petroleum	-	-	-	-	1,052	-
total gas made	<u>538</u>	<u>1,004</u>	<u>-</u>	<u>540</u>	<u>2,725</u>	<u>-</u>
hr. make in thermal						
oven	-	-	-	133,780	-	133,780
retorted water	327,017	-	327,017	677,127	-	677,127
total petroleum	-	-	-	1,052	-	1,052
	<u>327,017</u>	<u>-</u>	<u>327,017</u>	<u>811,959</u>	<u>-</u>	<u>811,959</u>

includes:	<u>B. c. f.</u>	<u>B. t. u. per c. f. a</u>
Natural gas reformed	1,370,362	1,052
Natural gas enricher	1,058,813	1,052

includes:	<u>B. c. f.</u>	<u>B. t. u. per c. f. a</u>
Natural gas reformed	1,807,314	1,052
Natural gas enricher	3,012,819	1,052
Producer gas	1,779,590	130

includes:	<u>B. c. f.</u>	<u>B. t. u. per c. f. a</u>
Natural gas	159,001	1,047
Refinery gas	171,356	1,025

	Mixed	High B.t.u.	Equivalent
	<u>gas</u>	<u>gas</u>	<u>mixed gas</u>
max. 24 hr. make in thermal:			
Citizens Works and Greenpoint Works	133,780	-	133,780
oven	966,773	-	966,773
retorted water	1,052	-	1,052
refined petroleum	<u>1,308,583</u>	<u>-</u>	<u>1,308,583</u>

1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808

referred to as *stated*, and any additional testimony is given under the *oath* (promised shall be shown under "Other evidence, as appropriate.") by submitting tracks of gas above the specific process (or specific tracks in case of *discovery* type) in its common usage, at least to the extent that such information is available.

When returned into our yard, at 600 1980 kind of gas, and directly to production process, which is no different from a regular return to the market.

Fig. 2. The effect of water level on the rate of sedimentation of organic matter in the water column.

100. GAS RESIDUALS

Show the required information concerning gas-making residuals produced and disposed of during the year.

Line No.	Fuel (a)	Quantities handled during year						Disposed in 2000 for sale or use	Residuals amount	Based on first sale		Residuals amount	
		Gals. (b)	Cu. feet or equivalent (c)	Mads. (d)	Bbls. (e)	Gals. (f)	Cu. feet or eq. (g)			1	2	1	2
1	Water and oil gas tar	Gal.	128,538	1,388,828	782,920	-	188,134	81,489.87	-	-	81,489.87	-	828
2	Crude and tar oil	Gal.	37,840	18,837	-	-	70,667	3,881.68	-	-	-	-	-
3	Coke	(1) Gal. or ton	21,188.38	242,613.20	201,888.88	33,188.80	11,814.08	1,041,884.58	121,888.88	1,041,884.58	1,041,884.58	1,041,884.58	1,041,884.58
4	Crude gas tar	Gal.	201,888	2,588,868	2,788,868	-	-	288,888.88	-	-	288,888.88	-	288
5	Sulfate of ammonia	Net ton	818.38	2,088,18	1,811.88	-	-	188,884.58	81,884.18	188,884.58	188,884.58	188,884.58	188,884.58
6	Barbitolene	Lb.	-	188,788	188,788	-	-	18,188.38	-	-	18,188.38	-	18
7	Motor fuel	Gal.	188,811	201,788	1,888,188	-	81,788	188,188.88	188,188.88	188,188.88	188,188.88	188,188.88	188,188.88
8	Residual distillate(2)	Gal.	1,888	3,888	-	1,888	-	81,788	188,188.88	-	-	-	-
9	Crude heavy solvent	Gal.	28,188	118,818	181,888	-	12,888	28,188.88	-	-	28,188.88	-	28
Total 2,888,888.88 2,888,888.88 2,888,888.88													

(1) Quantity sold, column (2) Includes 788.10 net tons returned

(2) Amount in column (1) represents residuals amount on Motor fuel, Residual distillate and Crude heavy solvent which cannot be stated separately

508. Important Changes During the Year

Expenditure 5-4
Important units of plant and equipment installed or permanently withdrawn from service during the year.

Location and Description	Cost
Installed	
William Works	
Additions and alterations to convert plant to high S.A.W. operation, including conversion of six water gas sets to oil gas sets, two 1,000,000 gallon oil storage tanks, part piping, reformulating equipment and associated equipment.	1,361,894.30
Longview Works	
Additions and alterations to convert plant to high S.A.W. operation, including conversion of eleven water gas sets to oil gas sets, two 1,000,000 gallon oil storage tanks, part piping, reformulating equipment and associated equipment.	1,361,894.30
Twelfth Street Station	
Additions to exhauster house, gas fired boiler, gas engine driven compressor and associated equipment.	121,024.30
Distribution System	
New mains and water and regulating facilities to supply natural gas to the Williamsburg Power Plant of the Board of Transportation, City of New York.	124,024.30
Approximately 1,000 feet of 12" main to extend 12" crossmain main from Johnson Avenue to North Avenue.	760,024.30
Approximately 1,000 feet of 30" main from end of existing 30" main in Flatbush Avenue at Avenue L, westerly on Flatbush Avenue, to 12" main in Flatbush Avenue at Flatbush Avenue.	124,024.30

Supplement to Schedule 300 Page 523

508. Important Changes During the Year

Inquiry A-4.

Important units of plant and equipment installed or permanently withdrawn from service during the 1957

	Location and Description	Cost
Withdrawn from service		
Twelfth Works		
	Portions of six water gas sets (converted to oil gas sets) associated apparatus and piping.	\$ 111,643.00
	Conveyors and associated coke handling equipment	333,743.00
Greenpoint Works		
	Portions of eleven water gas sets (converted to oil gas sets) associated apparatus and piping.	1,578,040.00
	Five waste heat boilers, lamp black scrubbers and associated apparatus and piping.	228,320.00
	Wetery coke ovens, quenching station, oven machinery and associated apparatus and piping.	1,833,323.00
	Breakers, hammermills, conveyors, fuel bridges and associated coal and coke handling equipment.	1,643,841.00
	Producer house and mechanical buildings, paving, sewers, yard lighting and electric distribution system in coke oven area.	717,494.00
	Gas producers and associated apparatus and piping	699,787.00
	Saturators, sulphate dryers and associated residual refining equipment and piping.	393,600.00
	Primary and final coolers and associated purification equipment and piping	289,843.00
	Yard piping	225,190.00
Note: All of the retirements shown above were on account of change over to High B.t.u. operation.		
Twelfth Export Station		
	Land, boiler house and stack transferred to Other Physical Property	143,733.00
	Three boilers and associated equipment (reported in 1951)	77,534.00
Park Slope Office		
	Land and improvements sold	137,569.00

ORIGINAL

ELECTRIC CORPORATIONS
MANUFACTURED GAS CORPORATIONS
NATURAL GAS CORPORATIONS

CLASSES A and B

YEAR ENDED
DECEMBER 31, 1953

Report of **The Brooklyn Union Gas Company**

Located at **176 Remsen Street Brooklyn 1, N.Y.**

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1953

THIS IS A VERIFIED REPORT
NOTATION IS MADE HEREIN
OR ANY OTHER MATTERS
MUST NOT BE MADE THEREIN

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 12, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

412. GAS PLANTS—MANUFACTURED GAS

1. Show the location and the designation of each of the several manufactured gas plants in the service of the community at the end of the year. For other purposes of manufacture, give details corresponding to those reported for water gas and coal gas. The column is sufficient for 10,000 and for plants which are not reported in such cases, give the community's population in column headed by "Estimated population."

2. If any plant was built or independent water was sold other than full capacity, give full particulars in a footnote.

3. If any plant was built or independent water was sold other than full capacity, give full particulars in a footnote.

1. Name and location of plant		2. Number of wells				3. Other gas capacity, M cu ft		
No.	Name and location of plant	Number of wells			Water gas (10)	Oil gas (11)	Other gas capacity	
		New (12)	Open (13)	Abandoned (14)			L.P. Gas (15)	Refinery gas (16)
1	201 East Street, Brooklyn, N.Y.	Oil gas				34,000		
2	Citizens Works	8	-	-	-			
3	Wagner and Varick Avenues, Brooklyn, N. Y.	11	-	-	-	67,000	12,000 *	6,000
4	Greengirt Works							
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413. WATER GAS SETS. (See insert sheet attached for particulars of oil gas sets)

Show hereunder reported particulars of water gas sets located in water gas plants owned or controlled by:

No.	Designation of plant	Number of sets	Type of water	Year installed	Gas rate in standard feet (1000 cu ft)	Set No. (1000 cu ft)
1						
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414. EMPLOYEES

1. Show hereunder the reported particulars of gas holders in process of construction at the end of the year. 2. If any such holder was built under any title other than full capacity, give full particulars in a footnote.

Works and buildings					Holds				
No.	Description of plant or person (a)	Number of units (b)	Water or holder (c)	Year installed (d)	Capacity, cu. ft. (e)	Number of units (f)	Water or holder (g)	Year installed (h)	Capacity, cu. ft. (i)
1	See insert sheet 411 a 2								
2									
3									
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419a. Oil Gas Sets

Line No.	Designation of Plant (a)	Number of sets (b)	Name of maker (c)	Year installed (d)	24-hr. capacity, M. cu.ft. (e)
1	Citizens Works	2	Bartlett-Rayward Co.	1906	7,000
2	" "	1	" " "	1921	13,500
3	" "	1	" " "	1921	13,500
4	" "	1	" " "	1927	30,000
5	Greenpoint Works	6	United Engineers & Const. Inc.	1945	14,800
6	" "	2	" " " " "	1948	22,200
7	" "	3	" " " " "		

* Year of original installation as water gas sets. All of the sets listed above were converted to oil gas sets in 1952.

420. Holders

Line No.	Designation of plant or station (a)	Works and outlying				Pillar			
		Number of units (b)	Maker or builder (c)	Year installed (d)	Capacity cu.ft. (e)	Number of units (f)	Maker or builder (g)	Year installed (h)	Capacity cu.ft. (i)
"	Cutaneous Works	"				1	Bartlett-Rayward Co.	1930	500,000
"	Greenpoint Works	"				1	"	1937	1,000,000
"	Greenpoint Works	"				1	Western Gas Coast.Co.	1938	40,000
"	Belmont Ave. Station	1	Bartlett-Rayward Co.	1933	1,000,000				
"	Fifth St. Station	1	"	1933	1,000,000				
"	Flatbush Station	1	"	1935	1,000,000				
"	Flatbush Station	1	"	1935	1,000,000				
"	Jamaica Station	1	Koppers Company, Inc.	1945	10,000,000				
"	Maspeth Ave. Station	1	Bartlett-Rayward Co.	1937	15,000,000				
"	Maspeth Ave. Station	1	Koppers Company, Inc.	1945	17,000,000				
"	Newtown Station	1	Bartlett-Rayward Co.	1941	10,000,000				
"	Newtown Station	1	"	1941	10,000,000				
"	Twelfth St. Station	1	"	1935	1,000,000				
"	Wythe Ave. Station	1	"	1935	1,000,000				
"	Wythe Ave. Station	1	"	1935	1,000,000				
"		<u>13</u>			<u>52,000,000</u>	<u>3</u>			<u>1,040,000</u>

III. STATION RECORDS - GAS

Show hereunder the following quantities with respect to gas available for station, together with other gas consumed for station illumination, etc., within including gas used for other purposes, such as gas used in heating and cooking, etc., within the premises and adjacent buildings, the total as in Schedule III.

Description of station	Estimated Works	Greenpoint Works				Total
			(1)	(2)	(3)	
Gas consumed, No. 1 (monthly total):						
Oil gas	11,243	143,794				155,037
Liquefied petroleum gas	-	1,438				1,438
Refinery air gas	-	100,000				100,000
Gas used, No. 2 (monthly total):						256,475
Oil gas	1,033	1,074				2,107
Liquefied petroleum gas	-	1,033				1,033
Refinery air gas	-	1,103				1,103
Gas, No. 3, used in other (monthly total):						1,532
Oil gas	28,454	307,362				335,816
Refinery air gas	-	42,808				42,808
Gas, No. 4, which remains unused:	1,704,793	137,479				1,842,272
Gas, No. 5, used in other (monthly total):						-
On the days when purchased natural gas was sufficient to meet demand requirement did not produce any gas.						-
Gas, No. 6, which remains unused:	-	-				-
Gas, No. 7, which remains unused:	101,400	88,000				1,891,600
Measurement from sale:	14.7	14.7				14.7

IV. SYSTEM CHAIN STATIONS - GAS

Show the recorded information in terms of 14 in. 14. In the column in last table governmental, record a statement showing the recorded data for each station system.

Name		Maximum capacity, 1 day (14 in. 14)	Maximum capacity, 1 day (14 in. 14)
(a)	(b)	(c)	(d)
(a) Monthly record:			
January		201,612	17,000
February		201,612	19,172
March	Date:	201,612	17,362
April	quantities shown in column	210,000	-
May	(b) and on line A include	120,000	-
June	purchased natural gas,	120,000	1,100
July		120,000	-
August		120,000	-
September		120,000	-
October		120,000	-
November		200,000	14,000
December		200,000	10,000
(b) Maximum hourly and one day:			1,000
Time and hour of each maximum:		December 16, 1953 - 2 p.m. to 5 p.m.	
(c) Government for gas and sale of surplus, if any (information not furnished from sale):		14.7	
(d) Storage capacity, including first storage, at end of year:		14.7	

V. FIELD STORAGE OF GAS

If separate station record gas field facilities for storage purposes, show hereunder the required information, separately for each field, and state all quantities of gas in 14 in. 14.

(a) Location or description of field:	None
(b) Number of wells:	
(c) Total output:	
(d) Estimated total output capacity:	
(e) Gas delivered to street (daily total):	
(f) Gas delivered to street (monthly total):	
(g) Gas delivered to street (yearly total):	
(h) Gas in storage at end of year (at):	14.7
(i) Gas in storage at end of year (at):	14.7
(j) Gas in storage at end of year (at):	14.7
(k) Gas in storage at end of year (at):	14.7
(l) Gas in storage at end of year (at):	14.7
(m) Gas in storage at end of year (at):	14.7
(n) Gas in storage at end of year (at):	14.7
(o) Gas in storage at end of year (at):	14.7
(p) Gas in storage at end of year (at):	14.7
(q) Gas in storage at end of year (at):	14.7
(r) Gas in storage at end of year (at):	14.7
(s) Gas in storage at end of year (at):	14.7
(t) Gas in storage at end of year (at):	14.7
(u) Gas in storage at end of year (at):	14.7
(v) Gas in storage at end of year (at):	14.7
(w) Gas in storage at end of year (at):	14.7
(x) Gas in storage at end of year (at):	14.7
(y) Gas in storage at end of year (at):	14.7
(z) Gas in storage at end of year (at):	14.7

FOR INFORMATION OF THE OFFICE, AVAILABLE AND RELIABLE - 22A

1. *Using Government's ownership of all gas handled during the year, include all gas consumed by other departments including gas purchased for the direct use of each other departments as, for example, the heating of buildings. Also include gas consumed directly in gas processing facilities, such as gas used in heating lime stone. In the event that a second release was authorized, Natural gas purchased shall include the portion thereof*

collected or stored, and the defendant's recovery is less than \$5.00, provided that the state either "files recovery or attachment."¹⁷ In collecting that it was that the specific process for turning trials on and in defendant's favor, in the evidence record, at least in the present that each defendant is to receive.

Gas available	Boiler gas c.f. ft.	Gas at 12.7 inches wt.	Gas c.f. ft.	Description (Specify kind of gas to the extent available) c.f. ft.	Boiler gas c.f. ft.	Gas c.f. ft.
Total				1 Total		
Gas used in engineering of plant, specially heated?				2 High B.t.u. gas	1046	23,285,128
High B.t.u. gas	1046	78,600				
				3		
				4		
Boiler gas produced	1046	24,908,730		5		
Other gas produced (specify kind)	"	"		6 Delivered to field directly	"	"
				7 Generated by gas treatment, specially prepared		
				8 Natural gas used for boiler fuel	1046	600,080
				9 " " for other plant usage	1046	10,917
				10 High B.t.u. gas for general purposes	1046	29,110
				11 Generated by other departments, specially designated	"	"
Boiler gas produced	"	"				
Other gas produced	"	"				
Unfractionated, waste gas produced	"	"				
Other gas produced (specify kind)				12 Other description, as appropriate, specified	"	"
Oil gas	1070	157,513				
Liquidified petroleum gas	1070	1,628				
Refinery air gas	1102	169,131				
				13 Lost and unrecovered by process	"	"
				14 Transmission	"	"
Wasteburn from field direct	"	"				
Other sources, or subdivisions, (specify description and kind of gas)	"	"		15 Description - High B.t.u. gas	1046	1,580,015
Natural gas-liquefied loss	1046	56,191				
				16 "Gas lost at end of pipe?"	1046	79,860
				17 High B.t.u. gas		
				18		
				19		
Total Boil.	"	25,621,509		20 Total Boil.	"	25,621,509
		245,000,000				

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

3. Was natural gas used gas at any other kind of gas, and should it be produced products, which is not assumed to be in company records and in the schedule?

Show the detailed information concerning gas-burning residuals produced and disposed of during the year.

No.	Fuel	Quantities handled during year						Carried forward from 1934 and/or 1935	Residuals disposed	Residuals from 1934	Average selling price
		On hand at beginning	On hand at beginning	On hand at beginning	On hand at beginning	On hand at beginning	On hand at end				
	gal.	gal.	gal.	gal.	gal.	gal.	gal.				
1	Gas	gal.	458,134	1,249,780	1,131,290	-	638,756	116,585.43	-	108,352.33	29
2	Gas	gal.	15,863	20,983	-	-	97,646	10,977.36	-	-	-
3	Gas and gas oil	gal.	15,863	20,983	-	-	97,646	10,977.36	-	149,123.43	10 10
4	Coke	Net tons	1,945.00	211,555.00	14,772.50	3,967.23	11,951.49	-	-	40,178.60	28
5	Motor fuel	gal.	55,714	172,696	229,550	-	56,816	17,300.98	-	1,736.98	29
6	Residual distillate	gal.	-	12,615	7,971	-	4,043	2,643.66	1,736.20 (1)	3,977.40	15
7	Crude heavy solvent	gal.	12,856	16,240	39,848	-	29,240	7,156.66	-	-	-
8	Crude light oil	gal.	-	97,171	-	-	90,171	16,519.92	-	-	-
Totals								247,928.16	1,736.20	168,352.33	

(1) Includes \$40,824.36 representing adjustment of value of quantity on hand at end of year.

(2) Quantity shown represents inventory adjustment.

(3) Represents residuals carried applicable to motor fuel, residual distillate, crude heavy solvent and crude light oil, which cannot be stated separately.

320. Important Changes During the Year

Inquiry 4-b

Important units of plant and equipment installed or permanently withdrawn from service during the year

K	Location and Description	Cost
1	Installed	
2	Williams Works	
3	Additions and alterations to convert plant to high S.I.M. operation, including	
4	conversion of six water gas sets to oil gas sets, one 1,000,000 gallon oil	
5	storage tank, yard piping, debusselizing equipment and associated equipment.	238,862.00
6	(reported in 1932)	
7	Greenpoint Works	
8	Additions and alterations to convert plant to high S.I.M. operation, including	
9	conversion of eleven water gas sets to oil gas sets, two 1,000,000 gallon oil	
10	storage tanks, yard piping, debusselizing equipment and associated equipment.	148,482.00
11	(reported in 1932)	
12		
13	Withdrawn from service	
14	Williams Works	
15	Williamson water gas sets Nos. 1 and 2 together with associated apparatus,	
16	piping and wiring.	162,882.00
17	Williamson coke bin and supports, cable railway, conveyors Nos. 2, 3 and	
18	4, grizzly and conveyors interlocking wiring.	127,809.00
19		
20	Bedford Office	
21	Land and improvements sold	100,147.00
22		
23		
24		
25		
26		
27		
28		
29		
30		
31		
32		
33		
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ELECTRIC CORPORATIONS
MANUFACTURING CORPORATIONS
NATURAL GAS CORPORATIONS

CLASSES A and B

ORIGINAL

YEAR ENDED
DECEMBER 31, **1954**

Report of **THE BROOKLYN UNION GAS COMPANY**

Located at **176 REMSEN STREET, BROOKLYN 1, NEW YORK**

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1954

*THIS IS A VERIFIED REPORT
NOTATING THE RECEIPT
OF ANY OTHER REPORTS
MUST NOT BE MADE THEREIN*

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 15, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

W.D. & O.L. Gas Data

No.	Designation of plant (a)	Number of sets (b)	Name of maker (c)	Year Installed (d)	24 hour Capacity 8,000 ft. ³ (e)
					(e)
1	Chicago Works	2	Burlington-Spencer Co.	1906	7,000
2	"	3	" " "	1901	12,000
3	"	3	" " "	1904	11,000
4	"	3	" " "	1907	20,000
5	Greenspoint Works	4	" " "	1904	24,000
6	"	2	United Engineers & Constructors, Inc.	1904	20,000
7	"	3	" " "	1900	20,000

* Year of original installation as water gas sets. All of the sets listed above were converted to oil gas sets in 1914.

No.	Designation of plant or station	Work and installed			Value			Capacity (kw)
		Number of units	Year installed	Capacity (kw)	Number of units	Year installed	Value (\$)	
1	Electric Works	1			1	1930	800,000	
2	Gasworks Works	1			1	1937	1,000,000	
3	Gasworks Station	1			1	1938	50,000	
4	Gasworks Station	1	1933	1,200,000				
5	Gasworks Station	1	1933	1,000,000				
6	Gasworks Station	1	1933	1,000,000				
7	Gasworks Station	1	1933	1,000,000				
8	Gasworks Station	1	1933	1,000,000				
9	Gasworks Station	1	1933	1,000,000				
10	Gasworks Station	1	1933	1,000,000				
11	Gasworks Station	1	1933	1,000,000				
12	Gasworks Station	1	1933	1,000,000				
13	Gasworks Station	1	1933	1,000,000				
14	Gasworks Station	1	1933	1,000,000				
15	Gasworks Station	1	1933	1,000,000				
16	Gasworks Station	1	1933	1,000,000				
17	Gasworks Station	1	1933	1,000,000				
18	Gasworks Station	1	1933	1,000,000				
19	Gasworks Station	1	1933	1,000,000				
20	Gasworks Station	1	1933	1,000,000				
21	Gasworks Station	1	1933	1,000,000				
22	Gasworks Station	1	1933	1,000,000				
23	Gasworks Station	1	1933	1,000,000				
24	Gasworks Station	1	1933	1,000,000				
25	Gasworks Station	1	1933	1,000,000				
26	Gasworks Station	1	1933	1,000,000				
27	Gasworks Station	1	1933	1,000,000				
28	Gasworks Station	1	1933	1,000,000				
29	Gasworks Station	1	1933	1,000,000				
30	Gasworks Station	1	1933	1,000,000				
31	Gasworks Station	1	1933	1,000,000				
32	Gasworks Station	1	1933	1,000,000				
33	Gasworks Station	1	1933	1,000,000				
34	Gasworks Station	1	1933	1,000,000				
35	Gasworks Station	1	1933	1,000,000				
36	Gasworks Station	1	1933	1,000,000				
37	Gasworks Station	1	1933	1,000,000				
38	Gasworks Station	1	1933	1,000,000				
39	Gasworks Station	1	1933	1,000,000				
40	Gasworks Station	1	1933	1,000,000				
41	Gasworks Station	1	1933	1,000,000				
42	Gasworks Station	1	1933	1,000,000				
43	Gasworks Station	1	1933	1,000,000				
44	Gasworks Station	1	1933	1,000,000				
45	Gasworks Station	1	1933	1,000,000				
46	Gasworks Station	1	1933	1,000,000				
47	Gasworks Station	1	1933	1,000,000				
48	Gasworks Station	1	1933	1,000,000				
49	Gasworks Station	1	1933	1,000,000				
50	Gasworks Station	1	1933	1,000,000				
51	Gasworks Station	1	1933	1,000,000				
52	Gasworks Station	1	1933	1,000,000				
53	Gasworks Station	1	1933	1,000,000				
54	Gasworks Station	1	1933	1,000,000				
55	Gasworks Station	1	1933	1,000,000				
56	Gasworks Station	1	1933	1,000,000				
57	Gasworks Station	1	1933	1,000,000				
58	Gasworks Station	1	1933	1,000,000				
59	Gasworks Station	1	1933	1,000,000				
60	Gasworks Station	1	1933	1,000,000				
61	Gasworks Station	1	1933	1,000,000				
62	Gasworks Station	1	1933	1,000,000				
63	Gasworks Station	1	1933	1,000,000				
64	Gasworks Station	1	1933	1,000,000				
65	Gasworks Station	1	1933	1,000,000				
66	Gasworks Station	1	1933	1,000,000				
67	Gasworks Station	1	1933	1,000,000				
68	Gasworks Station	1	1933	1,000,000				
69	Gasworks Station	1	1933	1,000,000				
70	Gasworks Station	1	1933	1,000,000				
71	Gasworks Station	1	1933	1,000,000				
72	Gasworks Station	1	1933	1,000,000				
73	Gasworks Station	1	1933	1,000,000				
74	Gasworks Station	1	1933	1,000,000				
75	Gasworks Station	1	1933	1,000,000				
76	Gasworks Station	1	1933	1,000,000				
77	Gasworks Station	1	1933	1,000,000				
78	Gasworks Station	1	1933	1,000,000				
79	Gasworks Station	1	1933	1,000,000				
80	Gasworks Station	1	1933	1,000,000				
81	Gasworks Station	1	1933	1,000,000				
82	Gasworks Station	1	1933	1,000,000				
83	Gasworks Station	1	1933	1,000,000				
84	Gasworks Station	1	1933	1,000,000				
85	Gasworks Station	1	1933	1,000,000				
86	Gasworks Station	1	1933	1,000,000				
87	Gasworks Station	1	1933	1,000,000				
88	Gasworks Station	1	1933	1,000,000				
89	Gasworks Station	1	1933	1,000,000				
90	Gasworks Station	1	1933	1,000,000				
91	Gasworks Station	1	1933	1,000,000				
92	Gasworks Station	1	1933	1,000,000				
93	Gasworks Station	1	1933	1,000,000				
94	Gasworks Station	1	1933	1,000,000				
95	Gasworks Station	1	1933	1,000,000				
96	Gasworks Station	1	1933	1,000,000				
97	Gasworks Station	1	1933	1,000,000				
98	Gasworks Station	1	1933	1,000,000				
99	Gasworks Station	1	1933	1,000,000				
100	Gasworks Station	1	1933	1,000,000				

2,200,000

1,200,000

THE UNIVERSITY OF CHICAGO

10. The respondent certifies that the above information is true and correct to the best of his knowledge and belief, and that he is not aware of any other information that would materially affect the above information.

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This is to certify information concerning accounting records provided and reported in Form No. 100.

Date	Item	Quantities Shipped During Year						Transfer to Inventory at Year End	Balance Forward	Balance at Year End	Total
		Yield	On Hand at Beginning	Used	Lost	Returned	On Hand at Year End				
1961	Gas	261	258,758	2,588,758	2,588,758	-	261	258,758	-	258,758	261
1962	Gas and fuel oil	261	27,248	(a) 3,897	-	(a) 38,139	-	(b) 311.43	-	-	-
1963	Gas	261	27,248	(c) 22,000	-	3,808.80	3,808.80	-	-	-	-
1964	Motor Fuel	261	28,824	-	-	(d) 28,824	-	-	-	-	-
1965	Residual distillate	261	4,242	(e) 3,242	-	-	-	(f) 885.50	-	-	-
1966	Grade heavy oil-res	261	29,248	275	29,000	-	-	291.50	2,212.50	2,498.50	25
1967	Grade light oil	261	27,271	(a) 238,800	219,012	3,200	264,244	2388,873.50	-	2388,873.50	264
Total								258,758	2,498.50	2,757.50	264

(a) Includes \$1,750.77 representing adjustment of value of quantity on hand at end of year.

(b) Includes 13,801 gallons of motor losses off-value \$980.25. (c) Includes \$1,074 gallons transferred to heavy equipment oil.

(d) Represents inventory adjustment.

(e) Transferred to grade light oil.

(f) Motor losses off.

(g) Includes 28,824 gallons transferred from motor fuel as shown in Item Y.

(h) Includes \$885.50 representing adjustment of value of quantity on hand at end of year.

(i) Represents available surplus applicable to motor fuel, residual distillate, grade heavy oil-res and grade light oil which cannot be stored separately.

100. Important Changes During the Test

Inquiry 4-6

Important units of plant and equipment installed
or permanently withdrawn from service during the Test

Location and Description

Cost

Installed

Development Works

Install additional fire protection equipment for twenty-eight tank
propane system

225,440.00

Feedstock Station

Install two gas compressors, two boilers, electric system and
auxiliary equipment

426,315.00

Distribution Department

Install main, metering and regulating facilities to supply natural
gas to the American Petroleum Company

170,204.00

Engineering test work and design in connection with rules, provisions
and improvements, and installation of curb cocks, fuel governor,
automatic shut off valves and main and drift. (P.D.C. Case No. 15606)

300,142.00

Withdrawn from service

Feedstock Station

Various buildings and appurtenances on north side of property and
two compressors in substation house on north side of property.

153,114.00

ORIGINAL

YEAR COVERED 1955
DECEMBER 31

Report of *The Brooklyn Union Gas Co.*

Located at *176 Remsen St. Brooklyn 1, N.Y.*

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1955

THIS IS A VERIFIED REPORT
NOTATIONS IN INK OR PENCIL
OR ANY OTHER MARKINGS
MUST NOT BE MADE THEREON

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 15, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

CONSTRUCTION WORK IN PROGRESS (ACCOUNTS 100 AND 100-1)

1. Report particulars separately for each department and for various plant or service, of each major project in progress of construction at any time during the year. These projects may be grouped and limited to a single departmental item in column (2), and in such case show the individual projects may be listed in the first column in each department provided there are five such projects. However, a project shown in the preceding year's report should not be entered, or grouped in this report. Departmental results should be shown in column (3).

Description	Estimated			Closed to Plant or Service During Year (1)	Unliquidated at End of Year		
	Total				Year		
	\$	(M)	00		\$	(M)	00
Account 100, Construction Work in Progress, See Departmental Report	Department						
Installation of fuel gas engine with exhaust and safety equipment in laboratory with valves, compressors and accessories provided in R.D.S. Plant No. 1000	100,000.00			100,000.00			
Install gas, heating and ventilating facilities in engine room, etc. in the American Museum, Inc.	125,000.00			125,000.00			
Install 12 of 12,000 of 1" and 1/2" of 1/2" pipes for the construction of 10,000 cylinders	130,000.00			130,000.00			
Water and service work for the construction of New York International Airport	200,000.00			200,000.00			
Install American Standard equipment and machinery in plant	25,000.00			25,000.00			
Install gas and compressors, etc. boilers, a valving system and auxiliary equipment	150,000.00			150,000.00			
Engine work and valves and accessories in engine plant in R.D.S. operation	200,000.00			200,000.00			
Engine work and valves and accessories in engine plant in R.D.S. operation	1,000,000.00			1,000,000.00			
Install gas and compressors, etc. boilers, a valving system and auxiliary equipment	100,000.00			100,000.00			
Install gas and compressors	100,000.00			100,000.00			
Install gas and compressors	100,000.00			100,000.00			
Gas service work construction of a building	100,000.00			100,000.00			
Water projects							
Account 100-1, Construction Plant Equipment							
See Departmental Report							

The N. Y. Times, 1932

PRODUCTION PLANTS - MANUFACTURED GAS

1. Report the following particulars of each plant used in the production of gas (other than straight natural gas) for which the investment was made or plan to make in calendar year of year. Show this information for each such plant held under lease at the end of the year and designate each such plant as leased.

2. In column (4) show each process used in the production of the gas and the make-up and kind of principal units of equipment identified with each such process. Also the units employed, if used. Indicate in the same column whether the facilities are for household or standby processes. (Facilities in column (4) may be indicated against two or more processes at a single location.)

Designation and Location (1)	Production Facilities and Operating Data (See Instructions) (2)	24-Hour Capacity and (3)	Book Cost Owned Plant (4)
Continental Works 115 West Street Brooklyn, N. Y.	Oil gas process - 2 oil gas units	10,000	7,000,000
Continental Works 115 West Street Brooklyn, N. Y.	Oil gas process - 11 oil gas units	107,000	10,700,000
Continental Works 115 West Street Brooklyn, N. Y.	1. P. Air process - 20 tank storage system 2. P. Air gas	100,000 5,000	10,700,000
	Deposited held on plant under lease at the end of the year.		
	All the facilities shown above are for standby purposes.		
	Quantities shown above represent estimated daily peak production capacity.		
	(1) Approximate 11 to 12%		
	(2) Approximate capacity for approximately 1 hour.		

† Genotype that includes both subtypes in the same row of each gene-producing plant. Genotype on lines 11 to 22 should not include two-headed gene which has been directly tested and should include gene which has been inferred. Genotype on lines 23 to 25 should include the principal gene used, and it may be advisable to add more than one column to lines 23 to 25 when more than one kind of gene is produced at a single place. There all quantities of gene in 100 g of S.S. are given.

Item	Designation of Plant						Totals
	City of New York	Brooklyn					
	(1)	(2)	(3)	(4)	(5)	(6)	
Net gas produced (total and loss)							
1941 gas	1,067,370	1,000					1,068,370
1942 gas	1,067,370	-	104,000				1,171,370
1943 gas	1,067,370	-	11,710				1,079,080
Refinery air gas	1,067,370	-	271,070				1,338,440
Gasoline (in three tanks)	8,750	8,750					17,500
Date of accounts	Feb. 1, 1933	Feb. 1, 1933					Feb. 1, 1933
Feed used, total							
Gasoline	100,000	9,000,000					9,100,000
Quantity							
Storage tank gas cost	1,000	1,000					2,000
Storage tank gas	1,000	1,000					2,000
Feed used, total	100,000	9,001,000					9,101,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Feed used, total	-	101,000					101,000
Refinery gas							
Quantity	-	8,750,000					8,750,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,751,000					8,752,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,752,000					8,753,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,753,000					8,754,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,754,000					8,755,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,755,000					8,756,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,756,000					8,757,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,757,000					8,758,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,758,000					8,759,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,759,000					8,760,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,760,000					8,761,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,761,000					8,762,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,762,000					8,763,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,763,000					8,764,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,764,000					8,765,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,765,000					8,766,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,766,000					8,767,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,767,000					8,768,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,768,000					8,769,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,769,000					8,770,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,770,000					8,771,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,771,000					8,772,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,772,000					8,773,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,773,000					8,774,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,774,000					8,775,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,775,000					8,776,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,776,000					8,777,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,777,000					8,778,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,778,000					8,779,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,779,000					8,780,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,780,000					8,781,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,781,000					8,782,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,782,000					8,783,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,783,000					8,784,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,784,000					8,785,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,785,000					8,786,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,786,000					8,787,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,787,000					8,788,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,788,000					8,789,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,789,000					8,790,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,790,000					8,791,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,791,000					8,792,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,792,000					8,793,000
Gasoline							
Quantity	-	100,000					100,000
Storage tank gas cost	-	1,000					1,000
Storage tank gas	-	1,000					1,000
Refinery gas	-	8,793					

GAS ACCOUNT

1. Report the indicated consumption of gas transactions for the year, including gas which was returned but not gas which was used for flaring during the latter should be treated as flared. If mixed gas is flared, it should be shown as such in column (2) to (5), but the constituent gases should be classified by production processes in column (6) to (9) unless mixed gas was purchased. Exclude liquid petroleum in storage. Items representing gas produced should agree with the corresponding amounts reported on pages 5-11 and 5-12. Show all quantities in Mcf or 10,000 cu ft.

Gas Available (See Instructions)	Per gas cu ft.	Quantity	Disposition (Specify kind when possible)	Per gas cu ft.	Quantity
(1)	(2)	(3)	(4)	(5)	(6)
In local storage - beg. of year (specify kind):					
High Btu gas	1,051	25,353	Used - High Btu gas	1,052	25,171,000
Natural gas purchased	1,042	21,129,372	Delivered to field storage	"	"
Other gas purchased (specify kind):			Used by gas department (specify purpose):		
			Natural gas used for boiler fuel	1,042	385,364
			High Btu gas for general purposes	1,052	125,117
			Used by other departments (specify departments):		
Natural gas produced	"	"			
Other gas produced (specify kind):					
Oil gas	1,042	220,325	Other disposition or credit adjustments (describe):	"	"
Liquefied petroleum gas	1,040	13,779			
Refinery off gas	1,047	255,252			
			Lost and unaccounted for:		
Withdrawn from field storage:	"	"	In field storage		
Other receipts or debit adjustments (describe):			Other - High Btu gas	1,042	1,560,685
Natural gas lost 1944	1,042	45,322	In local storage - end of year		
			High Btu gas	1,042	89,278
Scrap	1,052	25,171,000			
Expended during the year		20,820,000	Total	1,042	21,175,000

2. State briefly the action, including quantities when available, to which any kind of gas was used directly in the production process (other than for refining) which is not included above.

None

ORIGINAL

YEAR ENDED
DECEMBER 31, 1956

Report of The Brooklyn Union Gas Co.

Located at 176 Remsen St. Brooklyn 1, N.Y.

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

THIS IS A VERIFIED REPORT
NOTATION IS TO BE PLACED
ON ANY OTHER MARKINGS
MUST NOT BE MADE THEREIN

FOR THE YEAR ENDED DECEMBER 31, 1956

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 15, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

IMPORTANT CHANGES

Report important changes of the type listed. Except as otherwise indicated data furnished should apply to the year ended the report covers. Answers should be confined to questions with the inquiries and if "none" means the fact, it should be noted. If information which answers an inquiry is given elsewhere in the report, identification of the other source will be sufficient.

1. Changes in rights to furnish service, i.e., distribution from others or similar capacity. For each franchise surrendered show the name of the municipality, date of grant, and date of surrender. For each franchise accepted show the grantor, the date, the specific features involved, the party from whom acquired, and the new subscribers.

2. Consolidations, mergers, and reorganizations. Give names of other companies involved, particulars of each such incident, date, and Consolidation authorization.

3. Purchase or sale of water property, or of a part of property when service facilities are included. Give brief description of each transaction, name of other party, date, consolidation, and Consolidation authorization.

4. Losses of property (to or from members of the kind covered by the preceding inquiry. To the extent applicable give details corresponding to those required by the preceding inquiry.

5. Additions to plant in service and retirements of plant. Important water. Give brief particulars and book accounts involved. No rule can be set down as to what constitutes an important unit, but no

specimen will be expected to use reasonably judgment considering the size of the company and effect on operation.

6. Securities issued during the year. Identify the securities, give purposes of issuance, date, consideration received and Consolidation authorization. At least such details "securities" shall be taken to meet any capital stock in debt, the issuance of which requires prior authorization by the Commission.

7. Changes in rates. Give brief particulars of each change, the service characteristics, effective date, and how obtained or allowed by the Commission.

8. Changes in nature of output. Furnish information with respect to important changes during the year.

9. Changes in articles of incorporation. Give brief particulars of each change and date.

10. Changes in general officers (treasurer and all paid officers) by the report and date of filing thereof. Give brief particulars.

11. Other important changes. Give brief particulars of each other important change which is not disclosed elsewhere in this report.

1. None

2. None

3. None

4. None

5. Important units added to plant in service:

Grasspoint Works	
Install gas condenser	\$ 129,851
Install tar emulsion tank	151,813
Distribution Department	
Main and service work in connection with	
10th Street sewer project	101,873
Southern extension of New York Facilities natural gas line	1,404,600
Main and service work in connection with	
Installation at Hotel St. George	154,268
Installation of dual governor pits, automatic shut-off valves and safety regulators in connection with rules, precautions and	272,252
Improvements prescribed in P.S.C. Case No. 1556	
Important units withdrawn from service:	
None	

6. None

IMPORTANT CHANGES Enclosed

Changes in Prices	Effective Date	F.I.C. Order No.	Notes of Changes
Section 1 Class No. 1 and 2	March 1, 1974	Special permission February 20, 1974	Sections 21 and 22 Section Classifications into 2 plus 200 20 Section Classifications accompanied by a revision in the blocks of the rates and an adjustment of prices of comparable blocks.
3	March 1, 1974	Special permission February 20, 1974	Provided for a lower price step for consumption in cases of 20,000 cu-ft. per month.

None

None

Changes in general officials between end of period covered by the report and date of filing thereof:

- E. E. Barker elected Assistant Chief Engineer effective January 15, 1973
- E. T. Burns elected Assistant Chief Engineer effective January 15, 1973
- F. B. Smith elected Assistant Vice President effective January 15, 1973
- L. L. Fyfe elected Assistant Comptroller effective January 15, 1973

Other Important Changes:

- \$100,000 principal amount of Treasury Debt 1-1/2% Floating Fund Indebtedness, due June 1, 1974, was refunded on June 1, 1974 in accordance with the sinking fund provisions of the Indebtedness (Section 1-1) dated June 1, 1970.
- \$1,000,000 principal amount of Two Year 1-1/2% Serial Notes, due 1974 to 1976, matured and was paid on June 1, 1974 (1973-74) and December 1, 1974 (1974-75).
- Large County Lighting Company and Two 1-1/2 and 1-1/4 MW Lamping were consolidated into the Electric Light and Lamping effective January 15, 1973.

INCIDENTAL GAS OPERATING EXPENSE ITEMS

Report hereunder, for the year and separately for each account, particulars of charges to account 700, Payer has other sources of credits to account 700.1, Beneficiary Production - Credit, of charges to account 700.2, Nonproductive Well Drilling, of charges to account 700.3, Transmission and Compression of Gas by Others, and of charges and credits to the various accounts presented to cover the above use of gas facilities. When applicable, show quantities of the principal commodities involved, the name of the other party to the agreement, the identity of facilities involved, the number of wells drilled, the applicable charges or credits and, for joint facilities, the basis used for allocating charges or credits.

Account 700 - Payer from Other Sources

Beneficiary production from Consolidated Edison Company of New York, Inc.
 1,000,000 B.C.F. \$ 10,000.00

Account 700.1 - Beneficiary Production - Credit

Beneficiary	1,000,000			
Gas	10,000	40%		\$ 4,000.00
Oil and Tar Oil	1,000			100.00
Crude Light Oil	1,000			1,000.00
Heavy Crude Oil	1,000			10,000.00
Crude Heavy Oil				10,000.00
				<u>\$ 25,000.00</u>

Account 700.2 - Nonproductive Well Drilling - None

Account 700.3 - Transmission and Compression of Gas by Others - None

Account 700 - Paid from Gas Property

Amounts received representing carrying charges in connection with natural gas facilities provided under New York Facilities Agreement:

Brooklyn Borough Gas Company	\$ 10,000.00
Consolidated Edison Company of New York, Inc.	10,000.00
Long Island Lighting Company	10,000.00
Long Island Lighting Company	<u>10,000.00</u>

Account 700 - Beneficiary Debit

Amounts paid representing carrying charges in connection with natural gas facilities provided under New York Facilities Agreement:

Consolidated Edison Company of New York, Inc.	\$20,000.00
Long Island Lighting Company	10,000.00
	<u>\$30,000.00</u>

Account 700.1 - Joint Expenses - None

Amounts paid representing respondents' portion of cost of operation and maintenance of natural gas facilities provided by other utilities under New York Facilities Agreement:

Consolidated Edison Company of New York, Inc.	\$ 1,000.00
Long Island Lighting Company	1,000.00
	<u>\$ 2,000.00</u>

Account 700.2 - Joint Expenses - None

Amounts received representing other utilities' portion of cost of operation and maintenance of natural gas facilities provided by respondent under New York Facilities Agreement:

Brooklyn Borough Gas Company	\$ 10,000.00
Consolidated Edison Company of New York, Inc.	1,000.00
Long Island Lighting Company	1,000.00
Long Island Lighting Company	<u>1,000.00</u>

For basis of charges and credits in connection with joint facilities see
 Joint Gas Bill.

2. In column (c), show each process used in the production of the gas and the location and kind of principal units of equipment identified with each such process; also the number, location, and use of facilities in the same column whether the facilities are for treatment or storage purposes. Entries in column (d) may be located against any or more processes at a single location.

Description and Location (a)	Production Facilities and Operating Status (See Instructions) (b)	G. Gas Capacity Mcf (c)	Total Gas Produced Mcf (d)
Williams Works All Gas Process Buckeye, S.I.	Oil gas process - 8 oil gas wells	75,000	7,275,430
Williams Works Buckeye and Union Buckeye, Buckeye, S.I.	Oil gas process - 11 oil gas wells L. F. air process - all tank program system Refinery air gas	57,000 (2) 15,000 5,000	10,987,790
	Responsible held in place under lease at the end of the year All the facilities shown above are for storage purposes Quantities shown above represent estimated daily gas production capacity (1) Average 11 to 100 (2) Maximum capacity for approximately 4 days		

PRODUCTION PLANT STATISTICS

Report the indicated data referring to the operation of each gas producing plant. Entries on lines 11 to 22 should not include purchased gas which has been directly used. Gas should include gas which has been subjected. Entries on lines 13 to 22 should include the principal fuels used, and it may be advisable to use more than one column for items 11 to 22 when more than one kind of gas is produced at a single plant.

Item	Description of Plant						Totals
	Civilian	Strategic					
	PCUSA	PCUSA					
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Net gas produced (kind and Btu)							
Civ. gas	1,000,000 Btu	-	15,000				15,000
Str. gas	1,000	-	200				200
Materials for new units		-	1,000				1,000
Cost of construction		-	200,000,000				200,000,000
Fuel used, kind							
Coal	100,000						
Quantity		-	100,000				100,000
Average cost per unit		-	100,000				100,000
Average Btu per unit	100,000	-	100,000				100,000
Fuel used, kind							
Coal	100,000						
Quantity		-	1,000				1,000
Average cost per unit		-	100,000				100,000
Average Btu per unit	100,000	-	100,000				100,000
Fuel used, kind							
Coal							
Quantity							
Average cost per unit							
Average Btu per unit							
Operation expenditures and engineering		1,000,000,000	1,000,000,000				2,000,000,000
Operation other (accounts 101 to 107.2)		10,000,000	10,000,000				20,000,000
Pay		10,000,000	10,000,000				20,000,000
All other operation expenses		10,000,000	10,000,000				20,000,000
Maintenance		10,000,000	10,000,000				20,000,000
Materials produced (kind)		1,000,000	1,000,000				2,000,000
All other expenses		1,000,000	1,000,000				2,000,000
Total (accounts 101 to 107.2)		10,000,000	10,000,000				20,000,000
Refined gas charged to Government							

LOCAL STORAGE FACILITIES

Report the indicated particulars of local storage facilities. Units of less than 100 Mbf capacity may be grouped on a company-wide basis and shown as a single item.

Location and Type (a)	Capacity Mbf (b)	Location and Type (c)	Capacity Mbf (d)
Deep well facilities:			
Jensen Station	10,000		
Barnett Avenue Station	15,000		
Barnett Avenue Station	17,000		
Water well facilities:			
C/O M. Hargis Station	5,000		
C/O Hargis Station	5,000		
C/O Hargis Station	5,000		
Barnett Station	10,000		
Barnett Station	10,000		
Barnett Avenue Station	5,000		
Barnett Avenue Station	5,000		
Barnett Avenue Station	5,000		
		Total	90,000

SYSTEM OPERATION DATA

Report the indicated data in Mbf capacity for each operating division. If, in the territory covered, gases having substantially different thermal characteristics are regularly distributed, separate data should be reported regardless of whether or not the service is rendered in different operating divisions.

Year (a)	Capacity Mbf (b)	Designation of System					
		(c)	(d)	(e)	(f)	(g)	(h)
Business operations (1 day each) of:							
January	417,177						
February	420,177						
March	411,177						
April	420,177						
May	420,177						
June	420,177						
July	420,177						
August	420,177						
September	420,177						
October	420,177						
November	420,177						
December	420,177						
Business hours each day:							
Time and hour of each business day:	10:00 A.M. - 5:00 P.M.						
Gas transported by:							
For sale of independent oil wells, other system:							

GAS ACCOUNT

1. Report the indicated consumption of gas transactions for the year, including gas which was released but not gas which was used for direct heating; the former should be treated as lost. If mixed gas is distributed, it should be shown as such in column (d) to (f), but the constituent gases should be identified by production processes in column (a) to (c) unless mixed gas was purchased. Include liquid petroleum in storage tanks representing quantities of gas should agree with the corresponding amounts shown elsewhere in this report.

Gas Available (See Instructions) (a)	Gas per cu. ft. (b)	Quantity (c) M Cubic Feet	Disposition (Specify kind when possible) (d)	Gas per cu. ft. (e)	Quantity (f) M Cubic Feet
In local storage - beg. of year (specify kind): High Btu gas	1045	80,319	End: High Btu gas	1045	77,002,908
			Delivered to field storage	-	-
Natural gas purchased	1045	70,430,070	Used by gas department (specify process):		
Other gas purchased (specify kind):	-	-	Natural gas used for boiler fuel	1045	420,476
			High Btu gas for general purposes	1045	102,076
			Used by other departments (specify departments):	-	-
Natural gas produced	-	-			
Other gas produced (specify kind):			Other disposition or credit adjustments (describe):	-	-
Oil gas	1045	11,701			
Liquefied petroleum gas	1045	500	Lost and Discontinued to:		
			In field storage	-	-
Withdrawn from field storage	-	-	Other: High Btu gas	1045	1,368,811
Other receipts or debit adjustments (describe):					
Natural gas - line loss	1045	47,000	In local storage, end of year	1045	84,189
			High Btu gas		
Total	1045	70,707,500	Total	1045	78,210,000
Equivalent therms, Btu (2)		400,707,500			

2. Itemize locally the action, including quantities when available, to which any kind of gas was used directly in the production process (other than for reheating) which is not included above.

None

3. To the extent our standards indicated in this report show the approximate p.a.t.h. processes which apply to measurement of the principal quantities listed above (for example, 14.7 for gas produced, 14.7 plus 0.7 for general consumption, etc.)

14.7 for gas purchased, 14.7 for gas produced and 14.7 plus 0.7 for water and gas for general consumption.

MEMORANDUM FOR THE RECORD

RECEIVED

NOV 1954

TO: THE SECRETARY, ARMY, AIR FORCE, NAVY, AND MARINE CORPS

FROM: THE JOINT CHIEFS OF STAFF, WASHINGTON, D. C.

SUBJECT:

Joint Chiefs of Staff

RECEIVED

Memorandum of Joint Chiefs of Staff

for the Secretary

on the subject of [illegible]

[illegible]

Approved for release by the [illegible] on [illegible]

ORIGINAL

YEAR ENDED
DECEMBER 31, 1957

Report of THE BROOKLYN UNION GAS COMPANY

(When more than one corporation, firm, or individual owner is the respondent, having jurisdiction reports to the Commission, furnish the name, address and corporation.)

Located at 176 REMSEN STREET, BROOKLYN 1, NEW YORK.

(State also the location, including street and No., of the respondent's main business office within the State.)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1957

THIS IS A VERIFIED REPORT
NOT ATTEMPTING TO DEFRAUD OR DECEIVE
OR ANY OTHER DEVIANCE
MUST NOT BE MADE THEREIN

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY 1, N. Y., NOT LATER THAN MARCH 15, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

Important Changes

Report important changes of the types listed. Except as otherwise indicated data furnished should apply to the same period the report covers. Answers should be numbered to correspond with the inquiries and if "none" states the fact, it should be noted. If information which answers an inquiry is given elsewhere in the report, identification of the other source will be sufficient.

1. Changes in rights to foreign service, i.e., distribution fees, shares or similar treatment. For each franchise surrendered show dates of the municipality, date of grant, and date of surrender. For each franchise acquired show the grantor, the date, the type (if the territory covered), the party from whom acquired, and the consideration.

2. Consolidations, mergers, and reorganizations: Give names of other companies involved, particulars of each such business, date, and Commission authorization.

3. Purchase or sale of entire property, or of a part of property other service territory is included: Give total description of each transaction, name of other party, date, consideration, and Commission authorization.

4. Losses of property (to or from another) of the kind covered by the preceding inquiry: To the extent applicable give details on responding to those reported by the preceding inquiry.

5. Additions to plant in service and retirements of plant: Important notes: Give total particulars and book numbers (provided the rule can be set down as to what constitutes an important unit, but no

expenditure will be reported to the reasonable judgment considering the size of the company and effect on operations.

6. Securities issued during the year: Identify the securities, give purposes of issuance, date, consideration received and Commission authorization. As here used the term "securities" shall be taken to mean any capital stock or debt, the issuance of which requires prior authorization by this Commission.

7. Changes in rates: Give total particulars of each change, the service classification, effective date, and date entered as allowed by the Commission.

8. Changes in rates of wages: Provide information with respect to important changes during the year.

9. Changes in articles of incorporation: Give total particulars of each change and date.

10. Changes in general officers between end of period covered by the report and date of filing thereof: Give total particulars.

11. Other important changes: Give total particulars of each other relevant change which is not disclosed elsewhere in this report.

1. By reason of the consolidation mentioned below in answer to Inquiry 2

consolidated acquired the franchises of Kings County Lighting Company and New York and Richmond Gas Company.

2. Kings County Lighting Company and New York and Richmond Gas Company were consolidated into the respondent effective January 21, 1931. P.A.C. Order dated December 11, 1928 (Case No. 1700) (see answer to Inquiry 6 for particulars of stock issued to effect consolidation).

3. None

4. None

5. Important units added to plant in service:

Overhead works	\$ 145,915
Gas condenser	340,812
Oil tank, capacity 2,000,000 gallons	
Water Avenue Station	137,301
Gas fired boilers (2)	
New York Gate Station	425,752
Gate station facilities	
Granville Service Station	125,476
Gate station facilities	
Maintenance Department	
Mains and services in connection with New York International Airport new construction	120,177
Southern extension of New York Facilities natural gas line	1,000,000

IMPORTANT CHANGES - Continued

3. Important units added to plant in service: (continued)

Distribution Department (continued)

24" medium pressure welded steel main-

Flatlands Avenue

\$ 744,207

Installation of dual governor valve, automatic shut-off valves and safety regulators in connection with rules, precautions and improvements prescribed in F.D.C. Case No. 15595.

Main at Gramercy Gate Station

333,336

134,750

Important units withdrawn from service:

Grampoint Works

No-products building

627,625

New Ridge Works

Major portion of production plant

3,748,490

Clifton Works

Major portion of production plant

750,732

Twelfth Street Station

All buildings and equipment

812,800

4. To effect the consolidation mentioned above in answer to Inquiry 2 respondent issued 320,000 shares of common capital stock on January 13, 1937. 320,000 shares were exchanged for 440,000 shares of Kings County Lighting Company common capital stock and 90,000 shares were exchanged for 13,000 shares of New York and Richmond Gas Company common capital stock. F.D.C. Order dated December 11, 1936, Case No. 47327.

7. Changes in rates:

Service	Effective	F.D.C. Order
Class, No.	Date	Date
1 and 2	March 1, 1937	-
4	October 18, 1937	October 1, 1937
3	October 25, 1937	-

Nature of Changes

Reduction and revision in residential and general rates which established system with rates for cover 75% of respondent's customers.

Reduction in heating and/or air conditioning rate and establishment of bi-monthly indexing and billing.

Reduction in seasonal off-peak rate.

8. Changes in scales of wages:

Effective April 1, 1937 the wages of approximately 3,400 weekly paid employees were increased \$4.02 per week in the case of employees paid on a salary basis and \$.10 per hour in the case of employees paid on an hourly basis. Also effective April 1, 1937 approximately 160 monthly paid employees were increased by \$200 per year.

9. Changes in articles of incorporation:

Certificate of Consolidation was filed with the Secretary of State January 15, 1937. In addition to the changes necessitated by the consolidation mentioned in answer to Inquiry 2, the Certificate of Consolidation changed the common capital stock from no par value to par value of \$10.00.

10 and 11. See Inquiry Sheet No. 11a

at end of year. Show like information for each plant held under lease at the end of the year and designate each such plant as leased.

3. In column (b) show each process used in the production of the gas and the number and kind of principal units of equipment identified with each such process; also the useful capacity, if used; indicate in the same column whether the facilities are for base-load or standby purposes. Entries in column (d) may be bracketed against two or more processes at a single location.

Designation and Location (a)	Production Facilities and Operating Status (See Instructions) (b)	24-Hour Capacity Mcf (c)	Book Cost Deduct Plant (d) (e)	
			(d)	(e)
Citygas Works 411 Hoyt Street Brooklyn, New York	oil gas process - 8 oil gas sets		34,000	7,260,000
Greenpoint Works Manhattan and Varick Avenues, Brooklyn, N. Y.	Oil gas process - 11 oil gas sets L.P. air process - 20 tank propane system Refinery air gas	(2)	61,000 15,000 1,000	30,554,000
	Respondent held no plant under lease at the end of the year.			
	All of the facilities shown above are for stand by purposes.			
	Quantities shown above represent estimated daily peak production capacity.			
	(1) Accounts 311 to 326			
	(2) Represents capacity for approximately 4 days.			

PRODUCTION PLANT STATISTICS

Report the indicated data relating to the operation of each gas producing plant. Entries on lines 10 to 22 should not include purchased gas which has been directly mixed but should include gas which has been reformer. Entries on lines 10 to 22 should include the principal fuels used, and it may be advisable to use more than one column for lines 11 to 22 when more than one kind of gas is produced at a single plant.

Item	Designation of Plant						Totals
	Oilwell Wells	Geopost Wells	Bay Ridge Wells	Golden Gate Wells			
	(1)	(2)	(3)	(4)	(5)	(6)	
Net gas produced (find and buy)							
Oil gas	1,042 Mscf	1,000	-	-			1,000
"	1,041	-	128,317	-	-		128,317
L.P. gas	1,040	-	1,078	-	-		1,000
Refinery oil gas	1,041	-	21,144	-	-		22,185
Maximum 24-hour make	774	46,333	-	-			47,107
Date of occurrence	Dec. 27, 1951	Dec. 17, 1950	-	-			Dec. 17, 1951
Fuel used, kind <u>oil</u>							
Unit <u>gallons</u>							
Quantity	31,081	2,287,000	-	-			2,318,081
Average cost per unit	.0005	.0000	-	-			.0001
Average lbs. per <u>gallon</u>	125,000	125,000	-	-			125,000
Fuel used, kind <u>bitumens</u>							
Unit <u>gallons</u>							
Quantity	-	51,247	-	-			51,247
Average cost per unit	-	.0011	-	-			.0011
Average lbs. per <u>gallon</u>	-	100,000	-	-			100,000
Fuel used, kind <u>refinery gas</u>							
Unit <u>thous</u>							
Quantity	-	287,000	-	-			287,000
Average cost per unit	-	.0000	-	-			.0000
Average lbs. per <u>thous</u>	-	2,000	-	-			2,000
Operation supervision and engineering	\$ 51,487.71	\$177,112.32	\$ 1,000.00	\$1,000.00	\$	\$	\$23,000.00
Operation labor (Accounts 700 to 701.1)	20,121.00	161,904.00	41,000.00	20,000.00			242,025.00
Fuel	3,224.00	226,800.00	2,512.00	100.00			232,636.00
All other operation expenses	61,258.35	156,791.77	41,000.00	20,000.00			279,049.12
Maintenance	120,844.00	687,400.00	15,000.00	11,000.00			834,244.00
Maximally produced - credit	12,042.80	71,800.15	-	-			83,842.95
All other expenses	8,622.65	10,000.00	2,000.00	2,000.00			22,622.65
Total Accounts 700 to 701.2	\$42,800.00	\$1,277,000.00	\$41,000.00	\$22,000.00			\$1,382,800.00
Reformed gas charged to Account 748							

GAS ACCOUNT

1. Report the indicated summation of gas transactions for the year, including gas which was released but not gas which was used for direct mining; the former should be treated as fuel. If mixed gas is distributed, it should be shown as such in column (6) to (7), but the constituent gases should be identified by production processes in column (6) to (7) unless mixed gas was purchased. Exclude liquid petroleum in storage, items representing quantities of gas should agree with the corresponding amounts shown elsewhere in this report.

Gas Available (See Instructions) (a)	Btu per cu. (b)	Quantity (c) M. Cubic Feet	Disposition (Specify kind when possible) (d)	Btu per cu. (e)	Quantity (f) M. Cubic Feet
In local storage - beg. of year (specify kind): High Btu gas	1,046	96,234	Sold High Btu gas	1,046	14,019,765
Natural gas purchased	1,046	47,506,550	Delivered to field storage		
Other gas purchased (specify kind):	-	-	Used by gas department (specify purpose):		
			Natural gas used for boiler fuel	1,046	671,236
			High Btu gas used for general purposes	1,046	150,107
			Used by other departments (specify departments):	-	-
Natural gas produced	-	-			
Other gas produced (specify kind):					
Oil gas	1,046	179,763	Other disposition or credit adjustments (describe):	-	-
Liquefied petroleum gas	1,046	3,908			
Refinery air gas	1,046	25,146			
			Lost and Unaccounted for:		
Withdrawn from field storage	-	-	In field storage		
Other receipts or debit adjustments (describe):			Other High Btu gas	1,046	2,525,017
Natural gas - line loss	1,046	99,192			
			In local storage - end of year		
			High Btu gas	1,046	81,234
Total	1,046	47,506,187	Total	1,046	47,506,187
Equivalent therm. Btu (a)		495,351,759			

2. State briefly the action, including quantities when available, in which any kind of gas was used directly in the production process (other than for releasing) which is not included above.

None

3. To the extent not otherwise indicated in this report show the approximate p.s.i.a. pressures which apply to measurement of the principal quantities listed above (for example, 14.7 for gas produced, 14.7 plus 2" for general consumption, etc.)

14.7 for gas purchased, 14.71 for gas produced and 14.7 plus 2.5" average W.C. for gas for general consumption.

ORIGINAL

1958

Report of **THE BROOKLYN UNION GAS COMPANY**

(After start, the crank supports, first, to individual case of the compressor, being portable, rigid in its construction, between the main structure and compressor.)

Located at 176 REMSEN STREET, BROOKLYN 1, NEW YORK

1000 1ST AVENUE, BROOKLYN 1, NEW YORK

TO THE

STATE OF NEW YORK

PUBLIC SERVICE COMMISSION

FOR THE YEAR ENDED DECEMBER 31, 1958

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 31, NEXT FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

Answers, Answers should be numbered in accordance with the inquiries; and if "none" states the fact, it should be used. If information which answers an inquiry is given elsewhere in the report, identification of the other answer will be sufficient.

1. Changes in rights to franchise services, i.e. distribution franchises or similar contracts: For each franchise surrendered show the name of the municipality, date of grant, and date of surrender. For each franchise acquired show the grantor, the date, the specific territory covered, the party from whom acquired, and the consideration.

2. Consolidations, mergers, and reorganizations: Give names of other companies involved, particulars of each such incident, date, and Commission authorization.

3. Purchase or sale of entire property, or of a part of property, when service territory is included: Give total description of each transaction, name of other party, date, consideration, and Commission authorization.

4. Lease of property (to or from another) of the kind covered by the preceding inquiry: To the extent applicable give details corresponding to those required by the preceding inquiry.

5. Additions to plant in service and retirements of plant—important units: Give total particulars and book amounts involved, the rule can be set down as to what constitutes an important unit, but re-

spondent will be expected to use reasonable judgment considering the size of the company and effect on operations.

6. Securities issued during the year: Identify the securities, give purposes of issuance, date, consideration received and Commission authorization. Do not use the term "securities" shall be taken to mean any capital stock or debt, the issuance of which requires prior authorization by this Commission.

7. Changes in rates: Show total particulars of each change, the service classification, effective date, and date ordered or allowed by the Commission.

8. Changes in scales of wages: Provide information with respect to important changes during the year.

9. Changes in articles of incorporation: Give total particulars each change and date.

10. Changes in general officers between end of period covered the report and date of filing thereof. Give total particulars.

11. Other important changes: Give total particulars of each of important change which is not disclosed elsewhere in this report.

1. None

2. None

3. None

4. None

5. Important unit added to plant in service:

Greenpoint Service Station	
Service station facilities	\$1,402,900
Canarsie Gate Station	
Gate station facilities	241,232
Van Wyck Gate Station	
Gate station facilities	171,707
Cliffton Gate Station	
Gate station facilities	114,419
Greenacre Service and Gate Station	
Gate station facilities	109,364
Mariners Harbor Gate Station	
Gate station facilities	108,682
Distribution Department	
Southern extension of New York Facilities	
natural gas line	109,364
Maine and services in connection with	
Brooklyn-Queens expressway	133,089
24" medium welded steel main -	
Flatlands Avenue	496,457

IMPORTANT CHANGES - Continued

5. Important units added to plant in service: (continued)

Distribution Department (continued)

Main at Delaware Gate Station

\$ 229,947

Important units withdrawn from service:

Slifflon Works

435,243

Slifflon works buildings and apparatus

New Ridge Station

199,043

Slifflon #4

Mariners Harbor Station

Slifflon

154,754

Miscellaneous

Sales of major portion of transportation fleet

to Commonwealth Systems Inc. for lease back under

Fleet Leasing Agreement

734,511

6. \$22,000,000 principal amount of First Mortgage Bonds, 4-1/2% Series due May 1, 1983, was issued on May 27, 1978 for \$22,072,575 (P.S.S. Order No. 10799). These securities were issued to provide funds for the liquidation of outstanding notes payable and to meet in part the cost of subsequent capital additions.

7. Changes in rates:

Service	Effective	P.S.S. Order	Nature of Change
Class. No.	Date	Date	
2	October 25, 1978	October 27, 1978	Reduction in rate for all consumption over 5,000 cubic feet per month and decrease in the number of consumption blocks.
3	December 1, 1978	-	Cancellation of the service classification.

8. Changes in scales of wages:

General wage increases during 1978 were as follows:-

Effective Date	Amount of Increase	Approximate number of employees
January 1, 1978	\$2.00 per week	70 (1)
January 1, 1978	.05 per hour	125 (1)
April 1, 1978	4.00 per week	1,400
April 1, 1978	.10 per hour	1,700
June 1, 1978	2.00 per week	70 (1)
June 1, 1978	.05 per hour	125 (1)
June 1, 1978	.10 per hour	100 (2)
June 1, 1978	.075 per hour (1)	160 (1)
June 1, 1978	.125 per hour (1)	100 (2)
August 17, 1978	4.00 per week	15 (2)

- (1) Employed by Kings County Lighting Company prior to consolidation.
- (2) Employed by New York and Richmond Gas Company prior to consolidation.
- (3) Average increases to bring wage scale of these employees into line with that of other employees performing similar jobs.

9, 10 and 11. See Insert Sheet No. 11a

[illegible]

[illegible][illegible][illegible]

PRODUCTION PLANT STATISTICS

Report the indicated data relating to the operation of each gas producing plant. Entries on lines 11 to 22 should not include purchased gas which has been directly mixed but should include gas which has been reformed. Entries on lines 23 to 25 should include the principal fuels used, and it may be desirable to use more than one column for lines 11 to 22 when more than one kind of gas is produced at a single plant.

Item	Designation of Plant						Totals
	Citizens Works	Greenspoint Works					
(a)	(1)	(2)	(3)	(4)	(5)	(6)	
Net gas produced (cubic and Btu)							
Oil gas 1,046,876	24,827	-					24,827
Oil gas 1,038	-	153,583					153,583
L.P. gas 1,061	-	563					563
Refinery air gas 1,038	-	22,496					22,496
Residuals (Btu credit)	15,883	23,861					39,744
Date of occurrence	Dec. 11, 1939	Feb. 18, 1939					Feb. 10, 1939
Fuel used, kind Oil							
Used gallon							
Quantity	360,312	2,314,912					2,675,224
Average cost per unit	.0083	.0081					.0082
Average Btu per gallon	143,000	143,000					143,000
Fuel used, kind Refinery gas							
Used gallon							
Quantity	-	6,052					6,052
Average cost per unit	-	.1074					.1074
Average Btu per gallon	-	101,000					101,000
Fuel used, kind Refinery gas							
Used therm							
Quantity	-	343,638					343,638
Average cost per unit	-	.0111					.0111
Average Btu per cubic foot	-	1,054					1,054
Operation supervision and engineering	51,283.21	174,886.05					226,169.26
Operation labor (exclusive POC to POC)	100,281.38	361,821.38					462,102.76
Fuel	33,128.53	171,131.37					204,260.90
All other operation expenses	61,008.76	263,508.03					324,516.79
Maintenance	101,286.36	300,878.68					402,165.04
Residuals produced credit	-	31,422.17					31,422.17
All other expenses	6,791.76	48,347.76					55,139.52
Total Accounts POC to POC	417,281.40	205,288.14					622,569.54
Reformed gas charged to Account 745	-	-					-

LOCAL STORAGE FACILITIES

Report the indicated particulars of local storage facilities. Units of less than 500 Maf capacity may be grouped on a company-wide basis and shown on a single item.

Location and Type (a)	Capacity Maf (b)	Location and Type (c)	Capacity Maf (d)
Tar seal holders:		Water seal holders (condensers):	
Jessie Station	10,000	Bay Ridge Station	5,000
Marquette Avenue Station	15,000		
Marquette Avenue Station	17,000		
Bay Ridge Station	5,000		
Water seal holders:			
Fifth Street Station	5,000		
Flatbush Station	5,000		
Flatbush Station	5,000		
Brooklyn Station	10,000		
Brooklyn Station	10,000		
Kythe Avenue Station	5,000		
Kythe Avenue Station	5,000	Total	97,500

SYSTEM OPERATION DATA

Report the indicated data in Maf separately for each operating division. If, in the territory named, zones having substantially different thermal characteristics are irregularly distributed, separate data should be reported regardless of whether or not the service is rendered in different operating divisions.

Item (a)	Designation of System					
	Capacity (b)	(c)	(d)	(e)	(f)	(g)
Maximum consecutive 24-hr demand	412,427					
January	754,085					
February	584,754					
March	425,004					
April	182,317					
May	312,553					
June	178,801					
July	185,338					
August	228,033					
September	413,440					
October	577,828					
November	607,003					
December	13,772					
Maximum hourly demand	5-6 P.M.					
Date and hour of each maximum	Feb. 17, 1955					
Gas consumed per	332					
Per unit of equivalent 1" main entire system						

GAS ACCOUNT

1. Report the indicated consumption of gas transactions for the year, including gas which was refunded but not gas which was used for direct mining; the latter should be treated as fuel. If mixed gas is distributed, it should be shown as such in columns (a) to (f), but the constituent gases should be identified by production processes in columns (a) to (f) unless mixed gas was purchased. Exclude liquid petroleum in storage, items representing quantities of gas should agree with the corresponding amounts shown elsewhere in this report.

Gas Available (See Instructions) (a)	Btu per cu. ft. (b)	Quantity (c) M. Cubic Feet	Disposition (Specify kind when possible) (d)	Btu per cu. ft. (e)	Quantity (f) M. Cubic Feet
In total storage - beg. of year (specify kind): High Pnu. gas	1,043	53,343	Sold High Pnu. gas	1,043	53,343,380
	1,040	54,553,589	Delivered to field storage	"	"
Natural gas purchased	"	"	Used by gas department (specify company):		
Other gas purchased (specify kind):			Natural gas used for boiler fuel	1,040	563,358
			High Pnu. gas used for general purposes	1,040	191,342
			Used by other departments (specify departments):	"	"
Natural gas produced	"	"			
Other gas produced (specify kind):	1,043	179,810	Other disposition or credit adjustments (describe):	"	"
Oil gas	1,043	250			
Liquefied petroleum gas	1,043	52,496	Lost and unaccounted for:		
Refinery oil gas	1,043		In field storage	"	"
			Other High Pnu. gas	1,040	3,444,175
Withdrawn from field storage	"	"			
Other receipts or debit adjustments (describe):	1,040	133,207	In total storage: end of year		
Natural gas-line loss	1,040		High Pnu. gas	1,043	52,408
Total	1,040	54,551,587	Total	1,040	54,551,587

Equivalent Barrels, Item 3d

2. Show briefly the extent, including quantities when available, to which any kind of gas was used directly in the production process (other than for refining) which is not included above.

None

3. To the extent not otherwise indicated in this report show the approximate p.s.i.a. pressures which apply to consumption of the principal quantities listed above (for example, 14.7 for gas produced, 14.7 plus 6" for general consumption, etc.)

14.7 for gas produced, 14.71 for gas produced and 14.7 plus 6.5" average p.s.i.a. for gas for general consumption.

ORIGINAL

YEAR ENDED
DECEMBER 31, 1959

Report of THE BROOKLYN UNION GAS COMPANY

(Here show the exact corporate, firm, or individual name of the respondent, bearing particular regard to the distinction between the trade names and companies)

Located at 176 REMSEN STREET, BROOKLYN 1, NEW YORK.

(Here give the location, including street and No., of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK

PUBLIC SERVICE COMMISSION

FOR THE YEAR ENDED DECEMBER 31, 1959

THIS IS A VERIFIED REPORT
NOTATIONS IN INK OR PENCIL
OR ANY OTHER MARKINGS
MUST NOT BE MADE THEREIN

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY 1, N. Y., NOT LATER THAN MARCH 31, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

IMPORTANT CHANGES

Report important changes of the types listed. Except as otherwise indicated data furnished should apply to the entire period the report covers. Answers should be confined to questions with the inquiries and if "none" states the fact, it should be used. If information which answers an inquiry is given elsewhere in the report, identification of the other source will be sufficient.

1. Changes in rights to furnish service, i.e. distribution facilities or station contracts: For each franchise contracted show dates of the municipality, date of grant, and date of execution. For each franchise acquired show the grantor, the date, the agreement making known, the party from whom acquired, and the consideration.

2. Consolidations, mergers, and reorganizations: Give names of all companies involved, particulars of each such incident, date, and Commission authorization.

3. Purchase or sale of real property, or of a part of property when service territory is included: Give brief description of each transaction, name of other party, date, consideration, and Commission authorization.

4. Lease of property (in or from another) of the kind covered by the preceding inquiry: To the extent applicable give details corresponding to those required by the preceding inquiry.

5. Additions to plant to service and refinements of plant: Important water: Give brief particulars and book amounts involved. No note can be set down as to what constitutes an important unit, but respondent will be expected to use reasonable judgment considering the size of the company and effect on operations.

6. Securities issued during the year: Identify the securities, give purposes of issuance, date, consideration received and Commission authorization. Do not omit "securities" shall be taken to mean any capital stock or debt, the issuance of which requires prior authorization by this Commission.

7. Changes to rates: Show brief particulars of each change, the service classification, effective date, and item ordered or allowed by the Commission.

8. Changes in scales of wages: Provide information with respect to important changes during the year.

9. Changes in articles of incorporation: Give brief particulars of such changes and date.

10. Changes in general officers between and of period covered by the report and date of filing thereof. Give brief particulars.

11. Other important changes: Give brief particulars of each other important change which is not disclosed elsewhere in this report.

1. By reason of the consolidation mentioned below in answer to Inquiry 2 respondent acquired the franchise of Brooklyn Borough Gas Company

2. Brooklyn Borough Gas Company was consolidated into the respondent effective June 1, 1939. P.E.C. order dated April 26, 1939 in Case #19488. (See answer to Inquiry 5 for particulars of stock issued to effect consolidation.)

3. None

4. None

5. Important units added to plant in service:

Greenpoint Service Station	
Service Station Facilities	
Cassady Gate Station	\$1,490,461
Gate Station Facilities	
Mariners Harbor Gate Station Project #2	111,047
Gate Station Facilities	
Distribution Department	100,374
Install Redwooder Main Rd-Marrows Crossing	
Install 30" N.Y. Natural Gas Line-Clover Lakes-S.I.	3,346,393
Install mains in connection with Kent Avenue	2,646,604
Intercepting Sewers	
	115,591

Important units withdrawn from service:

Bay Ridge Service Station	
Remaining buildings and apparatus	182,276

IMPORTANT CHANGES - Continued

(6) To effect the consolidation mentioned in answer to Inquiry 2 respondent issued 100,000 shares of Common Capital Stock, par value \$10 per share, on June 1, 1939, for 200,000 shares of Common Capital Stock on par value of the Brooklyn Borough Gas Company. P.B.C. order dated April 26, 1939, Case No. 19536.

(7) 8,313,418 outstanding shares of Common Capital Stock, \$10 per value per share, were split on two for one basis on November 9, 1939 resulting in outstanding shares of 16,626,836, \$10 per value. P.B.C. Case No. 19532 order dated October 24, 1939.

7. Changes in rates:

Service Classification	Effective Date	P.B.C. Order Dated	Nature of Change
P.C.No.1, P.B.C. No.2 Gas			Established the territory served by the former
P.C.No.2, P.B.C. No.2 Gas			Brooklyn Borough Gas
P.C.No.3, P.B.C. No.2 Gas	July 27, 1939	July 27, 1939	Company as a separate
P.C.No.4, P.B.C. No.2 Gas			rate zone for the
P.C.No.5, P.B.C. No.2 Gas			consolidated Company
P.C.No.6, P.B.C. No.2 Gas			by the issuance of
			P.B.C.No.9 Gas. Re-
			duced rates for most
			residential and com-
			mmercial customers served
			under the new schedule

8. Change in scales of wages:

General wage increases during 1939 were as follows:-

Effective Date	Amount of Increase	Approximate Number of Employees
April 1, 1939	\$6.00 per week	1,251
April 1, 1939	.15 per hour	1,815
June 1, 1939	4.00 per week	92 (1)
June 1, 1939	.10 per hour	139 (1)
June 1, 1939	6.00 per week	16 (2)
June 1, 1939	.15 per hour	166 (3)

(1) Employed by Brooklyn Borough Gas Company prior to consolidation

(2) Staten Island employees represented by Local #1 I.W.O.U.

9, 10 and 11 see insert sheet 11A

UNCOLLECTIBLE GAS OPERATING EXPENSE ITEMS

Report hereunder, for the year and separately for each account, particulars of charges to account for, Power from Other Sources, of credits to account for, Gas, Gasoline, Petroleum - Credit, of charges to account for, Non-productive Well Drilling, of charges to account for, Transmission and Compression of Gas by Others, and of charges and credits to the various accounts provided to cover the operation of gas facilities. When applicable, show quantities of the principal commodities involved, the name of the other party to the agreement, the identity of facilities involved, the number of wells drilled, the applicable charges or credits and, for joint facilities, the basis used for determining charges or credits.

Account 100 - Power from Other Sources

Electricity purchased from Consolidated Edison Company of New York, Inc.
\$ 75,750.00

Account 101 - Gasoline's Produced - Credit

Debit	Credit	
Gas	100,000.00	\$ 100,000.00
Gas and Gas Oil	1,000.00	1,000.00
Crude Light Oil	10,000.00	10,000.00
Crude Heavy Solvent	-	Loss on transfer
Crude Ethyl-Allyl	-	Loss on sale
		\$ 111,000.00

Account 102 - Non-productive Well Drilling - Base

Account 103 - Transmission and Compression of Gas by Others - Base

Account 104 - Rent from Gas Property

Amounts received representing carrying charges in connection with natural gas facilities provided under New York Facilities Agreement: -
Brooklyn Borough Gas Company
Consolidated Edison Company of New York, Inc.
Long Island Lighting Company
\$ 10,000.00
100,000.00
100,000.00
100,000.00

Account 105 - Distribution Costs

Amounts paid representing carrying charges in connection with natural gas facilities provided under New York Facilities Agreement: -
Consolidated Edison Company of New York, Inc.
\$ 100,000.00

Account 106 - Joint Expenses - Debit

Amounts paid representing respondent's portion of cost of operation and maintenance of natural gas facilities provided by other utilities under New York Facilities Agreement: -
Consolidated Edison Company of New York, Inc.
\$ 10,000.00

Account 107 - Joint Expenses - Credit

Amounts received representing other utilities portion of cost of operation and maintenance of natural gas facilities provided by respondent under New York Facilities Agreement: -
Brooklyn Borough Gas Company
Consolidated Edison Company of New York, Inc.
Long Island Lighting Company
\$ 10,000.00
10,000.00
10,000.00

Carrying charges and cost of operation and maintenance in connection with natural gas facilities are apportioned among the four utilities using such facilities on the basis of the contract demands of the utilities for natural gas, as provided in the New York Facilities Agreement.

The E.I.C. Co. 1959

LOCAL STORAGE FACILITIES

Report the indicated particulars of local storage facilities. Units of less than 300 Maf capacity may be grouped on a company-wide basis and shown on a single item.

Location and Type (a)	Capacity Maf (b)	Location and Type (c)	Capacity Maf (d)
Tar seal holders:		Water seal holders (continued)	
Janss Station	10,000	Wythe Avenue Station	5,000
Marzeth Avenue Station	15,000	Bay Ridge Station	5,000
Marzeth Avenue Station	17,000	Coney Island Station	5,000
Bay Ridge Station	5,000		
Water seal holders:		Oil seal holders:	
Fifth Street Station	5,000	Coney Island	10,000
Flatbush Station	5,000		
Flatbush Station	5,000		
Reveries Station	10,000		
Reveries Station	10,000		
Wythe Avenue Station	5,000		
		Total	100,000

SYSTEM OPERATION DATA

Report the indicated data in Maf separately for each operating division. If, in the territory covered, gases having substantially different thermal characteristics are regularly distributed, separate data should be reported regardless of whether or not the service is rendered in different operating divisions.

Item (a)	Designation of System						
	Capacity Maf (b)	(c)	(d)	(e)	(f)	(g)	(h)
Maximum consecutive 2-day send-out							
January	856,597						
February	775,150						
March	637,949						
April	451,368						
May	313,236						
June	261,709						
July	308,108						
August	328,674						
September	274,553						
October	420,300						
November	674,702						
December	755,049						
Maximum hourly send-out	15,714						
Date and hour of week maximum Feb. 19, 1959	7-8 AM						

Gas unsaturated for:

313

GAS ACCOUNT

1. Report the indicated consumption of gas transactions for the year, including gas which was delivered but not gas which was used for direct selling, the former should be shown as first, if mixed gas is distributed, it should be shown as such in column (2) to (5), but the constituent gases should be identified by production processes in column (6) to (7) where mixed gas was purchased. Exclude liquid petroleum gas storage. Items representing quantities of gas should agree with the corresponding accounts shown elsewhere in this report.

Gas Available (this Sub-account)	Gas per cu. (cu)	Quantity (cu) M.Cable Feet	Disposition (Specify kind when possible)	Gas per cu. (cu)	Quantity (cu) M.Cable Feet
In local storage - end of year (specify kind) -			Sold - High Pile gas	1,000	50,000,000
High Pile gas	1,000	50,000,000			
High Pile gas - Brooklyn					
Brooklyn Gas Company at 55.00	1,000	5,000			
			Delivered to field storage	-	-
Natural gas purchased	1,000	50,000,000			
Other gas purchased (specify kind) -	-	-	Used by gas department (specify process) -		
			Natural gas used for boiler fuel	1,000	50,000,000
			High Pile gas sold for general	1,000	50,000,000
			Delivered	-	-
Natural gas produced	-	-	Used by other departments (specify departments) -	-	-
Other gas produced (specify kind) -					
High Pile gas	1,000	50,000,000	Other disposition or credit adjustments (specify) -	-	-
Liquidated petroleum gas	1,000	500			
Delivered oil gas	1,000	5,000			
			Lost and Unaccounted for -		
Delivered from field storage	-	-	In field storage	-	-
Other receipts or credit adjustments (specify) -			Gas - High Pile gas	1,000	50,000,000
Natural gas - other loss	1,000	500,000			
			In local storage - end of year		
			High Pile gas	1,000	50,000,000
Total	1,000	50,000,000			
Estimated change, from 14		500,000,000	Total	1,000	50,000,000

2. Show briefly the values, including quantities when available, to which any kind of gas was used directly in the production process (other than for reheating) which is not included above.

None

3. To the extent not otherwise indicated in this report show the appropriate p.s.i.a. pressures which apply to measurement of the principal quantities listed above. For example, 14.7 for gas produced, 14.7 plus 6" for general consumption, etc.)

14.7 for gas purchased, 14.7 for gas produced and 14.7 plus 5.5" storage 14.7 for gas
for general consumption.

ORIGINAL

YEAR ENDED
DECEMBER 31, 1951

Report of ***The Brooklyn Union Gas Company***

(Show also the street address, city, or industrial name of the company, having particular regard to the location between the city, county and jurisdiction)

Located at ***176 Remsen Street, Brooklyn 2, N.Y.***

(Show also the location, including street and No., of the accountant's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1951

THIS IS A VERIFIED REPORT
NOT TO BE USED FOR ANY OTHER
OR ANY OTHER PURPOSES
MUST NOT BE MADE THEREIN

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 15, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.

414. GAS PLANTS—MANUFACTURED GAS

1. Show the location and the designation of each of the several manufactured gas plants in the service of the respondent at the end of the year. For other processes of manufacture, give details corresponding to those required for water gas and coal gas. The entries in columns 101, 102, 103, and 104 should show the total in-house gas capacity of each plant considering limitations on output imposed by existing equipment.

2. If any plant was built or expanded under any title other than full ownership, give full particulars in a footnote.

d i s t r i c t	Location and designation of plant	Number of units			In-house output capacity, M cu ft			
		Gas	Coke	Steam	Water gas	Coal gas	Other processes (specify)	
							L.P.G. Air	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Manhasset and Varick Avenues, Brooklyn							
2	Coke Oven Gas - Greenpoint Works		90			23,000		
3	433 Hoyt Street, Brooklyn - Citizens Works	10			67,000			
4	Manhasset and Varick Avenues, Brooklyn							
5	Water Gas - Greenpoint Works	11			163,000 *		12,000 **	
6								
7	Notes: The quantities shown above represent estimated daily peak production capacity.							
8	* Includes 36,000 M.C.F. of natural and producer gas. ** Represents capacity for 5 to 6 days.							

415. WATER GAS SETS

Show hereunder requested particulars of water gas sets located in water gas plants listed in schedule 414.

d i s t r i c t	Designation of plant	Number of sets	Name of maker			Coke gas in capacity for each set	In-house capacity, M.C.F.
			(a)	(b)	(c)		
1	Citizens Works	4	Bartlett-Rayward Co.	1906		68	14,000
2	" "	3	" " "	1921		68	24,000
3	" "	3	" " "	1924		68	20,000
4	" "	5	" " "	1927		68	61,000
5	Greenpoint Works	2	United Engineers & Constructors, Inc.	1946	"	64	20,000
6	" "	3	" " " " "	1948	"	79	40,000

* Mechanical Generators

416. BUILDINGS

1. Show hereunder the requested particulars of gas holders in possession of respondent at the end of the year.

2. If any such units were built under any title other than full ownership, give full particulars in a footnote.

d i s t r i c t	Designation of plant or system	Works and building				Status		
		Number of units	Maker or builder	Year installed	Capacity, cu. ft.	Number of units	Status or holder	Year installed
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	See insert sheet 411a							
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400 Buildings

Supplement to Schedule 470 Page 421

Line No.	Works and Utilities				Buildings			
	Designation of Plant or Station (a)	Number of Units (b)	Maker or Builder (c)	Year Installed (d)	Capacity Cu. Ft. (e)	Maker or Builder (f)	Year Installed (g)	Capacity Cu. Ft. (h)
1	Citizens Works	-				1	Bartlett-Bayward Co. 1938	800,000
2	Greenpoint Works- Water Gas	-				2	" " " 1939	1,000,000
3	McMurt Ave. Station	1	Bartlett-Bayward Co.	1903	1,000,000			
4	Fifth St. Station	1	" " "	1903	1,000,000			
5	Flatbush Station	1	" " "	1909	1,000,000			
6	Flatbush Station	1	" " "	1904	1,000,000			
7	Jonestown Station	1	Hoppers Company, Inc.	1908	10,000,000			
8	Hempth Ave. Station	1	Bartlett-Bayward Co.	1907	10,000,000			
9	Hempth Ave. Station	1	Hoppers Company, Inc.	1909	10,000,000			
10	Newtown Station	1	Bartlett-Bayward Co.	1901	10,000,000			
11	Newtown Station	1	" " "	1901	10,000,000			
12	Tenth St. Station	1	" " "	1905	1,000,000			
13	Myrtle Ave. Station	1	" " "	1905	1,000,000			
14	Myrtle Ave. Station	1	" " "	1908	1,000,000			
		<u>14</u>			<u>22,000,000</u>			<u>1,000,000</u>

Producer Gas Buildings

Greenpoint Works						1	Western Gas Const. Co. 1908	40,000
Coke Oven Gas								

Invest Report No. 421a

[illegible]

Description of Service	Citizens Works		Greenpoint Works		Greenpoint Works	
	Working, Cans	Working, Cans	Coke, Cans	Coke, Cans	Working, Cans	Working, Cans
1. General maintenance, including street work			222,168.72		222,168.72	
2. Work on and to, and on, R.R.			5.43		5.43	
3. General maintenance, including on, under, or within			90		90	
4. General maintenance, including on, under, or within			27,364		27,364	
5. General maintenance, including on, under, or within			13.74		13.74	
6. General maintenance, including on, under, or within			254,484		254,484	
7. General maintenance, including on, under, or within			609,400.77		609,400.77	
8. General maintenance, including on, under, or within			.78		.78	
9. General maintenance, including on, under, or within			6,860,117		6,860,117	
10. General maintenance, including on, under, or within			8.74		8.74	
11. General maintenance, including on, under, or within			-		-	
12. General maintenance, including on, under, or within			4,868,379		4,868,379	
13. General maintenance, including on, under, or within			48,113.10		48,113.10	
14. General maintenance, including on, under, or within			6,771,253		6,771,253	
15. General maintenance, including on, under, or within			127		127	
16. General maintenance, including on, under, or within			74.3		74.3	
17. General maintenance, including on, under, or within			22,438.30		22,438.30	
18. General maintenance, including on, under, or within			3,512,736		3,512,736	
19. General maintenance, including on, under, or within			1.00		1.00	
20. General maintenance, including on, under, or within			4		4	
21. General maintenance, including on, under, or within			230		230	
22. General maintenance, including on, under, or within			7,851		7,851	
23. General maintenance, including on, under, or within			6.85		6.85	
24. General maintenance, including on, under, or within			11,807,617		11,807,617	
25. General maintenance, including on, under, or within			32.76		32.76	
26. General maintenance, including on, under, or within			.63		.63	
27. General maintenance, including on, under, or within			6.38		6.38	
28. General maintenance, including on, under, or within			138,500		138,500	
29. General maintenance, including on, under, or within			185,766		185,766	
30. General maintenance, including on, under, or within			-		-	
31. General maintenance, including on, under, or within			328,875		328,875	
32. General maintenance, including on, under, or within			-		-	
33. General maintenance, including on, under, or within			534		534	
34. General maintenance, including on, under, or within			528		528	
35. General maintenance, including on, under, or within			528		528	
36. General maintenance, including on, under, or within			528		528	
37. General maintenance, including on, under, or within			528		528	
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44. General maintenance, including on, under, or within			528		528	
45. General maintenance, including on, under, or within			528		528	
46. General maintenance, including on, under, or within			528		528	
47. General maintenance, including on, under, or within			528		528	
48. General maintenance, including on, under, or within			528		528	
49. General maintenance, including on, under, or within			528		528	
50. General maintenance, including on, under, or within			528		528	

Explosion L. F. Gas

Explosion I. F. Gas

For instructions see insert about U.S. AIR FIELD STATION OF GAS

For completed reports, reports are sent to the nearest post office, where they are placed in the nearest mail box, separately for each field, and state all quantities of gas in the

- (a) Location or description of field
- (b) Number of cells
- (c) Seed storage
- (d) Harvested seed storage quantity
- (e) Date and time of storage starting point
- (f) Date and time from storage starting point
- (g) Loss of seed mass from storage
- (h) Loss of seed mass as a percent
- (i) Loss of storage oil as a percent
- (j) Loss of storage protein as a percent

100

101. INFORMATION ON QUANTITIES AVAILABLE AND DISTRIBUTION—GAS

101-1. Show the estimated information in terms of M cu. ft. reported in 101-2, and
 101-3. The number in 101-4 includes quantities for field storage.

101-2. Before line 12 quantities should be segregated for those only in the system that
 the information is available, i.e., quantities remaining in United gas of existing gas.

101-3. The gas should identify all gas as "United" regardless of the disposition of the quantities in these items
 101-4.

101-5. The gas should identify quantities gas used in those other items of gas used
 for other purposes, for example gas used for heating and lighting for existing quantities
 of gas.

Item	Type of gas (quantity in this case, natural, subject, and)				Totals	J
	Water Gas	Coal Oven Gas	L.P. Gas			
(a) On hand at beginning of year ¹	—	—	—	—	79,689	1
Gas obtained during year	—	—	—	—	—	2
By production	28,533,136	8,664,007	568	—	37,197,711	3
By purchase	—	—	—	—	—	4
Delivered from field storage	—	—	—	—	—	5
Other (specify)	—	—	—	—	—	6
By transfer of product	—	—	—	—	—	7
GAS	1,666,750	24,238	—	—	1,690,988	8
Totals, line 1 to 11	—	—	—	—	39,320,440	9
Gas obtained during year	—	—	—	—	—	10
Gas in delivery contracts	—	—	—	—	—	11
Gas in other offices for resale	—	—	—	—	37,213,328	12
Delivered to field storage	—	—	—	—	—	13
Used in gas department	—	—	—	—	—	14
Residual without change	—	—	—	—	119,684	15
Other (specify)	—	—	—	—	—	16
*Includes 7,533,368 M.C.F. of natural gas used for marketing	—	—	—	—	—	17
Unaccounted for	—	—	—	—	1,107,344	18
Totals, line 12 to 18	—	—	—	—	39,113,096	19
On hand at end of year ²	—	—	—	—	83,908	20

102. SYSTEM GAS DISTRIBUTION—GAS

102-1. Show the estimated information in terms of M cu. ft. Under column in 102-2, quantities reported. Attach a statement showing the personnel data for each department system.

Item	Maximum consumption (M cu. ft.)		J
	(a)	(b)	
(a) Monthly demand—	—	—	1
January	553,563	178,989	2
February	564,006	207,038	3
March	631,687	168,232	4
April	388,827	134,515	5
May	387,864	107,000	6
June	375,432	93,404	7
July	387,091	79,772	8
August	236,343	73,667	9
September	250,305	97,843	10
October	145,751	121,848	11
November	303,219	151,863	12
December	573,623	203,371	13
(b) Maximum loads and use during year	—	—	14
Date and time of each maximum	February 8, 1951 - 5 P.M. 14 M.C.F.	12,430	15
(c) Unaccounted for gas per mile of distribution (M cu. ft.)	—	—	16
(d) Storage capacity (including field storage) at end of year	—	200	17
	—	25,876	18

¹ Excludes gas in field storage.

USE OF RESIDUALS

Show the material information concerning gas-making materials produced and disposed of during the year.

Line No.	Fuel	Quantities handled during year						Calculated to basis 700,000/100 tons	Residuals disposed	Residuals from sales	Residuals carried over
		On hand Jan 1	On hand at beginning of year	Made	Bought	Used	On hand at year end				
	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)	(gal)
1	Water gas tar	Gal.	1,337,642	4,337,646	793,609	3,173,300	123,319	261,213.97	73.33	33,417.34	01
2	Slip and tar oil	Gal.	129,122	72,403	123,877	-	57,560	12,085.36	-	17,241.02	14
3	Coke (1)	Net ton	37,278.06	613,711.37	362,841.43	185,987.62	7,139.18	7,437,376.71	309,142.63	3,167,403.13	13 16
4	Green gas tar	Gal.	134,000	6,860,117	6,810,117	-	204,000	635,795.71	-	634,600.74	09
5	Sulphate of ammonia	Net ton	523.01	7,679.32	7,557.05	-	642.28	279,148.86	17,258.84	296,407.70	19 12
6	Naphthalene	Lb.	-	1,007,047	1,007,047	-	-	43,791.37	-	43,791.37	04
7	Motor fuel	Gal.	243,168	1,966,845	2,383,673	-	196,341	626,123.43	-	624,366.16	31
8	Residual distillate (2)	Gal.	11,049	32,723	16,183	8,668	1,003	4,747.44	214,443.55	1,777.32	14
9	Crude heavy solvent	Gal.	43,426	499,677	508,371	6,000	23,122	105,568.54	-	111,541.69	28
								Total	3,842,612.61	320,810.57	3,521,802.04

(1) Quantity made, column (6), includes 1,340.80 net tons purchased

(2) Amount in column (1) represents residuals expense on Motor fuel, Residual Distillate and Crude heavy solvent which cannot be stated separately.

305. Important Changes During the Year

Line No.	Expenditure No.	Cost
1	6. Important waste of plant and equipment installed or permanently withdrawn from service during the year.	
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Location and Description

Installed

Greenpoint Works

Additional cost for the installation of equipment, bearing and piping for the utilization of natural gas (Reported in 1956)

\$118,702.00

Citizens Works

Conversion of pumping station and blacksmith shop into an accommodation room

117,817.00

Additional cost for the installation of equipment, bearing and piping for the utilization of natural gas (Reported in 1956)

116,666.00

Distribution System

Additional costs for the installation of 66,713' of welded steel main, including one-half of cost of submarine crossing under Newtown Creek, for the utilization of natural gas (Reported in 1956)

23,990.00

Approximately 4.83 miles of 36" main from 101st Avenue and 134th Street to 140th Avenue and 219th Street, Queens.

562,314.00

Withdrawn From Service

Twelfth Street Station

Boiler house and associated equipment, coal hopper and derrick

129,793.00

ORIGINAL

YEAR ENDED
DECEMBER 31, 1950

Report of ***The Brooklyn Union Gas Co.***

(Here show the exact corporate form, or assumed name of the corporation, having particular regard to the distinction between the words "corporation" and "company")

Located at ***176 Remsen St Brooklyn 2, N.Y.***

(Here give the location, including street and No., of the corporation's main business office within the State)

TO THE

THIS IS A VERIFIED REPORT.
NOTATIONS IN INK OR PENCIL
OR ANY OTHER MARKINGS
MUST NOT BE MADE THEREON.

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1950

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY 1, N. Y., NOT LATER THAN MARCH 15, NEXT
FOLLOWING THE END OF THE YEAR COVERED BY THE REPORT.



2. If any such plant was built for treatment under any title other than full capacity, give full particulars in a footnote.

3. If any such plant was built for treatment under any title other than full capacity, give full particulars in a footnote.

No.	Location and description of plant	Number of units			Water gas	Coal gas	Other process (specify)	
		Gas	Steam	Electric			L. F. Air	L. F. Producer
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Wapahank and Varick Avenues, Brooklyn		90			23,000		
2	Edison Gas Co. - Greenpoint Works	10			52,000			
3	170 West Street, Brooklyn-Williams Works	11			100,000*		28,000**	10,000**
4	Wapahank and Varick Avenues, Brooklyn							
5	Edison Gas Co. - Greenpoint Works							

*Notes: The quantities shown above represent estimated daily peak production capacity.

**Includes 20,000 M.C.F. refinery and producer gas. **Represent capacity for 1 to 24 days.

SEE TABLES 2 AND 3.

These quantities represent production of water gas and steam in water gas plants listed in schedule 2.

No.	Description of plant	Number of units	Name of maker	Year installed	Gross area in square feet (exclusive of roof)	Value, \$1000
1	Edison	1	Edison	1900	60	10,000
2	Edison Works	2	Edison	1901	60	10,000
3	" "	3	" "	1902	60	10,000
4	" "	4	" "	1907	60	10,000
5	Greenpoint Works	2	United Engineers & Constructors	1906	60	20,000
6	" "	3	" "	1908	70	30,000

Mechanical Conversions

4. If any such plant was built for treatment under any title other than full capacity, give full particulars in a footnote.

5. Show elsewhere the required particulars of gas holders in general in the case of the gas.

6. If any such plant was built under any title other than full capacity, give full particulars in a footnote.

No.	Description of plant or plant	Works and building				Stack			
		Number of units	Water in holder	Year installed	Capacity, cu. ft.	Number of units	Water in holder	Year installed	Capacity, cu. ft.
1	See insert sheet 411a								
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420 - Holders

No.	Designation of Plant or Station (1)	Number of Boilers (2)	Works and Buildings			Year Installed (4)	Capacity Cu. Ft. (5)	Number of Boilers (7)	Boiler			Year Installed (9)	Capacity Cu. Ft. (10)
			Maker or Builder (3)	Maker or Builder (8)	Maker or Builder (6)								
"	Citizens Works	-						1	Bartlett-Hayward Co.			1930	800,000
"	Greenpoint Works- Water Gas	-						1	"	"	"	1927	1,007,000
"	Belmont Ave. Station	1	Bartlett-Hayward Co.			1903	3,200,000						
"	Fifth St. Station	1	"	"	"	1923	5,000,000						
"	Flatbush Station	1	"	"	"	1909	5,000,000						
"	Flatbush Station	1	"	"	"	1924	5,000,000						
"	Jameica Station	1	Koppers Company, Inc.			1948	10,000,000						
"	Kingspath Ave. Station	1	Bartlett-Hayward Co.			1927	15,000,000						
"	Kingspath Ave. Station	1	Koppers Company, Inc.			1949	17,000,000						
"	Sevenson Station	1	Bartlett-Hayward Co.			1911	10,000,000						
"	Sevenson Station	1	"	"	"	1921	10,000,000						
"	Twelfth St. Station	1	"	"	"	1905	5,000,000						
"	Wythe Ave. Station	1	"	"	"	1903	5,000,000						
"	Wythe Ave. Station	1	"	"	"	1908	5,000,000						
		<u>12</u>					<u>95,870,000</u>	<u>2</u>					<u>1,807,000</u>

Producer Gas Holder

"	Greenpoint Works- Coke Oven Gas						1	Western Gas Const. Co.		1931	10,000
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U.S. Energy Information Administration, "U.S. Natural Gas Production and Consumption," *Monthly Energy Review*, 1997, 20-22.

1. All credit entries in this schedule should be made in red ink.

Line	Item	Class	Columbia Gas System		General Gas System		General Gas System		Total
			Plant	Gas	Plant	Gas	Plant	Gas	
1	Gas System Maintenance and Engineering	A	100,333.42	101,219.43	104,634.85	101,659.35	1,122.00	408,949.05	
2	Gas Meters and Other Gas Meters	A	84,334.68	74,164.20	—	—	—	158,498.88	
3	Gas Gas and Producer Gas Meters	A	—	—	—	—	—	—	
4	Gas Meters	A	—	—	—	—	—	—	
5	Gas Gas Meters	A	—	—	—	377,790.48	—	377,790.48	
6	Gas Producer Gas Meters	A	—	—	—	369,472.86	—	369,472.86	
7	Gas Gas Generating Meters	A	—	—	—	—	—	—	
8	Gas Water Gas Generating Meters	A	131,686.13	413,413.43	—	—	—	545,099.56	
9	Gas Producer Gas Generating Meters	A	—	—	—	—	5,443.00	5,443.00	
10	Gas Other Gas Generating Meters	A	—	—	—	—	—	—	
11	Gas Gas Refining Meters	A	—	—	—	—	—	—	
12	Gas Purification Meters	A	36,479.59	36,840.91	—	32,679.47	—	69,990.97	
13	Gas Purification Meters	A	36,097.47	49,637.41	—	80,713.23	—	165,448.11	
14	Gas Purification Meters	A	213,391.30	170,641.39	—	129,953.89	—	513,986.58	
15	Gas Water Gas	A	323,836.73	667,766.68	—	—	—	991,603.41	
16	Gas Water	A	32,339.44	90,698.38	—	72,602.55	—	195,640.37	
17	Gas Water Meters	A	—	—	—	—	—	—	
18	Gas Water Gas Meters	A	—	—	—	—	—	—	
19	Gas Producer Gas Meters	A	—	—	—	3,505,818.36	—	3,505,818.36	
20	Gas Gas Meters	A	—	—	—	—	—	—	
21	Gas Gas Meters	A	—	—	—	8,110,592.41	—	8,110,592.41	
22	Gas Water Gas Generator Meters	A	774,313.65	2,361,314.60	—	—	—	3,135,628.25	
23	Gas Gas Water Gas	A	1,364,838.92	3,763,340.52	—	—	—	5,128,179.44	
24	Gas Generator	A	—	932,379.35	—	—	—	932,379.35	
25	Gas Producer Gas	A	—	—	—	—	35,582.43	35,582.43	
26	Gas Gas Gas	A	—	—	—	—	—	—	
27	Gas Materials for Other Gas Process	A	—	—	—	—	—	—	
28	Gas Purification Meters	A	72,679.35	92,433.90	—	39,979.16	—	205,092.41	
29	Gas Purification Meters	A	47,413.57	366,710.38	—	82,667.42	60.85	496,791.82	
30	Gas Gas Generator Meters	A	2,070,659.59	9,141,380.88	104,634.85	10,708,728.27	41,490.00	22,965,893.40	
31	Gas Gas Generator Meters	A	40,593.52	33,361.90	11,853.48	67,230.13	—	153,039.03	
32	Gas Gas Generator Meters	A	40,952.02	76,275.87	—	67,493.89	—	178,721.78	
33	Gas Gas Generator Meters	A	—	—	—	—	—	—	
34	Gas Gas Generator Meters	A	54,316.52	58,197.87	—	—	—	112,514.39	
35	Gas Gas Generator Meters	A	1,064.89	4,817.16	—	8,328.34	—	14,209.39	
36	Gas Gas Generator Meters	A	—	—	—	—	—	—	
37	Gas Gas Generator Meters	A	—	—	—	—	—	—	
38	Gas Gas Generator Meters	A	—	—	—	—	—	—	
39	Gas Gas Generator Meters	A	—	—	—	—	—	—	
40	Gas Gas Generator Meters	A	—	—	—	—	—	—	
41	Gas Gas Generator Meters	A	—	—	—	—	—	—	
42	Gas Gas Generator Meters	A	—	—	—	—	—	—	
43	Gas Gas Generator Meters	A	—	—	—	—	—	—	
44	Gas Gas Generator Meters	A	—	—	—	—	—	—	
45	Gas Gas Generator Meters	A	—	—	—	—	—	—	
46	Gas Gas Generator Meters	A	—	—	—	—	—	—	
47	Gas Gas Generator Meters	A	—	—	—	—	—	—	
48	Gas Gas Generator Meters	A	—	—	—	—	—	—	
49	Gas Gas Generator Meters	A	—	—	—	—	—	—	
50	Gas Gas Generator Meters	A	—	—	—	—	—	—	
51	Gas Gas Generator Meters	A	—	—	—	—	—	—	
52	Gas Gas Generator Meters	A	—	—	—	—	—	—	
53	Gas Gas Generator Meters	A	—	—	—	—	—	—	
54	Gas Gas Generator Meters	A	—	—	—	—	—	—	
55	Gas Gas Generator Meters	A	—	—	—	—	—	—	
56	Gas Gas Generator Meters	A	—	—	—	—	—	—	
57	Gas Gas Generator Meters	A	—	—	—	—	—	—	
58	Gas Gas Generator Meters	A	—	—	—	—	—	—	
59	Gas Gas Generator Meters	A	—	—	—	—	—	—	
60	Gas Gas Generator Meters	A	—	—	—	—	—	—	
61	Gas Gas Generator Meters	A	—	—	—	—	—	—	
62	Gas Gas Generator Meters	A	—	—	—	—	—	—	
63	Gas Gas Generator Meters	A	—	—	—	—	—	—	
64	Gas Gas Generator Meters	A	—	—	—	—	—	—	
65	Gas Gas Generator Meters	A	—	—	—	—	—	—	
66	Gas Gas Generator Meters	A	—	—	—	—	—	—	
67	Gas Gas Generator Meters	A	—	—	—	—	—	—	
68	Gas Gas Generator Meters	A	—	—	—	—	—	—	
69	Gas Gas Generator Meters	A	—	—	—	—	—	—	
70	Gas Gas Generator Meters	A	—	—	—	—	—	—	
71	Gas Gas Generator Meters	A	—	—	—	—	—	—	
72	Gas Gas Generator Meters	A	—	—	—	—	—	—	
73	Gas Gas Generator Meters	A	—	—	—	—	—	—	
74	Gas Gas Generator Meters	A	—	—	—	—	—	—	
75	Gas Gas Generator Meters	A	—	—	—	—	—	—	
76	Gas Gas Generator Meters	A	—	—	—	—	—	—	
77	Gas Gas Generator Meters	A	—	—	—	—	—	—	
78	Gas Gas Generator Meters	A	—	—	—	—	—	—	
79	Gas Gas Generator Meters	A	—	—	—	—	—	—	
80	Gas Gas Generator Meters	A	—	—	—	—	—	—	
81	Gas Gas Generator Meters	A	—	—	—	—	—	—	
82	Gas Gas Generator Meters	A	—	—	—	—	—	—	
83	Gas Gas Generator Meters	A	—	—	—	—	—	—	
84	Gas Gas Generator Meters	A	—	—	—	—	—	—	
85	Gas Gas Generator Meters	A	—	—	—	—	—	—	
86	Gas Gas Generator Meters	A	—	—	—	—	—	—	
87	Gas Gas Generator Meters	A	—	—	—	—	—	—	
88	Gas Gas Generator Meters	A	—	—	—	—	—	—	
89	Gas Gas Generator Meters	A	—	—	—	—	—	—	
90	Gas Gas Generator Meters	A	—	—	—	—	—	—	
91	Gas Gas Generator Meters	A	—	—	—	—	—	—	
92	Gas Gas Generator Meters	A	—	—	—	—	—	—	
93	Gas Gas Generator Meters	A	—	—	—	—	—	—	
94	Gas Gas Generator Meters	A	—	—	—	—	—	—	
95	Gas Gas Generator Meters	A	—	—	—	—	—	—	
96	Gas Gas Generator Meters	A	—	—	—	—	—	—	
97	Gas Gas Generator Meters	A	—	—	—	—	—	—	
98	Gas Gas Generator Meters	A	—	—	—	—	—	—	
99	Gas Gas Generator Meters	A	—	—	—	—	—	—	
100	Gas Gas Generator Meters	A	—	—	—	—	—	—	
101	Gas Gas Generator Meters	A	—	—	—	—	—	—	
102	Gas Gas Generator Meters	A	—	—	—	—	—	—	
103	Gas Gas Generator Meters	A	—	—	—	—	—	—	
104	Gas Gas Generator Meters	A	—	—	—	—	—	—	
105	Gas Gas Generator Meters	A	—	—	—	—	—	—	
106	Gas Gas Generator Meters	A	—	—	—	—	—	—	
107	Gas Gas Generator Meters	A	—	—	—	—	—	—	
108	Gas Gas Generator Meters	A	—	—	—	—	—	—	
109	Gas Gas Generator Meters	A	—	—	—	—	—	—	
110	Gas Gas Generator Meters	A	—	—	—	—	—	—	
111	Gas Gas Generator Meters	A	—	—	—	—	—	—	
112	Gas Gas Generator Meters	A	—	—	—	—	—	—	
113	Gas Gas Generator Meters	A	—	—	—	—	—	—	
114	Gas Gas Generator Meters	A	—	—	—	—	—	—	
115	Gas Gas Generator Meters	A	—	—	—	—	—	—	
116	Gas Gas Generator Meters	A	—	—	—	—	—	—	
117	Gas Gas Generator Meters	A	—	—	—	—	—	—	
118	Gas Gas Generator Meters	A	—	—	—	—	—	—	
119	Gas Gas Generator Meters	A	—	—	—	—	—	—	
120	Gas Gas Generator Meters	A	—	—	—	—	—	—	
121	Gas Gas Generator Meters	A	—	—	—	—	—	—	
122	Gas Gas Generator Meters	A	—	—	—	—	—	—	
123	Gas Gas Generator Meters	A	—	—	—	—	—	—	
124	Gas Gas Generator Meters	A	—	—	—	—	—	—	
125	Gas Gas Generator Meters	A	—	—	—	—	—	—	
126	Gas Gas Generator Meters	A	—	—	—	—	—	—	
127	Gas Gas Generator Meters	A	—	—	—	—	—	—	
128	Gas Gas Generator Meters	A	—	—	—	—	—	—	
129	Gas Gas Generator Meters	A	—	—	—	—	—	—	
130	Gas Gas Generator Meters	A	—	—	—	—	—	—	
131	Gas Gas Generator Meters	A	—	—	—	—	—	—	
132	Gas Gas Generator Meters	A	—	—	—	—	—	—	
133	Gas Gas Generator Meters	A	—	—	—	—	—	—	
134	Gas Gas Generator Meters	A	—	—	—	—	—	—	
135	Gas Gas Generator Meters	A	—	—	—	—	—	—	
136	Gas Gas Generator Meters	A	—	—	—	—	—	—	
137	Gas Gas Generator Meters	A	—	—	—	—	—	—	
138	Gas Gas Generator Meters	A	—	—	—	—	—	—	
139	Gas Gas Generator Meters	A	—	—	—	—	—	—	
140	Gas Gas Generator Meters	A	—	—	—	—	—	—	
141	Gas Gas Generator Meters	A	—	—	—	—	—	—	
142	Gas Gas Generator Meters	A	—	—	—	—	—	—	
143	Gas Gas Generator Meters	A	—	—	—	—	—	—	
144	Gas Gas Generator Meters	A	—	—	—	—	—	—	
145	Gas Gas Generator Meters	A	—	—	—	—	—	—	
146	Gas Gas Generator Meters	A	—	—	—	—	—	—	
147	Gas Gas Generator Meters	A	—	—	—	—	—	—	
148	Gas Gas Generator Meters	A	—	—	—	—	—	—	
149	Gas Gas Generator Meters	A	—	—	—	—	—	—	
150	Gas Gas Generator Meters	A	—	—	—	—	—	—	
151	Gas Gas Generator Meters	A	—	—	—	—	—	—	
152	Gas Gas Generator Meters	A	—	—	—	—	—	—	
153	Gas Gas Generator Meters	A	—	—	—	—	—	—	
154	Gas Gas Generator Meters	A	—	—	—	—	—	—	
155	Gas Gas Generator Meters	A	—	—	—	—	—	—	
156	Gas Gas Generator Meters	A	—	—	—	—	—	—	
157	Gas Gas Generator Meters	A	—	—	—	—	—	—	
158	Gas Gas Generator Meters	A	—	—	—	—	—	—	
159	Gas Gas Generator Meters	A	—	—	—	—	—	—	
160	Gas Gas Generator Meters	A	—	—	—	—	—	—	
161	Gas Gas Generator Meters	A	—	—	—	—	—	—	
162	Gas Gas Generator Meters	A	—	—	—	—	—	—	
163	Gas Gas Generator Meters	A	—	—	—	—	—	—	
164	Gas Gas Generator Meters	A	—	—	—	—	—	—	
165	Gas Gas Generator Meters	A	—	—	—	—	—	—	
166	Gas Gas Generator Meters	A	—	—	—	—	—	—	
167	Gas Gas Generator Meters	A	—	—	—	—	—	—	
168	Gas Gas Generator Meters	A	—	—	—	—	—	—	
169	Gas Gas Generator Meters	A	—	—	—	—	—	—	
170	Gas Gas Generator Meters	A	—	—	—	—	—	—	
171	Gas Gas Generator Meters	A	—	—	—	—	—	—	
172	Gas Gas Generator Meters	A	—	—	—	—	—	—	
173	Gas Gas Generator Meters	A	—	—	—	—	—	—	
174	Gas Gas Generator Meters	A	—	—	—	—	—	—	
175	Gas Gas Generator Meters	A	—	—	—	—	—	—	
176	Gas Gas Generator Meters	A	—	—	—	—	—	—	
177	Gas Gas Generator Meters	A	—	—	—	—	—	—	
178	Gas Gas Generator Meters	A	—	—	—	—	—	—	
179	Gas Gas Generator Meters	A	—	—	—	—	—	—	
180	Gas Gas Generator Meters	A	—	—	—	—	—	—	
181	Gas Gas Generator Meters	A	—	—	—	—	—	—	
182	Gas Gas Generator Meters	A	—	—	—	—	—	—	
183	Gas Gas Generator Meters	A	—	—	—	—	—	—	
184	Gas Gas Generator Meters	A	—	—	—	—	—	—	
185	Gas Gas Generator Meters	A	—	—	—	—	—	—	
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1. The following information was obtained from the records of the Department of the Interior, Bureau of Land Management, regarding the status of the land owned by the United States in the State of California, as of January 1, 1960:

[illegible]

DR. GAS SUMMARY

Show the account information concerning gas-making materials produced and consumed during the year.

Line #	Kind or use	Quantities handled during year						Credits to stock this year for use	Residuals expended	Residuals from other	Amount carried over
		Date beg	On hand at beginning	Made	Used	On hand at end					
1	Water gas tar (1)	Gal.	711,717	28,437,566	12,513,932	15,078,330	1,557,842	1,201,796.17	1,122.42	712,325.66	06
2	Drip and tar oil (2)	"	62,896	791,133	699,263	9,458	109,332	96,547.32	=	90,898.58	12
3	Slate (3)	Net tons	79,454.93	813,380.29	243,252.47	433,904.69	37,278.06	7,156,9730	189,899.28	90,300.10	13 31
4	Green gas tar	Gal.	169,000	6,846,663	7,061,463	=	154,000	493,401.11	=	311,896.11	07
5	Sulphate of ammonia	Net tons	238.46	7,667.46	7,413.65	=	523.31	213,274.23	100,323.74	297,677.41	36 32
6	Naphthalene	Lb.	=	758,639	758,639	=	=	26,687.51	=	26,687.51	04
7	Motor fuel	Gal.	156,382	2,277,543	2,192,716	=	243,169	434,702.49	=	456,380.19	21
8	Residual distillate (4)	"	3,229	233,881	225,899	=	11,081	29,512.14	668,349.12	28,249.96	23
9	Crude heavy solvent	"	11,196	1,060,895	1,028,275	=	43,816	225,451.68	=	217,683.72	21
Total								10,791,455.65	174,063.28	349,347.64	

(1) Quantity made, column (d), includes 9,458 gallons of drip and tar oil transferred

(2) Quantity used, column (f), represents quantity transferred to water gas tar

(3) Quantity made column (d), includes 1,689.80 net tons purchased and 100.00 net tons recovered from filters

(4) Amount in column (1) represents residuals expense on Motor fuel, Residual distillate and Crude heavy solvent which cannot be stated separately.

Sub. Important Changes During the Year

No.	Expenditure Item	Cost
1	6. Important units of plant and equipment installed on permanently withdrawn from service during the year.	
2		
3		
4		
5	<u>Location and Description</u>	
6	<u>Installed</u> Transmission Works	
7	Additional units for the installation of three (3) 7.5-ft. mechanical powerdriven water gas sets with water tank boilers and all auxiliary piping; extension of building and fuel handling system; two separator and pump houses for dehydration facilities; two (2) gas condensers; two (2) small preheaters; one (1) oil separator house (3) preheaters; one (1) 400 psi boiler, with extension of building and fuel handling system; one (1) 400 psi separator and one (1) 400 psi compressor, with building extensions; one (1) transmission relay substation air blowing, together with foundations, piping and electric facilities as required. Provide for extension of oil water system and oil water system. (Reported in 1952 & 1953)	475,384.00
8		
9	Equipment, housing and piping for the utilization of natural gas	940,451.00
10		
11	Columbus Works	
12	Equipment, housing and piping for the utilization of natural gas	375,825.00
13		
14	Distribution System	
15	Installed 10,911 ft. of natural steel pipe, including one half of cost of submerse crossing under Neponset Creek, for the utilization of natural gas	3,991,444.00
16		
17	<u>Withdrawn from Service</u> Scholar Street Station	
18	Boiler and pumping station apparatus	151,380.00
19		
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Report of

The Brooklyn Union Gas Co.

(Please show the source materials, form, or individual name of the preparer, having jurisdiction as to the distinction between the made reports and statements)

Located at

176 Remsen St, Brooklyn 2, N.Y.

(Please give the location, including street and No., of the preparer's main business office within the State)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1949

THIS IS A VERIFIED REPORT.
NOTATIONS IN PENCIL
OR ANY OTHER MARKINGS
MUST NOT BE MADE THEREON.

33. GAS PLANTS - MANUFACTURED GAS

1. Show the location and the description of each of the several manufactured gas plants in the service of the corporation at the end of the year. For each particular of manufacturing gas plants, approximate to the nearest cubic feet per day and per year. The tables in columns 2d, 3d, 4d, 5d, and 6d should show the total capacity of each plant, including facilities for storage required by statutory provision.

2. The total plant which was in operation at the end of the year, namely in a tabular form show

manufacture of gas was discontinued, whether or not the plant is estimated in operating condition, or the capacity which it has been estimated.

3. If the plant was sold or transferred under any title other than full ownership, give full particulars in a footnote.

No.	Location and description of plant	Number of units			If four output capacity, in cu. ft.			
		Sewer	Street	Railroad	Water gas	Coal gas	Other processes (specify)	
							In P. Mfr.	In P. Producer
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Harper and Varick Avenues, Brooklyn							
2	Coke Oven Gas - Greenpoint Works		50			23,000		
3	411 East Street - Brooklyn - Citizens Works	10			12,000			
4	Harper and Varick Avenues, Brooklyn							
5	Water Gas - Greenpoint Works	15			100,000*		20,000**	10,000**
6	Note - The above represents estimated daily peak production capacity.							
7	* Includes 10,000 M.C.F. refinery and producer gas. ** Represents capacity for 3 to 14 days.							

34. WATER GAS PLANTS

Show complete reported particulars of water gas and transfer to water gas plants listed in columns 2d.

No.	Description of plant	Number of units	Name of owner	Year installed	Capacity, in cubic feet (daily)	Daily capacity, M.C.F.
	(a)	(b)	(c)	(d)	(e)	(f)
1	Citizens Works	4	Bartlett-Harvard Co.	1906	60	14,000
2	" "	"	"	1907	60	14,000
3	" "	"	"	1908	60	14,000
4	Greenpoint Works	"	"	1907	60	14,000
5	" "	"	Edison Engineering & Supply Co.	1910	60	14,000
6	" "	"	"	1910	60	14,000

35. MACHINES

*Mechanical generators

1. Show hereunder the reported particulars of gas holders in operation at the end of the year.

2. If any such units were transferred under any title other than full ownership, give full particulars in a footnote.

No.	Description of plant or machine	Machines and engines				Boilers			
		Number of units	Make or holder	Year installed	Capacity, in cu. ft.	Number of units	Make or holder	Year installed	Capacity, in cu. ft.
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	See insert sheet 413a								
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LPG-Holders

Works and Outlying

Relief

Line No.	Designation of Plant or Station (a)	Number of Tanks (b)	Maker or Builder (c)	Year Installed (d)	Capacity Cu. Ft. (e)	Number of Tanks (f)	Maker or Builder (g)	Year Installed (h)	Capacity Cu. Ft. (i)
"	Citizens Works					1	Bartlett-Hayward Co.	1930	800,000
"	Greenpoint Works- Water Gas					1	" " "	1927	1,007,000
"	Belmont Ave. Station	1	Bartlett-Hayward Co.	1909	3,250,000				
"	Fifth St. Station	1	" "	1923	5,000,000				
"	Flatbush Station	1	" "	1909	5,000,000				
"	Flatbush Station	1	" "	1921	5,000,000				
"	Jessie Station	1	Koppers Company, Inc.	1918	10,000,000				
"	Kearney Ave. Station	1	Bartlett-Hayward Co.	1927	15,000,000				
"	Kearney Ave. Station	1	Koppers Company, Inc.	1919	15,000,000				
"	Newton Station	1	Bartlett-Hayward Co.	1911	10,000,000				
"	Newton Station	1	" "	1921	10,000,000				
"	Scholar St. Station	1	" "	1894	1,499,000				
"	Twelfth St. Station	1	" "	1905	5,000,000				
"	Wythe Ave. Station	1	" "	1903	5,000,000				
"	Wythe Ave. Station	1	" "	1908	5,000,000				
"		<u>11</u>			<u>57,775,000</u>	<u>11</u>			<u>8,807,000</u>

Producer Gas Holder

"	Greenpoint Works- Coke Oven Gas					1	Western Gas Const. Co.	1928	80,000
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MR. CHS. BARNES

Give the required information concerning gas-making activities produced and disposed of during the year.

#	Kind	Unit	Quantities handled during year						Converted into fuel oil or gas	Residuals reported	Residuals other than	Average selling price
			Prod. (a)	On hand at beginning (b)	Made (c)	Used (d)	On hand at end (e)					
1	Water gas tar	(1)	Gal.	561,639	21,805,436	11,000,908	11,631,432	711,717	1,367,894.48	-	435,431.74	29
2	Drip and tar oil	(2)	"	51,361	865,542	840,076	43,243	62,896	154,475.89	-	162,046.38	12
3	Soda	(3)	Net ton	61,427.72	180,166.35	188,716.73	375,382.44	73,454.81	7,239,372.75	175,066.34	2,411,470.73	12.78
4	Oven gas tar		Gal.	51,000	6,745,815	6,431,845	-	360,000	454,762.44	-	394,707.44	29
5	Sulphate of ammonia		Net ton	101.44	7,635.22	6,998.30	-	738.46	148,741.79	23,221.85	120,275.85	45.74
6	Naphthalene		Lb.	-	617,330	617,330	-	-	28,127.36	-	28,127.36	26
7	Water fuel		Gal.	234,328	1,674,567	1,900,973	-	158,322	234,473.42	-	251,600.64	14
8	Residual distillate	(4)	"	17,870	256,308	270,519	-	1,249	28,127.85	18,878.04	29,611.29	11
9	Grods heavy solvent	"		2,781	801,698	793,283	-	11,196	143,271.05	-	141,685.44	18
								Total	20,701,493.99	452,146.79	2,014,734.35	

(1) Quantity made, column (d) includes 43,541 gallons of drip and tar oil transferred.

(2) Quantity used, column (f), represents quantity transferred to water gas tar.

(3) Quantity made, column (d), includes 1,345.35 net tons purchased.

(4) Amount in column (i) represents residuals expenses on Water fuel, Residual distillate and Grods heavy solvent which cannot be stated separately.

326. Important Changes During the Year

Cont

Inquiry
To,

6. Important units of plant and equipment installed or permanently withdrawn from service during the year.

Location and Description

Installed

Remodeled Work

Additional costs for the installation of three (3) U.S.I. mechanical power unit gas sets with waste heat boilers and all auxiliaries; extension of building and fuel handling system; air separator and pump house; air dehydration facilities; two (2) gas condensers; two (2) General purifiers; one (1) air separator; three (3) purifiers; one (1) 600 Fed boiler with extension of building and fuel handling system; one (1) 600 Fed condenser and one (1) 600 Fed compressor with building extension; one (1) Comairville rotary purification air blower; together with foundations, piping and electric facilities as required. Provide for extension of city water system and salt water system. (Reported in 1948)

\$ 293,160.00

Highway Avenue Station

17,000,000 sq.ft. warehouse holder

2,427,886.00

William Morris

Conversion of #3 Williams generator to oil operation

75,722.00

William Morris
Note

ORIGINAL

UTILITY CORPORATIONS } CLASSED A AND B
MULTI-UTILITY GAS CORPORATIONS }
NATURAL GAS CORPORATIONS }

YEAR ENDED 1948
EXHIBIT NO.

Report of **THE BROOKLYN UNION GAS COMPANY**
Located at **176 REMSEN STREET, BROOKLYN, N.Y.**

TO THE

THIS IS A VERIFIED REPORT,
SUBSCRIBED AND SWORN TO
before me on the _____ day of _____,
1949, at _____, New York.

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1948

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY 1, N.Y., NOT LATER THAN MARCH 15, 1949

420 - Holders

Item No.	Designation of Plant or Station (a)	Works and Buildings				Holder			
		Number of Units (b)	Maker or Builder (c)	Year Installed (d)	Capacity Cu. Ft. (e)	Number of Units (f)	Maker or Builder (g)	Year Installed (h)	Capacity Cu. Ft. (i)
1	Citizens Works					1	Bartlett-Hayward Co.	1926	800,000
2	Greenpoint Works- Water Gas					1	" "	1927	1,007,000
3	Belmont Ave. Station	1	Bartlett-Hayward Co.	1923	3,250,000				
4	Fifth St. Station	1	" "	1923	3,036,300				
5	Flintrock Station	1	" "	1924	3,000,000				
6	Flintrock Station	1	" "	1926	3,000,000				
7	Jamaica Station	1	Leppers Const. Co.	1925	28,600,000				
8	Margoth Ave. Station	1	Bartlett-Hayward Co.	1927	15,000,000				
9	Seviown Station	1	" "	1921	10,000,000				
10	Seviown Station	1	" "	1921	10,000,000				
11	Scholes St. Station	1	" "	1894	1,499,000				
12	Twelfth St. Station	1	" "	1905	3,000,000				
13	Wythe Ave. Station	1	" "	1900	3,000,000				
14	Wythe Ave. Station	1	" "	1908	3,000,000				
					<u>20,105,300</u>	1			<u>1,007,000</u>

Producer Gas Holder

Greenpoint Works- Coke Oven Gas	1	Western Gas Const. Co.	1928	45,000
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NO. 125 BIRMINGHAM

Show the required information concerning production methods produced and disposed of during the year.

Line No.	Kind	Quantities handled during year						Purchased for sale in 1941	Manufactured in 1941	Residuals from sales	Average selling price
		Units	The kind of beginning	Units	Units	Units	The kind of end				
		1941	1940	1941	1940	1941	1940				
1	Water gas tar	Gal.	343,000	36,000,000	13,400,000	12,800,000	561,000	2,300,000,000	2,300,000	1,100,000,000	00
2	Crude oil and tar oil	"	170,000	1,375,000	1,400,000	-	81,000	1,375,000,000	-	145,400,000	10
3	Crude oil	[1] Net Ton	21,300.00	246,000.00	246,000.00	246,000.00	24,400.00	7,200,000.00	24,400.00	2,300,000.00	12.41
4	Crude gas tar	Gal.	120,000	6,800,000	6,800,000	-	51,000	700,000,000	-	800,000,000	12
5	Salts of sodium	Net Ton	372.00	7,000.00	7,000.00	-	101.00	133,000.00	133,000.00	143,000.00	45.00
6	Ammonium	lb.	-	800,000	800,000	-	-	35,000.00	-	35,000.00	04
7	Crude oil of coal tar	Gal.	-	900	900	-	-	1,300.00	-	1,300.00	1.40
8	Motor fuel	"	150,000	1,400,000	1,400,000	-	200,000	200,000,000	-	200,000,000	14
9	Residual distillate [2]	"	81,000	200,000	200,000	-	17,000	20,000,000	20,000,000	20,000,000	10
10	Crude heavy solvent	"	10,000	200,000	200,000	-	2,000	100,000,000	-	100,000,000	14
							Total	11,200,000,000	11,200,000,000		

[1] Quantity made, column (4), includes 1,000,000 net tons purchased.

[2] Amount in column (8) represents residuals expenses on Motor fuel, Residual distillate and Crude heavy solvent which cannot be stated separately.

Inventory
No.

4. Important units of plant and equipment installed or permanently withdrawn from service during the year.

Location and Description

Installed

Greenpoint Works
Additional costs for the installation of two (2) T.O.L. water gas sets, with heavy oil and back run processes and waste heat boilers; extension of present generator house and fuel handling system to same; heavy oil process for six (6) existing water gas sets; tar separating and dehydration apparatus, together with 1,000,000 gallon tar tank; one (1) 600 Psi boiler; three (3) oil scrubbers; two (2) Cottrell precipitators; two (2) rotary engines; one (1) turbo-compressor; one (1) oil scrubber; three (3) gas condensers; three (3) gas purifier houses; piled foundations for above apparatus; underground oil overhead connections in yard; and all necessary connections and auxiliary equipment. (Reported in 1946)

\$ 308,042.00

Part costs of three (3) T.O.L. mechanical generator water gas sets with waste heat boilers and all auxiliaries; extension of building and fuel handling system; tar separator and pump house; tar dehydration facilities; two (2) gas condensers; two (2) Cottrell precipitators; one (1) oil scrubber; three (3) purifiers; one (1) 600 Psi boiler; with extension of building and fuel handling system; one (1) 600 Psi exhaustor with building extension; one (1) 600 Psi compressor, with building extension; one (1) Greenpoint Works; rectification air blowers; together with foundations, piping and electric facilities as required. Provide for extension of city water system and salt water system.

3,523,387.00

Citizens Works

Convert A Williamson generator to oil operation and extend meter house

104,244.00

Jackson Station

Contract 10,600,000 cu.ft. waterless holder, and additional costs for pumping station which was reported in 1947

1,007,611.00

Withdrawn from service

Fifth Street Station

Four (4) compressors; four (4) steam engines, auxiliary piping and wiring (replaced by three compressors, barometric condensers, etc., installed in 1947)

105,617.00

Fletcher Station

Holder, 1,003,000 cu.ft., with piping and apparatus

74,114.00

ORIGINAL

YEAR ENDED 1947
DECEMBER 31, 1947

Report of The Brooklyn Union Gas Company.

Located at 176 Remsen Street, Brooklyn, N.Y.

TO THE

THIS IS A VERIFIED REPORT,
RELATING TO THE PLACE
OF ANY OTHER TOLL-GATE
MUST NOT BE MADE THEREIN.

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1947

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N.Y., NOT LATER THAN MARCH 15, 1948

4. When the samples and the reagents are at the end of the run, the whole apparatus is disassembled, the sample gas and gas. The samples are then separated by means of a gas chromatograph. The gas chromatograph is used to separate the gas samples, which are then analyzed by means of a gas chromatograph.

1. If any plant was used for medicinal purposes, state what plant was used and how it was used.

10. The following table shows the number of people who attended the 2004 Summer Olympics in Athens, Greece, by country. The data are in millions of people.

*Includes 20,000 S.G.F. refinery and producer gas.

"" Represents capacity for 25% or less days.

These documents concerned activities of some who were known to have been active in activities of the

Abstract

Registration: <http://www.conference2006.org>

11. When necessary, the command structure of any soldier is necessary to complete or extend to the end of the post.

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

[illegible]

420 - Holders

No.	Designation of Plant or Station (a)	Water and Sewerage			Capacity Cu. Ft. (e)	Refuse			
		Number of Cyls (b)	Maker or Builder (c)	Year Installed (d)		Number of Cyls (f)	Maker or Builder (g)	Year Installed (h)	Capacity Cu. Ft. (i)
"	Citizens Works					1	Bartlett-Rayward Co.	1930	806,000
"	Greenpoint Works- Water Gas					1	" " "	1927	1,000,000
"	Belmont Ave. Station	1	Bartlett-Rayward Co.	1923	3,250,000				
"	Fifth St. Station	1	" " "	1923	2,026,300				
"	Flatbush Station	1	" " "	1901	1,000,000				
"	"	1	" " "	1909	5,000,000				
"	"	1	" " "	1924	5,000,000				
"	Waspeth Ave. Station	1	" " "	1927	15,000,000				
"	Newtown Station	1	" " "	1911	10,000,000				
"	"	1	" " "	1921	10,000,000				
"	Boothus St. Station	1	" " "	1894	1,494,000				
"	Twelfth St. Station	1	" " "	1905	5,000,000				
"	Myrtle Ave. Station	1	" " "	1903	5,000,000				
"	"	1	" " "	1906	5,000,000				
		<u>12</u>			<u>70,776,300</u>	<u>2</u>			<u>1,806,000</u>
<u>Producer Gas Holder</u>									
"	Greenpoint Works- Coke Oven Gas					1	Western Gas Constr. Co.	1928	40,000

325. Important Changes During the Year

A - Department, Construction and Endowment Properties

1. See Schedule 287

2. See Invert Sheet No. 521a2 for air program plant, operation of which was begun in 1947

3. None

4. None

5. None

6. See Invert Sheet No. 521a2

B - Financed

7. None

8. \$4,000,000 principal amount of First Lien and Refunding Mortgage of Gold Bonds matured and were paid May 1, 1947. Underlying bonds issued by merged companies in the amount of \$2,000,000 and sold in treasury which were pledged with the Treasury as collateral under the Indenture securing the First Lien and Refunding Mortgage. Gold Bonds were cancelled upon satisfaction of the First Lien and Refunding Mortgage. Case No. 15594.

9. (a) Amount payable at December 31, 1947 amounted to \$9,000,000. See Schedule 213 for details and Invert Sheet 213a for particulars of loan agreement.

(b) Deposit with Mortgage Trust of \$5,656,812.35 was returned during 1947. See Invert Sheet 213a2 for details.

C - Corporate Organizations

10. No amendments

11. No change

D - Principles

12. No change

E - Miscellaneous

13. No

14. No

15. See Invert Sheet Schedule was put into effect July 28, 1947. Public Service Commission Case No. 12979.

413. Important changes during the year

Cost

Expenditure for	Important units of plant and equipment installed or permanently withdrawn from service during the year.	Cost
	Location and Description	
6.	Installed Greenpoint Works Additional costs to reconstruct soda arena (Reported in 1946) Air preheat plant (including cold enrichment facilities) Additional costs for the installation of two 104-in. water gas sets with heavy oil and bank run pressure and waste heat boilers; extension of present generator house and fuel handling system to same; Heavy oil preheat for air heating water gas set; two evaporating and distillation apparatus, together with 1,000,000 gallon tar tank; one 500 P.S.I. boilers two recovery meters; one turbo compressor; three oil coolers; two Detroit precipitators; one turbo exhausters; two gas condensers; three gas purifier boxes; piled foundation for above apparatus; underground and overhead connections in yard; and all necessary connections and auxiliary equipment (Reported in 1946)	\$301,833.40 649,309.79
	Fifth Street Station Three (3) compressors, barometric condensers, etc.	365,871.33
	Chemical Station Pumping Station Purchase of land	404,145.96 128,973.76
	Withdrawn from service Greenpoint Works Machinery and apparatus due to reconstruction of soda arena	161,111.52

ORIGINAL

YEAR ENDED
DECEMBER 31, 1946

ELECTRIC CORPORATION
MANUFACTURED GAS CORPORATIONS, CLASSES A AND B
NATURAL GAS CORPORATIONS

Report of **THE BROOKLYN UNION GAS COMPANY**

Located at **176 REMSEN STREET, BROOKLYN, N.Y.**

TO THE

THIS IS A VERIFIED REPORT
NOT TO BE USED FOR ANY
OR ANY U.S. GOVERNMENT
MUST NOT BE MADE THEREIN

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1946

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N.Y., NOT LATER THAN MARCH 15, 1947

43. GAS PLANTS—MANUFACTURED GAS

1. Show the location and the description of each of the several manufacturing gas plants in the vicinity of the community or city at the top. For other plants of manufacturing gas, attach particulars to these reported for water gas and coal gas. The number of employees, if any, and the total value of the plant should appear on each of such other manufacturing facilities on separate lines, as indicated by schedule 43b.

2. If any plant was sold by manufacturer under any title other than full ownership, give full particulars in a footnote.

Line No.	Location and description of plant	Number of units			Gross output capacity, Btu per hr.			
		Wet	Coke	Breeze	Water gas	Coal gas	Other processes (specify)	
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Manhasset and Varick Avenues, Brooklyn		90			23,000		
2	Coke Oven Gas - Greenpoint Works							
3	433 86th St., Brooklyn - Citizens Works	10			50,000			
4	Manhasset and Varick Avenues, Brooklyn	8			60,000			
5	Water Gas - Greenpoint Works							
6								
7								
8								
9								
10								

43b. WATER GAS UNITS

Show (include required particulars of water gas unit located at water gas plants listed in schedule 43a)

Line No.	Designation of plant	Number of units	Name of owner	Year installed	Water gas capacity per unit per hr.	Value, \$
	(a)	(b)	(c)	(d)	(e)	(f)
1	Citizens Works	1	Bartlett-Baymond Co.	1906	68	14,000
2	" "	"	"	1921	68	18,000
3	" "	"	"	1924	68	18,000
4	" "	"	"	1927	68	18,000
5	Greenpoint Works	1	Barlett-Baymond Construction	1926	68	18,000
6	Previously reported as "Steady State"					

43c. GENERATORS

Mechanical generators

1. Show (include the required particulars of gas engine in generation of compressed air at the end of the line).

2. If any such units were sold under any title other than full ownership, give full particulars in a footnote.

Line No.	Description of plant or station	Water and cooling				Fuel			
		Number of units	Water or fuel	Year installed	Capacity, cu ft	Number of units	Water or fuel	Year installed	Capacity, cu ft
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1	Gas Inert Sheet Mills								
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420 - Holders

No.	Designation of Plant or Station (a)	Works and Outlying			Bellevue				
		Number of Units (b)	Maker or Builder (c)	Year Installed (d)	Capacity Cu. Ft. (e)	Number of Units (f)	Maker or Builder (g)	Year Installed (h)	Capacity Cu. Ft. (i)
1	Citizens Works					1	Bartlett-Hayward Co.	1930	806,408
2	Greenpoint Works- Water Gas					1	" " "	1927	1,000,000
3	Belmont Ave. Station	1	Bartlett-Hayward Co.	1909	3,200,000				
4	Fifth St. Station	1	" "	1923	5,000,000				
5	Flatbush Station	1	" "	1901	1,000,000				
6	" "	1	" "	1909	5,000,000				
7	" "	1	" "	1924	5,000,000				
8	Manhattan Ave. Station	1	" "	1927	15,000,000				
9	Western Station	1	" "	1911	10,000,000				
10	" "	1	" "	1921	10,000,000				
11	Schelsea St. Station	1	" "	1894	1,499,000				
12	Twelfth St. Station	1	" "	1905	5,000,000				
13	Sykes Ave. Station	1	" "	1903	5,000,000				
14	" " "	1	" "	1905	1,200,000				
15		<u>12</u>			<u>75,700,000</u>	<u>2</u>			<u>2,806,408</u>

Producer Gas Holder

1	Greenpoint Works-					1	Western Gas Construction Co.	1938	40,000
2	Coke Oven Gas								

NO. 10. SEASON RECORD AND QUALITY OF OUTPUT-GAS.

Continuing the same information arrangements as in schedule 10, show the required information regarding production of gas in each season. All quantities should also be shown in cubic feet at 60° F.

No.	Description of season	Williams Works		Greenwald Works		Totals
		Water Gas cu ft	Water Gas cu ft	Water Gas cu ft	Water Gas cu ft	
1	Gas made: Seasonal production (water used)			639,399.00		639,399.00
2	Yield, gas per lb. coal (cu. ft.)			3.35		3.35
3	Average number miners in season (in season)			88		88
4	Average output per miner in season (cu. ft.)			27,380		27,380
5	Average output of steamboilers (cu. ft.)			15.08		15.08
6	Average output of steamboilers (cu. ft.)			206,173		206,173
7	Average output per miner in season per day (cu. ft.)			483,958.00		483,958.00
8	Yield: Short tons produced			78.15		78.15
9	Cost: Basis per short ton of coal (cu. ft.)			4,871,879		4,871,879
10	Cost per ton: Gasoline produced			7.87		7.87
11	Cost per ton: Gasoline per short ton of coal (cu. ft.)					
12	Total fuel water consumed: Total (short tons)					
13	Cost (short tons)					
14	Average fuel water consumed: Fuelwater gas at standard gas— at 60° F.			11,836,836		11,836,836
15	Total fuel used in producing producer gas (short tons)			33,482.00		33,482.00
16	Producer gas produced—M cu. ft.			13,107,886		13,107,886
17	Heating value of producer gas produced—Btu.			187.1		187.1
18	Water used: Average number (cu. ft.)	4	9			13
19	Total fuel (short tons)	13,129.90	28,463.22			41,593.12
20	Yield of fuel (cu. ft.)	4,895,373	3,336,131			8,231,504
21	Yield (cu. ft.) per lb. of coal (cu. ft.)	7.40	5.42			6.41
22	Gasoline: Average number (cu. ft.)	5	5			10
23	Total output (cu. ft.) of gas (cu. ft.)	340	305			645
24	Water (cu. ft.) per cu. ft. of gas (cu. ft.)	3,768	3,398			4,588
25	Gasoline (cu. ft.) per M cu. ft. (cu. ft.)	23.73	19.60			21.66
26	Gasoline (cu. ft.) per M cu. ft. (cu. ft.)	33,187,931	36,376,363			69,564,294
27	Water gas per cubic ft. of gas (cu. ft.)	28.71	20.24			24.47
28	Gasoline per M cu. ft.	3.73	3.34			3.53
29	Average cost per gallon, water and gasoline	4.60	6.06			5.33
30	Gas produced, Btu. value	135,500	64,000			219,500
31	Gas, Btu. value per cu. ft.					
32	Gas, Btu. value per cu. ft.	97,384	242,584			340,000
33	Gas, Btu. value per cu. ft.					141,482
34	Heating value of gas: Btu. maximum day	552	600			587
35	Minimum day	513	475			497
36	Average day gas	540	530			516
37	Heating value (Btu. value) of a gas (cu. ft.)	55	81			68

For footnotes see insert sheet 514a.

NO. 10. FIELD STORAGE OF GAS.

If applicable, without regard to gas field location, for storage purposes, show immediately the required information, separately for each field, and state all quantities of gas in M cu. ft. at 60° F. and 14.7 lb.

- Location or designation of field
- Number of wells
- Total storage
- Quantity placed in storage during year
- Quantity withdrawn during year
- Amount of remaining gas in storage at end of year
- Amount in which balance is carried in report to line 37

Sign

[1] *Myrmica rubra* appears on Silver Peak, Redwood Mountains and Snake Range (Silver Lake) in the mountains to the west.

Supplement to Schedule 703 Page 301

303. Important changes during the year

Line	Inventory No.		
1	4.	Important units of plant and equipment installed or permanently withdrawn from service during the year.	
			Cost
		Location and Description	
		Installed	
		Cittizens Works	\$ 12,451.73
		One condenser and one scrubber	24,890.77
		Shardles Autjector	2,001.49
		Green connection between Stillman collecting mains and	2,351.82
		exchange mains from 36" to 42"	11,028.32
		42" City water line	3,999.79
		Additions to No. 1 and No. 2 scrubbers	22,712.37
		Overhead collecting main	\$ 251,123.22
		Water houses, meters and connections	
		Greenpoint Works	
		Two water gas sets with heavy oil and back run process and	\$ 470,444.73
		waste heat boilers	280,867.04
		Extension to present generator house and fuel handling system	118,577.51
		Heavy oil process for six existing water gas sets	474,588.12
		One 600 P.H.I. Boiler	162,025.45
		One Turbo compressor	128,770.47
		One Turbo exchanger	180,770.39
		Two gas condensers	200,250.80
		Three purifier boxes	220,779.84
		Underground and overhead connections in yard	242,711.63
		42" Distribution main	776,271.42
		Reconstruction of coke ovens	23,643.73
		One quenching car	10,732.47
		Underground cables	24,413.09
		Large loading equipment for tar	22,934.12
		Dry tar storage tank	24,420.23
		Two oil scrubbers	28,762.27
		One Cottrell precipitator	77,032.68
		One Rotary meter	90,830.62
		Pump at the boiler building	12,828.72
		Barometric condenser	2,428.44
		Belt for # 4 conveyor	12,168.77
		Refinery gas line to Standard Oil Co., property	\$ 1,823,622.22
		Easton Station	
		Three 800 H.P. Diesel engine driven compressors	\$ 424,244.73
		Total	\$ 4,621,123.22

Supplement to Schedule 325 Page 222

325. Important changes during the year

Req. No.	Location and Description	Cost
4	<u>Withdrawn from service</u>	
(Contd.)	Williams Works	
	Station meters #5, 6, 7 & 8, foundation for station meter	\$131,994.53
	#9 and gas piping	3,004.38
	Outlet gas connection between generator house and boiler	<u>\$134,998.91</u>
	Outlet header	
	Greenpoint Works	
	Miscellaneous apparatus and piping amount of plant expansion	\$ 40,945.66
	One coke quenching car	11,098.73
	Four extractors on pulper machines, bookstays, even doors,	31,000.00
	etc., on Battery No. 1	<u>\$82,043.39</u>
	Williamsburgh Office	
	Sale of land and building	\$103,435.64
	Total	<u>\$412,478.54</u>

B. Long-term debt issued during the year

Designation of debt	Amount Issued	Date	Purpose for which issued	Consideration realized	P.S.C. Case No.
(a)	(b)	(c)	(d)	(e)	
General Mortgage Bonds, 3-7 1/2% Series, due 1976 (First Mortgage after May 1, 1947)	\$34,000,000.00	July 1, 1946	Refunding of out- standing long- term debt	\$34,776,524.00	12436

Long-term debt retired during the year

Designation of debt	Date Issued	Cost of acquisition	Date cancelled
(a)	(b)	(c)	(d)
General Mortgage Sinking Fund Bonds, 3 1/2% Series, due 1949	Sept. 13, 1944	\$38,340,000.00 (principal) 1,534,100.00 (premium)	Called for redemption August 16, 1946
Twenty-five year 1 1/2% Sinking Fund Debentures, due 1949	Sept. 13, 1944	\$ 4,760,000.00 (principal) 367,780.00 (premium)	Called for redemption September 7, 1946

10 Amendments to articles of incorporation

Certificate of Authorization and Classification of New Shares of Cumulative Preferred Stock of a par value of \$100, approved by the Public Service Commission on June 11, 1946 and filed with the Secretary of State on June 14, 1946, in connection with Case No. 12436.

Report of The Brooklyn Union Gas Company,

Located at 176 Remsen Street, Brooklyn, N.Y.

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1945

THIS IS A VERIFIED TRUE
NOTATION OF THE DEPT. OF
OR ANY OTHER DEPARTMENT
MUST NOT BE MADE TAKEN.

403. GAS PLANTS - MANUFACTURED GAS

1. Show the location and the designation of each of the several manufactured gas plants in the service of the corporation at the end of the year. For other purposes of manufacturing, give details corresponding to those mentioned for water gas and coal gas. The figures in columns 101, 111, 121, 131 and 141 should show the total without subjecting any of such plants requiring facilities or output limited by outside facilities.

Manufactures of gas are designated, whether or not the plant is authorized in operating facilities, as the source in which it has been derived.

2. If one plant has been in operation under any title other than full capacity, give full particulars in a footnote.

Line No.	Location and designation of plant	Number of units			In four report months, 12 mo. to			
		Days	Hours	Feet per	Water gas	Coal gas	Other processes (footnote)	
		(101)	(111)	(121)	(131)	(141)	(151)	(161)
1	Massachusetts and Varick Avenues, Brooklyn							
2	Coke Oven Gas - Greenpoint Works		30			24,000		
3	133 North St., Brooklyn - Citizens Works	5			10,000			
4	Massachusetts and Varick Avenues, Brooklyn							
5	Water Gas - Greenpoint Works	5			10,000			
6								
7								
8	Includes stand-by water gas sold at Citizens Works (See line 20 for sale)							

404. WATER GAS RATE.

Show hereunder reported particulars of water gas rate based in water gas plants listed in schedule 403.

Line No.	Designation of plant	Number of units	Name of water	Year installed	Water rate (in pounds per 1000 cu. ft.)	Value, 12 mo. to
	(101)	(111)	(121)	(131)	(141)	(151)
1	Citizens Works (Stand-by Rate)	5	Bartlett Forward Co.	1905	73.5	24,000
2	" "	5	" "	1905	68	18,000
3	" "	5	" "	1905	68	18,000
4	Greenpoint Works	5	" "	1905	68	18,000
5						
6						

405. BOLLERS

1. Show hereunder the reported particulars of gas boilers in service at the end of the year.

2. If any unit, units were full under any title other than full capacity, give full particulars in a footnote.

Line No.	Water and cooling					Boiler		
	Designation of plant or station	Number of units	Maker or builder	Year installed	Capacity, cu. ft.	Number of units	Water or boiler	Value, 12 mo. to
1		(101)	(111)	(121)	(131)	(141)	(151)	(161)
2	See Image Sheet 2011a							
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

420 - Holders

Line	Description of Plant or Station (a)	No. of Units (b)	Maker or Builder (c)	TUBES AND OUTLETS		No. of Units (f)	Maker or Builder (g)	Year Installed (h)	Capacity Co. (i)
				Installed (d)	Capacity (e)				
1	Citizens Works								
2	Greenpoint Works-					1	Bartlett-Hayward Co.	1930	806,400
3	Water Gas								
4	Belmont Ave. Station	1	Bartlett-Hayward Co.	1923	1,250,000	1	"	1927	1,000,000
5	Fifth St. Station	1	"	1923	1,025,000				
6	Flatbush Station	1	"	1923	1,000,000				
7	"	1	"	1924	1,000,000				
8	"	1	"	1924	1,000,000				
9	Harpath Ave. Station	1	"	1927	15,000,000				
10	Newtown Station	1	"	1931	10,000,000				
11	"	1	"	1931	10,000,000				
12	Scholes St. Station	1	"	1894	1,400,000				
13	Twelfth St. Station	1	"	1905	5,000,000				
14	Wyke Ave. Station	1	"	1903	5,000,000				
15	"	1	"	1908	5,000,000				
16		5			18,700,000	3			1,806,400

Producer Gas Holder

1	Greenpoint Works-								
2	Coke Oven Gas					1	Western Gas Const.Co.	1928	40,000

321. Important changes during the year

Inquiry No.

6. Important units of plant and equipment installed or permanently withdrawn from service during the year.

Location and Description	Cost
<u>Installed</u>	
Citizens Works	21,361.65
Startewart Centrifugal Exhauster	
Mapleth Ave. Station	
Copper-Bellows gas engine direct connected to a gas booster and auxiliary equipment	105,735.48
Seaview Station	1,395.00
30" motor driven valves and piping	100,105.35
Total	
<u>Withdrawn from service</u>	
Citizens Works	9,121.26
Connersville Rotary Exhauster with Buckeye engine, etc.	11,995.90
North end of collecting main loop	
Greenpoint Works	5,945.63
Portion of power wiring and conduits	
Floor plates, beams, platforms, etc. at Water Gas	7,373.54
Gate #1 to 4	
Portion of foundation and west wall of Generator House etc.	44,999.52
Mapleth Ave. Station	9,197.12
Portion of foundation, superstructure etc.	
Seaview Station	
Connersville Rotary Exhauster with Allis Chalmers engine, etc.	71,121.84
Total	180,105.35

8. Long-term debt retired during the year

Designation of debt	Date issued	Cost of acquisition	Date cancelled
First Consolidated Mortgage 18			
Gold Bonds	Sept. 15, 1925	\$14,000,000.00	*On maturity May 1, 1943
General Mortgage			
Sinking Fund Bonds	Sept. 15, 1924	700,000.00 (principal) 19,000.00 (premium)	Called for redemption Sept. 15, 1943
Twenty-five year 4 1/2 Sinking Fund Debentures	Sept. 15, 1944	150,000.00 (principal) 4,152.50 (premium)	Purchased and delivered to Guaranty Trust Company of New York, Trustee, Sept. 15, 1943

*On September 26, 1943 funds for the payment of principal and interest to maturity on these bonds were deposited with Guaranty Trust Company of New York as Trustees.
On May 1, 1943 Guaranty Trust Company of New York, as Trustee as aforesaid, executed and delivered to this Company a satisfaction of the mortgage covering the aforesaid bonds, which satisfaction was filed in the office of the Registrar of the City of New York, counties of Kings and Queens, on May 8, 1943 and May 22, 1943 respectively.

ELECTRIC CORPORATIONS
MANUFACTURED GAS CORPORATIONS
NATURAL GAS CORPORATIONS

CLASSES A AND B

ORIGINAL

YEAR ENDED
DECEMBER 31, 1944

Report of The Brooklyn Union Gas Company,
(When there is full and complete disclosure of all the companies, include report in the statement between the words "Company" and "Company".)

Located at 176 Remsen Street, Brooklyn, N.Y.
(When given the location, including street and No., of the corporation's main business office within the State.)

TO THE

THIS IS A VERIFIED SERIAL
NOTATION IN THE PUBLIC
OF AN ORIGINAL COPY
Must not be made further

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1944

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 15, 1945.

1990

1. If any piece was torn by independent action any time other than full retirement, give full particulars in a separate report.

1. All new plants are listed by independent review and lists allow them full commercial, and full participation in a

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

These findings suggest potential problems of water gas are limited to water gas plants listed in schedule 400.

— 1992 —

— Please forward the enclosed declaration of our letters in person or by registered or insured mail to the post.

1. All new words under each field number are italicized and italicized words are full recordings, given full particulars in a footnote.

[illegible]

No.	Designation of Plant or Station (a)	No. of Units (b)	WATER AND SEWERAGE			No. of Units (g)	SEWER		
			Maker or Builder (c)	Year Installed (d)	Capacity Cu. Ft. (e)		Maker or Builder (f)	Year Installed (h)	Capacity Cu. Ft. (i)
1	Citizens Works								
2	Greenpoint Water- Gas					1	Bartlett-Rayward Co.	1930	800,000
3	Belmont Ave. Station	1	Bartlett-Rayward Co.	1903	3,250,000	1	"	1927	1,000,000
4	Fifth St. Station	1	"	1923	5,000,000				
5	Flatbush Station	1	"	1928	1,000,000				
6	"	1	"	1929	5,000,000				
7	"	1	"	1931	5,000,000				
8	Hempstead Ave. Station	1	"	1927	10,000,000				
9	Newtown Station	1	"	1913	10,000,000				
10	"	1	"	1922	10,000,000				
11	Scholes St. Station	1	"	1924	1,000,000				
12	Twelfth St. Station	1	"	1925	5,000,000				
13	Sythe Ave. Station	1	"	1923	5,000,000				
14	"	1	"	1928	5,000,000				
15		12			25,750,000	2			1,800,000

Producer Gas Holder

"	Greenpoint Works-								
"	Water Gas					1	Western Gas Const. Co.	1928	40,000

Continuing the same information submitted on the schedule 100, show the following information regarding production of goods in each month. All amounts should give information required, from 10 to 20, inclusive.

10		11		12		13		14		15	
10	20	30	40	50	60	70	80	90	00	10	20
1	21	22		23		24	25	26	27	28	29
2	27	28	29	30	31						
3	32	33		34		35	36	37	38	39	40
4	38	39	40	41	42						
5	43	44		45		46	47	48	49	50	51
6	49	50	51	52	53						
7	54	55		56		57	58	59	60	61	62
8	60	61	62	63	64						
9	65	66		67		68	69	70	71	72	73
10	71	72	73	74	75						
11	76	77		78		79	80	81	82	83	84
12	82	83	84	85	86						
13	87	88		89		90	91	92	93	94	95
14	93	94	95	96	97						
15	98	99		100		101	102	103	104	105	106
16	104	105	106	107	108						
17	109	110		111		112	113	114	115	116	117
18	115	116	117	118	119						
19	120	121		122		123	124	125	126	127	128
20	126	127	128	129	130						
21	131	132		133		134	135	136	137	138	139
22	137	138	139	140	141						
23	142	143		144		145	146	147	148	149	150
24	148	149	150	151	152						
25	153	154		155		156	157	158	159	160	161
26	159	160	161	162	163						
27	164	165		166		167	168	169	170	171	172
28	169	170	171	172	173						
29	175	176		177		178	179	180	181	182	183
30	179	180	181	182	183						
31	185	186		187		188	189	190	191	192	193
32	189	190	191	192	193						
33	195	196		197		198	199	200	201	202	203
34	199	200	201	202	203						
35	205	206		207		208	209	210	211	212	213
36	209	210	211	212	213						
37	215	216		217		218	219	220	221	222	223
38	219	220	221	222	223						
39	225	226		227		228	229	230	231	232	233
40	229	230	231	232	233						
41	235	236		237		238	239	240	241	242	243
42	239	240	241	242	243						
43	245	246		247		248	249	250	251	252	253
44	249	250	251	252	253						
45	255	256		257		258	259	260	261	262	263
46	259	260	261	262	263						
47	265	266		267		268	269	270	271	272	273
48	269	270	271	272	273						
49	275	276		277		278	279	280	281	282	283
50	279	280	281	282	283						
51	285	286		287		288	289	290	291	292	293
52	289	290	291	292	293						
53	295	296		297		298	299	300	301	302	303
54	299	300	301	302	303						
55	305	306		307		308	309	310	311	312	313
56	309	310	311	312	313						
57	315	316		317		318	319	320	321	322	323
58	319	320	321	322	323						
59	325	326		327		328	329	330	331	332	333
60	329	330	331	332	333						
61	335	336		337		338	339	340	341	342	343
62	339	340	341	342	343						
63	345	346		347		348	349	350	351	352	353
64	349	350	351	352	353						
65	355	356		357		358	359	360	361	362	363
66	359	360	361	362	363						
67	365	366		367		368	369	370	371	372	373
68	369	370	371	372	373						
69	375	376		377		378	379	380	381	382	383
70	379	380	381	382	383						
71	385	386		387		388	389	390	391	392	393
72	389	390	391	392	393						
73	395	396		397		398	399	400	401	402	403
74	399	400	401	402	403						
75	405	406		407		408	409	410	411	412	413
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77	415	416		417		418	419	420	421	422	423
78	419	420	421	422	423						
79	425	426		427		428	429	430	431	432	433
80	429	430	431	432	433						
81	435	436		437		438	439	440	441	442	443
82	439	440	441	442	443						
83	445	446		447		448	449	450	451	452	453
84	449	450	451	452	453						
85	455	456		457		458	459	460	461	462	463
86	459	460	461	462	463						
87	465	466		467		468	469	470	471	472	473
88	469	470	471	472	473						
89	475	476		477		478	479	480	481	482	483
90	479	480	481	482	483						
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99	525	526		527		528	529	530	531	532	533
100	529	530	531	532	533						

Notes:

(1) Line 20

The equivalent solid boiler fuel is calculated on the ratio of evaporation of solid to liquid-fired boilers. These figures for the year 1944 are as follows:

Works	Pounds per H		Equivalent solid boiler fuel	Ratio
	Liquid boiler fuel (a)	Solid boiler fuel (b)	(c)	(d)
Citizens	4.93	3.43	9.68	1.44
Greenpoint	1.99	4.34	7.32	1.53
Average (weighted)	3.15	3.52	8.21	1.49

a x d = b x c

Note: The weight of a gallon of tar averages 10 pounds
" " " " " " oil " " 8 1/2 "

(2) Line 22

Grate surface of one generator multiplied by average number of generators in use.

(3) Line 23

The basis of the figures on this line is as follows:

Works	Gas made (M.C.F.)	Total hours running	Average made per running hour (M.C.F.)	Grate area per machine (sq.ft.)	Hourly make per sq.ft. of grate area
Citizens	7,875,441	17,800	253,580	64	3,760
Greenpoint	11,934,070	14,083	198,998	68	4,985
Totals	<u>19,809,511</u>	<u>31,883</u>			
Averages			<u>209,665</u>	<u>66</u>	<u>4,106</u>

(4) Line 26

It is not feasible to report this figure for the Greenpoint Works for the reason that this plant used both gas oil and refinery gas for enrichment purposes, both of which enriching agents produce tar.

Figure 1. The effect of the concentration of the inhibitor on the rate of polymerization of the monomer.

1. When knowledge is composed of the political and professional, and still an abstract discourse on the political and professional, it is not knowledge, it is a discourse, a discourse that is not knowledge.

5. There are variations of μ in $\mathbb{R}^n$. μ is assumed to satisfy conditions (a) and (b) in

Line no.	Kind of gas	Gas consumed and produced, M cu ft.			Kind of gas	Gas sold or otherwise disposed of, M cu ft.							
		Water Gas		Total		Total	Total						
		MG	MG				MG	MG	MG				
1	On hand at beginning of year			62,562	Sold in connected companies			—					
2	Produced during year	19,428,511	3,071,120	22,499,631	Other sales			29,088,001					
3	Produced from associated companies			—	Transferred to connected companies			—					
4	Produced from other than associated cos.			—	Gas sold without direct charge			—					
5	Produced from associated companies			—	Used by customers			66,079					
6	" " Cost credits by distribution			28,562,356	Lost and unaccounted for			1,412,000					
7	Balance, inventory and loss, M cu ft.			9,000	On hand at end of year			81,562					
8	Total cost, loss, of the year ended	November 23, 1944 = 12 1/2 to 1.00 P.M.			Expenses for gas sold or otherwise disposed of			28,562,356					
9					Cost of sales			110					
10	Monthly production (M cu ft.)	January	February	March	April	May	June	July	August	September	October	November	December
		921,363	102,536	153,078	289,007	324,146	304,260	175,001	184,793	212,795	212,446	208,008	212,764
11	Monthly delivery made	108,168	112,820	112,024	108,178	78,108	72,170	58,800	52,510	51,000	50,000	50,000	112,000

THE UNIVERSITY OF CHICAGO

[illegible]

3. Indicate in column (a) whether the municipality served is a city, village or town, and if serving in part is a portion of a city, indicating the number of population statistics covered by the report.

4. If municipal officials both personally and through gas departments, telephone departments, etc. are engaged in the work.

5. Give date in which the report was made.

[illegible]

1. State changes in production rate in course of construction of the plant, and the reasons therefor, and the effect on the plant's operations.
2. State changes in the plant's financial position, including changes in the plant's assets, liabilities, and capital, and the reasons therefor.
3. State changes in the plant's personnel, including changes in the plant's management, and the reasons therefor.
4. State changes in the plant's operations, including changes in the plant's production, and the reasons therefor.
5. State changes in the plant's financial position, including changes in the plant's assets, liabilities, and capital, and the reasons therefor.
6. State changes in the plant's personnel, including changes in the plant's management, and the reasons therefor.
7. State changes in the plant's operations, including changes in the plant's production, and the reasons therefor.
8. State changes in the plant's financial position, including changes in the plant's assets, liabilities, and capital, and the reasons therefor.
9. State changes in the plant's personnel, including changes in the plant's management, and the reasons therefor.
10. State changes in the plant's operations, including changes in the plant's production, and the reasons therefor.
11. State changes in the plant's financial position, including changes in the plant's assets, liabilities, and capital, and the reasons therefor.
12. State changes in the plant's personnel, including changes in the plant's management, and the reasons therefor.
13. State changes in the plant's operations, including changes in the plant's production, and the reasons therefor.
14. State changes in the plant's financial position, including changes in the plant's assets, liabilities, and capital, and the reasons therefor.
15. State changes in the plant's personnel, including changes in the plant's management, and the reasons therefor.
16. State changes in the plant's operations, including changes in the plant's production, and the reasons therefor.
17. State changes in the plant's financial position, including changes in the plant's assets, liabilities, and capital, and the reasons therefor.
18. State changes in the plant's personnel, including changes in the plant's management, and the reasons therefor.
19. State changes in the plant's operations, including changes in the plant's production, and the reasons therefor.
20. State changes in the plant's financial position, including changes in the plant's assets, liabilities, and capital, and the reasons therefor.

A-Important Construction and Retirement Projects:

1. None

2. None

3. None

4. None

5. None

6. None

B-Financial:

7. None

8. See insert sheet 521a

9. None

C-Corporate Organizations:

10. No change

11. No change

D-Franchises:

12. No change

E-Miscellaneous:

13. No

14. No

15. None

III. CHANGES IN GENERAL OFFICERS

List all changes in general officers between the end of the year and the date of verifying the report, giving names of outgoing and incoming officers.

1. J. H. Housh, Assistant Secretary, deceased January 15, 1944

ELECTRIC CORPORATIONS
MANUFACTURED GAS CORPORATIONS
NATURAL GAS CORPORATIONS

CLASSES A AND B

ORIGINAL

YEAR ENDED
DECEMBER 31, 1943

Report of The Brooklyn Union Gas Company

(Show where to file the report companies, first the jurisdictional State of the corporation, having regard to the provisions between the State concerned and the corporation.)

Located at 176 Remsen Street, Brooklyn, N.Y.

(Show place or places, including street and No., of the headquarters with reference thereto within the State.)

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1943

THIS REPORT MUST BE FILED WITH THE PUBLIC SERVICE COMMISSION, ALBANY, N. Y., NOT LATER THAN MARCH 15, 1944.

42. GAS PLANTS—WATER TOWER DATA

1. Show the location and the designation of each of the special manufacturing gas plants in the vicinity of the water gas plant and the location of each of the special manufacturing gas plants in the vicinity of the water gas plant. The location of each of the special manufacturing gas plants in the vicinity of the water gas plant shall be shown on the map. The location of each of the special manufacturing gas plants in the vicinity of the water gas plant shall be shown on the map. The location of each of the special manufacturing gas plants in the vicinity of the water gas plant shall be shown on the map.

2. If any such plant was held by respondent under any title other than full ownership, give full particulars as to the nature of the title held by respondent.

Line No.	Location and designation of plant	Number of units			Gases output (cubic ft. per hr.)		
		Gas	Steam	Water	Water gas	Coal gas	Other products (specify)
		sq.	sq.	sq.	sq.	sq.	sq.
1	Manhattan and Varick Avenues, Brooklyn						
2	Coal Gas Co. - Greenpoint Works						
3	111 East Street, Brooklyn - City Gas Co.						
4	Manhattan and Varick Avenues - Brooklyn						
5	Water Gas - Greenpoint Works						
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43. WATER TOWER DATA

1. Show the location and the designation of each of the water towers in the vicinity of the water gas plant and the location of each of the water towers in the vicinity of the water gas plant. The location of each of the water towers in the vicinity of the water gas plant shall be shown on the map. The location of each of the water towers in the vicinity of the water gas plant shall be shown on the map. The location of each of the water towers in the vicinity of the water gas plant shall be shown on the map.

Line No.	Designation of plant	Number of units	Name of water	Year installed	Capacity, cu. ft.	Gallons per minute (at 100 ft. head)	Gallons per minute (at 100 ft. head)
1	City Gas Co. (Manhattan)						
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44. DISTILLING

1. Show the location and the designation of each of the distilling plants in the vicinity of the water gas plant and the location of each of the distilling plants in the vicinity of the water gas plant. The location of each of the distilling plants in the vicinity of the water gas plant shall be shown on the map. The location of each of the distilling plants in the vicinity of the water gas plant shall be shown on the map. The location of each of the distilling plants in the vicinity of the water gas plant shall be shown on the map.

2. If any such plant was held by respondent under any title other than full ownership, give full particulars as to the nature of the title held by respondent.

Line No.	Designation of plant or boiler	Number of units	Water or boiler		Steam		Other products (specify)	
			sq.	sq.	sq.	sq.	sq.	sq.
1								
2								
3								
4								
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120 - Boilers

No.	Description of Plant or Station (a)	Number of Units (b)	Maker or Builder (c)	1954-1955		1956		Year Installed (d)	Capacity of (e)
				Installed (f)	hp. (g)	hp. (h)	Maker or Builder (i)		
"	City Gas Works					1	North-Seymour Co.	1920	800,000
"	Greenspoint Works					1	"	1920	1,000,000
"	Water Gas								
"	Belmont Ave. Sta.	1	North-Seymour Co.	1900	3,250,000				
"	Fifth St. Sta.	"	"	1903	5,000,000				
"	Fleetside Station	"	"	1905	1,000,000				
"	"	"	"	1909	3,000,000				
"	"	"	"	1924	5,000,000				
"	Manhattan Ave. Sta.	"	"	1927	15,000,000				
"	Westview Sta.	"	"	1910	10,000,000				
"	"	"	"	1921	10,000,000				
"	Abolus St. Sta.	"	"	1899	1,475,000				
"	Twelfth St. Sta.	"	"	1900	5,000,000				
"	Kyle Ave. Sta.	"	"	1903	3,000,000				
"	"	"	"	1908	3,000,000				
					29,725,000	I			1000,000

Producer Gas Boiler

Greenspoint Works						1	Western Gas Const. Co.	1928	45,000
City Gas Works									

No. Station Records and Quality of Output-Data

12

Station

(1)

Line 20

The equivalent solid boiler fuel is calculated on the basis of composition of solid to liquid-fired boilers. These figures for the year 1963 are as follows:

Boiler	Pounds per sq. ft.			
	Liquid boiler	Solid boiler	Equivalent solid boiler	Boiler (a)
Babco	100	100	100	100
	(a)	(a)	(a)	(a)
Oil	2.50	6.75	35.01	1.25
Oil/Gas	1.00	5.25	7.88	1.25
Oil/Gas				
Oil/Gas				
Average (weighted)	2.06	5.77	6.70	1.25

$$a + d + b = c$$

Notes: The weight of a gallon of oil averages 8.3 pounds
 $\frac{a}{b} = \frac{c}{d}$

(2) Line 22

Drive power of one generator multiplied by average number of generators in use

(3) Line 23

The basis of the figures in this line is as follows:

Boiler	Gals		Average make per running hour	Drive area per section	Boiler make per sq. ft. of drive area
	made	burning			
Oil	(a, c, e)	(b, d, f)	(a/b)	(c/d)	(e/f)
Oil/Gas	7,571,100	25,750	254,918	68	3,755
Oil/Gas	10,554,170	37,113	284,795	68	4,132
Total	18,125,270	62,863			
Average			220,026	68	3,204

(4) Line 25

It is not possible to report data figures for the Oil/Gas Ratio for the reason that data given were both oil and refinery gas for enrichment purposes, both of which entering engine problem was.

14. SUMMARY OF PRODUCTION AND SALES—GAS

1. Show the quantity of gas produced and sold, and add or subtract disposed of, in cubic feet, for the month of February 1967, by county or group of counties, showing the total for the State of California.

2. Show the quantity of gas in M cu. ft.

County	Gas produced and sold, M cu. ft.			Gas sold or otherwise disposed of, M cu. ft.		
	Kind of gas	Water Gas	Other Gas	Kind of gas	Water Gas	Other Gas
	Produced	Sold	Disposed	Produced	Sold	Disposed
1	Gas used in beginning of year					
2	Produced during year	18,125,928	9,118,947	27,244,875		
3	Produced from associated companies					
4	Produced from other non-associated gas					
5	Produced from associated companies					
6	Gas used available for distribution					
7	Maximum hourly output in M cu. ft.					
8	Gas sold and lost in the year					
9	February 14, 1967 - 6:00 P.M.					
10	Maximum capacity 1 day output, M cu. ft.					
11	Maximum 15 day output					

15. SALES BY MUNICIPALITIES—GAS

1. Show the quantity of gas sold to each municipality, by city, town, village, or county, in cubic feet, for the month of February 1967, by county or group of counties, showing the total for the State of California.

2. Show the quantity of gas sold to each municipality, by city, town, village, or county, in M cu. ft., for the month of February 1967, by county or group of counties, showing the total for the State of California.

County	Municipality	Number of customers	Residential		Commercial and Industrial		Total	
			Sales in M cu. ft.	Revenue	Sales in M cu. ft.	Revenue	Sales in M cu. ft.	Revenue
			00	00	00	00	00	00
1	Alameda	314,812	11,425,220	1,200,000.00	2,324,000	1,000,000.00	13,749,220	2,200,000.00
2	Albany							
3	Alameda							
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4 - Important Considerations and Requirements for Project Success

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Purchased \$20,000.00 principal amount of United States Savings Bonds, Series D
Purchased \$1,750,000.00 principal amount of United States Treasury Tax Notes
Purchased \$1,750,000.00 principal amount of United States Treasury Tax Notes

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1997

THE UNIVERSITY OF CHICAGO

10

THE UNIVERSITY OF CHICAGO

Discussion

7

YEAR ENDED
DECEMBER 31, 1942

Report of The Brooklyn Union Gas Company
(Please show on this the correct corporate, State, or Federal name of the corporation, company, or firm to be regulated under the Public Utilities Law of the State.)
Located at 176 Remsen Street, Brooklyn, N.Y.
(Please give the address, including street and number, of the corporation's principal office within the State.)

TO THE

STATE OF NEW YORK
DEPARTMENT OF PUBLIC SERVICE
Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1942

120 - Holders

No.	Designation of Plant or Station (a)	Works and Building			Capacity Cu. Ft. (e)	Holders			Capacity Cu. Ft. (i)
		No. of Units (b)	Maker or Builder (c)	Year Installed (d)		No. of Units (f)	Maker or Builder (g)	Year Installed (h)	
1	Citizens Works					1	Bartlett-Hayward Co.	1930	806,400
2	Greenpoint Works					1	" " "	1927	1,000,000
	Water Gas								
	Belmont Ave. Sta.	1	Bartlett-Hayward Co.	1923	3,250,000				
	Fifth Street Sta.	1	" " "	1923	5,000,000				
	Flatbush Station	1	" " "	1921	1,000,000				
	" "	1	" " "	1909	5,000,000				
	" "	1	" " "	1921	5,000,000				
	Manhattan Ave. Sta.	1	" " "	1927	15,000,000				
	Seventh Station	1	" " "	1911	10,000,000				
	" "	1	" " "	1921	10,000,000				
	Scholar St. "	1	" " "	1894	1,000,000				
	Twelfth St. "	1	" " "	1905	5,000,000				
	Myrtle Ave. "	1	" " "	1903	5,000,000				
	" " "	1	" " "	1908	1,000,000				
		12			70,750,000	2			1,806,400

Producer Gas Holder

Greenpoint Works- Coke Oven Gas	1	Western Gas Const. Co.	1928	40,000
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*Data changed, per agreement with the Commission Engineers in connection with the revision of Property Units - Case No. 93

10. YIELDING RECORDS AND QUALITY OF CATTLE FEED

Continuing the data submitted on Form No. 1, attach this report containing information regarding production of feed on each acre. An inventory should also be submitted showing feed on hand at the beginning of the season.

No.	Description of feed	Gladstone Field		Drengstad, Pa.		Drengstad, Pa.	
		1933	1934	1933	1934	1935	1936
1	Hay crop, 100 percent moisture (dry weight)				846,707.23		846,707.23
2	Yield per acre of hay crop, No. 1				5.60		5.60
3	Average number stalks per acre in field				90		90
4	Average weight of stalks per acre, lbs.				28,960		28,960
5	Average number of stalks per acre, No. 2				13.09		13.09
6	Average weight of stalks per acre, No. 2				388,903		388,903
7	Yield of hay crop, No. 1				439,675.00		439,675.00
8	Yield of hay crop, No. 2				75.47		75.47
9	Yield of hay crop, No. 3				8,257.647		8,257.647
10	Yield of hay crop, No. 4				9.63		9.63
11	Yield of hay crop, No. 5				-		-
12	Yield of hay crop, No. 6				13,198.999		13,198.999
13	Yield of hay crop, No. 7				109,726.00		109,726.00
14	Yield of hay crop, No. 8				13,644.144		13,644.144
15	Yield of hay crop, No. 9				130		130
16	Yield of hay crop, No. 10				7		7
17	Yield of hay crop, No. 11				3.8		3.8
18	Yield of hay crop, No. 12				6.4		6.4
19	Yield of hay crop, No. 13				28,995.99		28,995.99
20	Yield of hay crop, No. 14				739,374		739,374
21	Yield of hay crop, No. 15				10.33		10.33
22	Yield of hay crop, No. 16				3.1		3.1
23	Yield of hay crop, No. 17				211		211
24	Yield of hay crop, No. 18				4,735		4,735
25	Yield of hay crop, No. 19				17.09		17.09
26	Yield of hay crop, No. 20				30,234.979		30,234.979
27	Yield of hay crop, No. 21				30.73		30.73
28	Yield of hay crop, No. 22				5.79		5.79
29	Yield of hay crop, No. 23				4.54		4.54
30	Yield of hay crop, No. 24				16,000		16,000
31	Yield of hay crop, No. 25				114,744		114,744
32	Yield of hay crop, No. 26				81,301		81,301
33	Yield of hay crop, No. 27				97,432		97,432
34	Yield of hay crop, No. 28				575,000		575,000
35	Yield of hay crop, No. 29				992		992
36	Yield of hay crop, No. 30				596		596
37	Yield of hay crop, No. 31				479		479
38	Yield of hay crop, No. 32				544		544
39	Yield of hay crop, No. 33				79		79

For footnotes see insert sheet 51a

215. Section Weights and Quality of Dairy-Cows

16

Notes:

(1) Item 20
 The equivalent milk factor (m) is calculated on the basis of evaporation of water in liquid-fired boilers. These figures for the year 1942 are as follows:

	Boiler, hot H ₂ O		Equivalent milk factor (m)	
	liquid boiler	solid boiler	liquid boiler	solid boiler
Boiler	(a)	(b)	(a)	(b)
Oilburner	3.13	7.04	12.94	2.66
Gasburner	1.08	9.13	10.00	1.53
Average (m)(m ₂)	2.10	8.58	11.42	1.60

$$x \times d + y \times d$$

Notes: The weight of a gallon of fat averages 10 pounds
 $\frac{a}{n} \times \frac{b}{n} \times \frac{c}{n}$ all $\frac{d}{n}$

(2) Item 22
 Grate surface of one generator multiplied by average number of generators in use.

(3) Item 23
 The basis of the figures on this line is as follows:

	Gas miles	Total hours	Average milk per operating hour	Grate area per machine	Bourly milk per sq. ft. of grate area
Boiler	(a)(b)	(c)	(d)	(e)	(f)
Oilburner	7,777,436	28,529	100,452	120,000	2,762
Gasburner	9,159,007	27,417	231,558	60	4,033
Total	17,936,443	55,946			
Average	220,000	68			6,710

(4) Item 25
 It is not possible to report data figures for the Gasburner boiler due the reason that this plant used both gas oil and refinery gas for equivalent purposes, both of which entering equal proportions.

1. Show item-by-item a summary of gas sold and purchased, and add to determine shipment net. If sales are on the deferred payment basis, show the deferred payment, and add to determine shipment net. If shipment net is shown, show the deferred payment, and add to determine shipment net.

2. Show all quantities of gas in M cu ft.

1	2	Gas produced and purchased, in cu ft.			3	Gas sold to subscribers shipped out, in cu ft.		
		Water Gas	Coke Oven Gas	Total		Gas	Gas	Total
		cu ft.	cu ft.	cu ft.		cu ft.	cu ft.	cu ft.
1	On hand at beginning of year			44,158	Sold to associated companies			—
2	Produced during year	17,181,409	9,479,949	26,661,358	Other sales			25,439,439
3	Purchased from associated companies			—	Transferred to associated companies			—
4	Purchased from other than associated cos.			—	Transferred without direct charge			—
5	Transferred from associated companies			—	Used by companies			98,319
6	Total available for distribution			26,705,316	Gas not accounted for			1,167,282
7	Maximum hourly output in M cu ft.			9,337	On hand at end of year			44,158
8	Days and hours of its operation	December 25, 1925 - 30 days to 1 P.M.			Transferred for gas per unit of shipment			25,339,318
					27 days			218

	January	February	March	April	May	June	July	August	September	October	November	December
9	377,816	389,152	351,809	334,378	313,433	301,478	177,371	189,765	287,825	235,304	271,163	351,586
10	314,068	312,388	87,043	87,840	73,313	64,861	60,373	61,662	81,148	84,738	72,760	130,437

Item (1)	2000 Year Production					2001 Year Production					2002 Year Production				
	Units (2)	Value (3)	Value (4)	Value (5)	Value (6)	Units (7)	Value (8)	Value (9)	Value (10)	Value (11)	Units (12)	Value (13)	Value (14)	Value (15)	Value (16)
In stock at beginning of year		\$0,000.00	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	\$0,000.00	-	-
Produced during year	(1)	\$0,000.00	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00
Used during year		\$0,000.00	-	\$0,000.00	-	-	\$0,000.00	-	-	-	-	-	-	-	-
Units during year		\$0,000.00	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00
In stock at end of year		\$0,000.00	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	\$0,000.00	-	-
Grossing on account of production		\$0,000.00	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00
Production expense		\$0,000.00	-	\$0,000.00	-	-	-	\$0,000.00	-	-	-	\$0,000.00	-	-	-
Expenses from sales		\$0,000.00	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00
Average selling price		\$0,000.00	\$0,000.00	\$0,000.00	-	-	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00	\$0,000.00

Exhibit 2000 20, 21, pursuant.

Exhibit 2000 20, 21, pursuant. Exhibit 2000 20, 21, pursuant.

ORIGINAL

YEAR ENDED
DECEMBER 31, 1941

Report of The Brooklyn Union Gas Company
(Name as that the owner corporation, firm, or individual owner of the respondent, having regard to the distinction between the stockholders and the company)
Located at 176 Remsen Street, Brooklyn, N.Y.
(State give the location, including street and No., of the respondent's main business office within the State)

TO THE

STATE OF NEW YORK
DEPARTMENT OF PUBLIC SERVICE
Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1941

10. MANAGEMENT, PERSONNEL, AND PERFORMANCE DATA

This section is to be completed by the contractor and should contain information on the management, personnel, and performance of the contractor. It should be completed by the contractor and should contain information on the management, personnel, and performance of the contractor. It should be completed by the contractor and should contain information on the management, personnel, and performance of the contractor.

Item No.	Name of person performing the work	Total hours worked		Percentage of work done	Date of report or other action
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The contractor has received no orders, orders to receive from another enterprise, production, individual, or organization of any firm, enterprise, industry, association, partnership, or other type of action of a character as here.

Field Engineer Company, Inc., during 1944, working largely, work of plant and materials in connection with operations with included maintenance of the industry of an enterprise.

11. If any change was made during the year in the position of any person listed above, or in any of the parties therein, identify all such changes and show therein how.

12. If any change was made during the year in the position of any person listed above, or in any of the parties therein, identify all such changes and show therein how.

Item No.	Name of person performing the work	Total hours worked		Percentage of work done	Date of report or other action
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101. GAS PLANTS—WATERGAS PLANTS

1. State the location and the designation of each of the several manufacturing gas plants in service at the beginning of the year, giving corresponding particularities of plants for the manufacture of gas other than coal gas.

2. Give year.

3. Give date plant, which was not in operation at the end of the year, specially in a footnote the reason therefor.

4. Give description of gas gas manufactured, whether or not the plant is maintained in operating condition, or the extent to which it has been dismantled.

5. If any plant were sold by independent action any date other than full ownership, give full particulars in a footnote.

Class Gas Plants

Line No.	Designation of plant	Location of plant (including street and No.)	Plant in operation at end of year	Number of plants	Capacity of plant
(a)	(b)	(c)	(d)	(e)	(f)
1	Coal oven gas				
2	Greenpoint Works	Wapack and Varick Avenues, Brooklyn, New York		1	20,000
3		<i>* Excluding in capacity over 15,000</i>			
4		<i>in day 20,000 that increased in capacity after 1910</i>			

Water Gas Plants

Line No.	Designation of plant	Location of plant (including street and No.)	Plant in operation at end of year	Number of plants	Capacity of plant
(a)	(b)	(c)	(d)	(e)	(f)
1	Citygas Works	433 East Street, Brooklyn, New York		1	20,000
2	Greenpoint Works	Wapack and Varick Avenues, Brooklyn, New York		1	20,000
3					
4		<i>* Excludes stand-by water gas sets at Citygas Works (see below)</i>			

102. WATER GAS SETS

Show hereunder requested particulars of water gas sets located in water gas plants listed in schedule 101.

Line No.	Designation of plant	Number of sets	Name of owner	Year installed	Cost per set (including freight and tax)	Plant in operation at end of year
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1	Citygas Works (stand-by sets)	4	Bartlett Hayward Co.	1908	75.5	14,000
2	"	5	"	1901	60	10,000
3	"	7	"	1901	60	10,000
4	Greenpoint Works	5	"	1907	60	10,000

103. BOLLERS

1. Show hereunder the requested particulars of gas boilers in possession of respondent at the end of the year.

2. If any such sets were sold under any title other than full ownership, give full particulars in a footnote.

Line No.	Designation of plant or station	Works and related				Boiler		
		Number of water	Water or fuel fed	Year installed	Capacity, cu. ft.	Number of water	Water or fuel fed	Year installed
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
1	See Insert sheet 111							

420. ROLLERS

No.	Description of Plant or Station (a)	Roller and Rollers				Roller			
		Year Installed (b)	Maker or Builder (c)	Year Installed (d)	Capacity (e)	Year Installed (f)	Maker or Builder (g)	Year Installed (h)	Capacity (i)
1	Citizens Works					1	Bartlett Hayward Co.	1930	806,000
2	Orangeport Works					1	"	1947	1,000,000
3	Water Gas								
4	Belmont Ave. Sta.	1	Bartlett Hayward Co.	1903	3,450,000				
5	Fifth Street Sta.	1	"	1920	5,000,000				
6	Flatbush Station	1	"	1901	1,000,000				
7	"	1	"	1909	5,000,000				
8	"	1	"	1923	5,000,000				
9	Manhattan Ave. Sta.	1	"	1927	15,000,000				
10	Eastown Station	1	"	1910	10,000,000				
11	"	1	"	1928	10,000,000				
12	Scholar St. Sta.	1	"	1994	1,499,000				
13	Twelfth St. Sta.	1	"	1905	5,000,000				
14	Bythe Ave. Sta.	1	"	1902	5,000,000				
15	"	1	"	1908	5,000,000				
16		16			55,779,000	1			1,886,000

Indirect Gas Roller

1	Orangeport Works							
2	Coke Oven Gas				1	Western Gas Const. Co.	1928	60,000

10. MINION MINERALS AND QUALITY OF MINERAL

Continuing the same information requested as in schedule 10, show the required information regarding production of ore in each mine. All responses should give information requested, lines 10 to 10, inclusive.

a	b	c		d	e	f
		1940	1941			
1	Total tons produced (including other work)	822,122.43				822,122.43
2	Total, per cent, and ton, etc.	1.45				1.45
3	Average number, weight, or value, etc.	70				70
4	Average weight, per cent, or value, etc.	38,400				38,400
5	Average price of production, etc.	13.45				13.45
6	Average value, per cent, or value, per ton, etc.	501,424				501,424
7	Value, etc., per cent	515,122.38				515,122.38
8	Value, etc., per cent, etc. of and value, etc. of, etc.	16.76				16.76
9	Value, etc., per cent, etc.	7,156,122				7,156,122
10	Total, etc., value, etc. of and value, etc. of, etc.	9.45				9.45
11	Total, etc., value, etc. of and value, etc. of, etc.					
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99	Total, etc., value, etc. of and value, etc. of, etc.					
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For footnotes see insert sheet 514 a

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1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

By the undersigned medical officers in White Park, National Warlands and North House, London, dated 16 November 1944.

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[1] The difference of 141.50 tons between this quantity and the amount reported as used on pithead (a) represents balance on hand included in total live plant inventory as at December 31, 1942.

Summary, Gas, and National Gas Compressor

Description and Project Name		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Project Name		Project Number		Project Date		Project Location		Project Status		Project Budget		Project Cost		Project Revenue		Project Profit		Project Loss		Project Break-Even		Project Payback		Project NPV		Project IRR		Project MIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR		Project XNPV		Project XIRR		Project XMIRR	

ELECTRIC CORPORATIONS,
MANUFACTURED GAS CORPORATIONS, CLASSES A AND B,
NATURAL GAS CORPORATIONS

ORIGINAL

YEAR ENDED
DECEMBER 31, 1940

Report of The Brooklyn Union Gas Company,
Located at 176 Remsen Street, Brooklyn, N.Y.

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1940

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WILLIAM B. COLE
JAMES H. COLE
JOHN W. COLE
ROBERT A. COLE

WITNESSES:
JAMES H. BROWN
JOHN J. BROWN

000° 00'
076° 28'
090° 00'



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Author	Year	Country	Sample Size	Method	Findings
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2004-1-16

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(a)	(b)	(c)	(d)
Designation of plant	Location of plant (including street and no.)	City, State, County, and District of Columbia	Designation of owner

1990-1991
 1992-1993

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

1000

FIELD NO. 7109
 1950
 17 July 1950
 near San Antonio, P.

(b)
[REDACTED]

(1)

"I'm not a doctor," he said, "but I think you're
 going to be all right."

(continued)

There are two different types of energy - kinetic energy and potential energy.

112. Auxiliary Agreements at Inspected Gas Plants - Storage Facilities

Item	Description of Plant or Station	Number of Units	Name of Builder	Year Installed	Capacity (#)
1	Allen Street Station	1	Bay State Bayward Co.	1909	5,000,000
2	DeWitt Street Station	1	"	1909	1,000,000
3	Lytle Avenue Station	1	"	1909	5,000,000
4	Lytle Avenue Station	1	"	1909	5,000,000
5	DeWitt Street Station	1	"	1909	1,000,000
6	DeWitt Street Station	1	"	1909	1,000,000
7	Lytle Avenue Station	1	"	1909	5,000,000
8	Lytle Avenue Station	1	"	1909	5,000,000
9	DeWitt Street Station	1	"	1909	1,000,000
10	DeWitt Street Station	1	"	1909	1,000,000
11	Lytle Avenue Station	1	"	1909	5,000,000
12	Lytle Avenue Station	1	"	1909	5,000,000
13	DeWitt Street Station	1	"	1909	1,000,000
14	DeWitt Street Station	1	"	1909	1,000,000
15	Lytle Avenue Station	1	"	1909	5,000,000
16	Lytle Avenue Station	1	"	1909	5,000,000
17	DeWitt Street Station	1	"	1909	1,000,000
18	DeWitt Street Station	1	"	1909	1,000,000
19	Lytle Avenue Station	1	"	1909	5,000,000
20	Lytle Avenue Station	1	"	1909	5,000,000
21	DeWitt Street Station	1	"	1909	1,000,000
22	DeWitt Street Station	1	"	1909	1,000,000
23	Lytle Avenue Station	1	"	1909	5,000,000
24	Lytle Avenue Station	1	"	1909	5,000,000
25	DeWitt Street Station	1	"	1909	1,000,000
26	DeWitt Street Station	1	"	1909	1,000,000
27	Lytle Avenue Station	1	"	1909	5,000,000
28	Lytle Avenue Station	1	"	1909	5,000,000
29	DeWitt Street Station	1	"	1909	1,000,000
30	DeWitt Street Station	1	"	1909	1,000,000
31	Lytle Avenue Station	1	"	1909	5,000,000
32	Lytle Avenue Station	1	"	1909	5,000,000
33	DeWitt Street Station	1	"	1909	1,000,000
34	DeWitt Street Station	1	"	1909	1,000,000
35	Lytle Avenue Station	1	"	1909	5,000,000
36	Lytle Avenue Station	1	"	1909	5,000,000
37	DeWitt Street Station	1	"	1909	1,000,000
38	DeWitt Street Station	1	"	1909	1,000,000
39	Lytle Avenue Station	1	"	1909	5,000,000
40	Lytle Avenue Station	1	"	1909	5,000,000
41	DeWitt Street Station	1	"	1909	1,000,000
42	DeWitt Street Station	1	"	1909	1,000,000
43	Lytle Avenue Station	1	"	1909	5,000,000
44	Lytle Avenue Station	1	"	1909	5,000,000
45	DeWitt Street Station	1	"	1909	1,000,000
46	DeWitt Street Station	1	"	1909	1,000,000
47	Lytle Avenue Station	1	"	1909	5,000,000
48	Lytle Avenue Station	1	"	1909	5,000,000
49	DeWitt Street Station	1	"	1909	1,000,000
50	DeWitt Street Station	1	"	1909	1,000,000

119. *Enallagma cyathigerum* (L.)

[illegible][illegible]

Supplement to Schedule 675

Page 115

Source Sheet No.

Supplement to Schedule 675 Page 615

1	Description of Plant or Station	Type of Fuel	Name of Supplier	Year Installed	Capacity (kw)	Total (kw)
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415 - Auxiliary Apparatus to Manufactured Gas Plants - Others

1	Greenough Electric Co.	2	General Electric Co.	1927	1	2
2				1927	2	2
3				1927	2	2
4				1927	2	2
5				1927	2	2
6				1927	2	2
7				1927	2	2
8				1927	2	2
9				1927	2	2
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95				1927	2	2
96				1927	2	2
97				1927	2	2
98				1927	2	2
99				1927	2	2
100				1927	2	2

1	Greenough Electric Co.	2	General Electric Co.	1927	1	2
2				1927	2	2
3				1927	2	2
4				1927	2	2
5				1927	2	2
6				1927	2	2
7				1927	2	2
8				1927	2	2
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96				1927	2	2
97				1927	2	2
98				1927	2	2
99				1927	2	2
100				1927	2	2

419. Auxiliary apparatus in manufactured gas plants - Boreas

Item	Designation of Plant or Section	No. of Units	Name of Builder	Year Installed	Capacity (cu ft per day)
1	Greengarden Works - C.O.	2	General Electric Co.	1925	1
2	"	1	"	1925	2
3	"	1	"	1925	2
4	"	1	"	1925	2
5	"	1	"	1925	2
6	"	1	"	1925	2
7	"	1	"	1925	2
8	"	1	"	1925	2
9	"	1	"	1925	2
10	"	1	"	1925	2
11	"	1	"	1925	2
12	"	1	"	1925	2
13	"	1	"	1925	2
14	"	1	"	1925	2
15	"	1	"	1925	2
16	"	1	"	1925	2
17	"	1	"	1925	2
18	"	1	"	1925	2
19	"	1	"	1925	2
20	"	1	"	1925	2
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26	"	1	"	1925	2
27	"	1	"	1925	2
28	"	1	"	1925	2
29	"	1	"	1925	2
30	"	1	"	1925	2
31	"	1	"	1925	2
32	"	1	"	1925	2
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149	"	1	"	1925	2
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152	"	1	"	1925	2
153	"	1	"	1925	2
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171	"	1	"	1925	2
172	"	1	"	1925	2
173	"	1	"	1925	2
174	"	1	"	1925	2
175	"	1	"	1925	2
176	"	1	"	1925	2
177	"	1	"	1925	2
178	"	1	"	1925	2
179	"	1	"	1925	2
180	"	1	"	1925	2
181	"	1	"	1925	2
182	"	1	"	1925	2
183	"	1	"	1925	2
184	"	1	"	1925	2
185	"	1	"	1925	2
186	"	1	"	1925	2
187	"	1	"	1925	2
188	"	1	"	1925	2
189	"	1	"	1925	2
190	"	1	"	1925	2
191	"	1	"	1925	2
192	"	1	"	1925	2
193	"	1	"	1925	2
194	"	1	"	1925	2
195	"	1	"	1925	2
196	"	1	"	1925	2
197	"	1	"	1925	2
198	"	1	"	1925	2
199	"	1	"	1925	2
200	"	1	"	1925	2
201	"	1	"	1925	2
202	"	1	"	1925	2
203	"	1	"	1925	2
204	"	1	"	1925	2
205	"	1	"	1925	2
206	"	1	"	1925	2
207	"	1	"	1925	2
208	"	1	"	1925	2
209	"	1	"	1925	2
210	"	1	"	1925	2
211	"	1	"	1925	2
212	"	1	"	1925	2
213	"	1	"	1925	2
214	"	1	"	1925	2
215	"	1	"	1925	2
216	"	1	"	1925	2
217	"	1	"	1925	2
218	"	1	"	1925	2
219	"	1	"	1925	2
220	"	1	"	1925	2
221	"	1	"	1925	2
222	"	1	"	1925	2
223	"	1	"	1925	2
224	"	1	"	1925	2
225	"	1	"	1925	2
226	"	1	"	1925	2
227	"	1	"	1925	2
228	"	1	"	1925	2
229	"	1	"	1925	2
230	"	1	"	1925	2
231	"	1	"	1925	2
232	"	1	"	1925	2
233	"	1	"	1925	2
234	"	1	"	1925	2
235	"	1	"	1925	2
236	"	1	"	1925	2
237	"	1	"	1925	2
238	"	1	"	1925	2
239	"	1	"	1925	2
240	"	1	"	1925	2
241	"	1	"	1925	2
242	"	1	"	1925	2
243	"	1	"	1925	2
244	"	1	"	1925	2
245	"	1	"	1925	2
246	"	1	"	1925	2
247	"	1	"	1925	2
248	"	1	"	1925	2
249	"	1	"	1925	2
250	"	1	"	1925	2
251	"	1	"	1925	2
252	"	1	"	1925	2
253	"	1	"	1925	2
254	"	1	"	1925	2
255	"	1	"	1925	2
256	"	1	"	1925	2
257	"	1	"	1925	2
258	"	1	"	1925	2
259	"	1	"	1925	2
260	"	1	"	1925	2
261	"	1	"	1925	2
262	"	1	"	1925	2
263	"	1	"	1925	2
264	"	1	"	1925	2
265	"	1	"	1925	2
266	"	1	"	1925	2
267	"	1	"	1925	2
268	"	1	"	1925	2
269	"	1	"	1925	2
270	"	1	"	1925	2
271	"	1	"	1925	2
272	"	1	"	1925	2
273	"	1	"	1925	2
274</					

412. Auxiliary Appliances in Manufactured Gas Plants - Motors

Designation of Plant or Station	No. of Units	Maker or Builder	Year Installed	Base	Capacity
(a)	(b)	(c)	(d)	(e)	(f)

Greenpoint Works-Combination	4	General Electric Co.	1920	10	40
			1921	15	60
			1922	20	80
			1923	25	100
			1924	30	120
			1925	35	140
			1926	40	160
			1927	45	180
			1928	50	200
			1929	55	220
			1930	60	240
			1931	65	260
			1932	70	280
			1933	75	300
			1934	80	320
			1935	85	340
			1936	90	360
			1937	95	380
			1938	100	400
			1939	105	420
			1940	110	440
			1941	115	460
			1942	120	480
			1943	125	500
			1944	130	520
			1945	135	540
			1946	140	560
			1947	145	580
			1948	150	600
			1949	155	620
			1950	160	640
			1951	165	660
			1952	170	680
			1953	175	700
			1954	180	720
			1955	185	740
			1956	190	760
			1957	195	780
			1958	200	800
			1959	205	820
			1960	210	840
			1961	215	860
			1962	220	880
			1963	225	900
			1964	230	920
			1965	235	940
			1966	240	960
			1967	245	980
			1968	250	1000
			1969	255	1020
			1970	260	1040
			1971	265	1060
			1972	270	1080
			1973	275	1100
			1974	280	1120
			1975	285	1140
			1976	290	1160
			1977	295	1180
			1978	300	1200
			1979	305	1220
			1980	310	1240
			1981	315	1260
			1982	320	1280
			1983	325	1300
			1984	330	1320
			1985	335	1340
			1986	340	1360
			1987	345	1380
			1988	350	1400
			1989	355	1420
			1990	360	1440
			1991	365	1460
			1992	370	1480
			1993	375	1500
			1994	380	1520
			1995	385	1540
			1996	390	1560
			1997	395	1580
			1998	400	1600
			1999	405	1620
			2000	410	1640
			2001	415	1660
			2002	420	1680
			2003	425	1700
			2004	430	1720
			2005	435	1740
			2006	440	1760
			2007	445	1780
			2008	450	1800
			2009	455	1820
			2010	460	1840
			2011	465	1860
			2012	470	1880
			2013	475	1900
			2014	480	1920
			2015	485	1940
			2016	490	1960
			2017	495	1980
			2018	500	2000
			2019	505	2020
			2020	510	2040
			2021	515	2060
			2022	520	2080
			2023	525	2100
			2024	530	2120
			2025	535	2140
			2026	540	2160
			2027	545	2180
			2028	550	2200
			2029	555	2220
			2030	560	2240
			2031	565	2260
			2032	570	2280
			2033	575	2300
			2034	580	2320
			2035	585	2340
			2036	590	2360
			2037	595	2380
			2038	600	2400
			2039	605	2420
			2040	610	2440
			2041	615	2460
			2042	620	2480
			2043	625	2500
			2044	630	2520
			2045	635	2540
			2046	640	2560
			2047	645	2580
			2048	650	2600
			2049	655	2620
			2050	660	2640
			2051	665	2660
			2052	670	2680
			2053	675	2700
			2054	680	2720
			2055	685	2740
			2056	690	2760
			2057	695	2780
			2058	700	2800
			2059	705	2820
			2060	710	2840
			2061	715	2860
			2062	720	2880
			2063	725	2900
			2064	730	2920
			2065	735	2940
			2066	740	2960
			2067	745	2980
			2068	750	3000
			2069	755	3020
			2070	760	3040
			2071	765	3060
			2072	770	3080
			2073	775	3100
			2074	780	3120
			2075	785	3140
			2076	790	3160
			2077	795	3180
			2078	800	3200
			2079	805	3220
			2080	810	3240
			2081	815	3260
			2082	820	3280
			2083	825	3300
			2084	830	3320
			2085	835	3340
			2086	840	3360
			2087	845	3380
			2088	850	3400
			2089	855	3420
			2090	860	3440
			2091	865	3460
			2092	870	3480
			2093	875	3500
			2094	880	3520
			2095	885	3540
			2096	890	3560
			2097	895	3580
			2098	900	3600
			2099	905	3620
			2100	910	3640
			2101	915	3660
			2102	920	3680
			2103	925	3700
			2104	930	3720
			2105	935	3740
			2106	940	3760
			2107	945	3780
			2108	950	3800
			2109	955	3820
			2110	960	3840
			2111	965	3860
			2112	970	3880
			2113	975	3900
			2114	980	3920
			2115	985	3940
			2116	990	3960
			2117	995	3980
			2118	1000	4000
			2119	1005	4020
			2120	1010	4040
			2121	1015	4060
			2122	1020	4080
			2123	1025	4100
			2124	1030	4120
			2125	1035	4140
			2126	1040	4160
			2127	1045	4180
			2128	1050	4200
			2129	1055	4220
			2130	1060	4240
			2131	1065	4260
			2132	1070	4280
			2133	1075	4300
			2134	1080	4320
			2135	1085	4340
			2136	1090	4360
			2137	1095	4380
			2138	1100	4400
			2139	1105	4420
			2140	1110	4440
			2141	1115	4460
			2142	1120	4480
			2143	1125	4500
			2144	1130	4520
			2145	1135	4540
			2146	1140	4560
			2147	1145	4580
			2148	1150	4600
			2149	1155	4620
			2150	1160	4640
			2151	1165	4660
			2152	1170	4680
			2153	1175	4700
			2154	1180	4720
			2155	1185	4740
			2156	1190	4760
			2157	1195	4780
			2158	1200	4800
			2159	1205	4820
			2160	1210	4840
			2161	1215	4860
			2162	1220	4880
			2163	1225	4900
			2164	1230	4920
			2165	1235	4940
			2166	1240	4960
			2167	1245	4980
			2168	1250	5000
			2169	1255	5020
			2170	1260	5040
			2171	1265	5060
			2172	1270	5080
			2173	1275	5100
			2174	1280	5120
			2175	1285	5140
			2176	1290	5160
			2177	1295	5180
			2178	1300	5200
			2179	1305	5220
			2180	1310	5240
			2181	1315	5260
			2182	1320	5280
			2183	1325	5300
			2184	1330	5320
			2185	1335	5340
			2186	1340	5360
			2187	1345	

478. Auxiliary apparatus in Manufactured Gas Plants - Bureau

No.	Description of Plant or System	Serial	Name of Builder	Year Installed	Capacity	
					(cu)	(x)
1	Continuous Works	1903	Westinghouse Electric & Mfg. Co.	1903	5	10
2	"	1903	"	1903	1.5	10
3	"	1904	"	1904	10	10
4	"	1904	"	1904	1.5	10
5	"	1904	"	1904	10	10
6	"	1904	"	1904	1.5	10
7	"	1904	"	1904	10	10
8	"	1904	"	1904	1.5	10
9	"	1904	"	1904	10	10
10	"	1904	"	1904	1.5	10
11	"	1904	"	1904	10	10
12	"	1904	"	1904	1.5	10
13	"	1904	"	1904	10	10
14	"	1904	"	1904	1.5	10
15	"	1904	"	1904	10	10
16	"	1904	"	1904	1.5	10
17	"	1904	"	1904	10	10
18	"	1904	"	1904	1.5	10
19	"	1904	"	1904	10	10
20	"	1904	"	1904	1.5	10
21	"	1904	"	1904	10	10
22	"	1904	"	1904	1.5	10
23	"	1904	"	1904	10	10
24	"	1904	"	1904	1.5	10
25	"	1904	"	1904	10	10
26	"	1904	"	1904	1.5	10
27	"	1904	"	1904	10	10
28	"	1904	"	1904	1.5	10
29	"	1904	"	1904	10	10
30	"	1904	"	1904	1.5	10
31	"	1904	"	1904	10	10
32	"	1904	"	1904	1.5	10
33	"	1904	"	1904	10	10
34	"	1904	"	1904	1.5	10
35	"	1904	"	1904	10	10
36	"	1904	"	1904	1.5	10
37	"	1904	"	1904	10	10
38	"	1904	"	1904	1.5	10
39	"	1904	"	1904	10	10
40	"	1904	"	1904	1.5	10
41	"	1904	"	1904	10	10
42	"	1904	"	1904	1.5	10
43	"	1904	"	1904	10	10
44	"	1904	"	1904	1.5	10
45	"	1904	"	1904	10	10
46	"	1904	"	1904	1.5	10
47	"	1904	"	1904	10	10
48	"	1904	"	1904	1.5	10
49	"	1904	"	1904	10	10
50	"	1904	"	1904	1.5	10
51	"	1904	"	1904	10	10
52	"	1904	"	1904	1.5	10
53	"	1904	"	1904	10	10
54	"	1904	"	1904	1.5	10
55	"	1904	"	1904	10	10
56	"	1904	"	1904	1.5	10
57	"	1904	"	1904	10	10
58	"	1904	"	1904	1.5	10
59	"	1904	"	1904	10	10
60	"	1904	"	1904	1.5	10
61	"	1904	"	1904	10	10
62	"	1904	"	1904	1.5	10
63	"	1904	"	1904	10	10
64	"	1904	"	1904	1.5	10
65	"	1904	"	1904	10	10
66	"	1904	"	1904	1.5	10
67	"	1904	"	1904	10	10
68	"	1904	"	1904	1.5	10
69	"	1904	"	1904	10	10
70	"	1904	"	1904	1.5	10
71	"	1904	"	1904	10	10
72	"	1904	"	1904	1.5	10
73	"	1904	"	1904	10	10
74	"	1904	"	1904	1.5	10
75	"	1904	"	1904	10	10
76	"	1904	"	1904	1.5	10
77	"	1904	"	1904	10	10
78	"	1904	"	1904	1.5	10
79	"	1904	"	1904	10	10
80	"	1904	"	1904	1.5	10
81	"	1904	"	1904	10	10
82	"	1904	"	1904	1.5	10
83	"	1904	"	1904	10	10
84	"	1904	"	1904	1.5	10
85	"	1904	"	1904	10	10
86	"	1904	"	1904	1.5	10
87	"	1904	"	1904	10	10
88	"	1904	"	1904	1.5	10
89	"	1904	"	1904	10	10
90	"	1904	"	1904	1.5	10
91	"	1904	"	1904	10	10
92	"	1904	"	1904	1.5	10
93	"	1904	"	1904	10	10
94	"	1904	"	1904	1.5	10
95	"	1904	"	1904	10	10
96	"	1904	"	1904	1.5	10
97	"	1904	"	1904	10	10
98	"	1904	"	1904	1.5	10
99	"	1904	"	1904	10	10
100	"	1904	"	1904	1.5	10

Notes: (1) In a footnote to an explanation in an adjacent column.

418. Auxiliary agencies in manufacturing gas plants - Bureau

No.	Description of Plant or Division	No. of Units	Value of Output	Year Installed	Value of Output	Remarks
		(a)	(b)	(c)	(d)	(e)
1	Maple, Inc., Division (10)	1	1,000	1920	10	
				1921		
				1922		
				1923		
				1924		
				1925		
				1926		
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				2098		
				2099		
				2100		

Previously reported as Greenpoint Works-Combustion

Previously reported as Greenpoint Works-City

Previously reported as The Baiting

Previously reported as Greenpoint Works-Combustion

Previously reported as Greenpoint Works-City

Previously reported as The Baiting

Previously reported as Greenpoint Works-Combustion

Previously reported as Greenpoint Works-City

Previously reported as The Baiting

Previously reported as Greenpoint Works-Combustion

419. Auxiliary Apparatus at Manufactured Gas Plant - Rollers

d	Designation of Plant or Station (a)	Number of Rollers (b)	Maker of Rollers (c)	Year Installed (d)	Estimated Value (e)	
					Each (f)	Total (g)
1	Citizen Works	3	Rebeck & Wilson Co.	1929	600	1,800
2	"	3	"	1934	600	1,800
3	Greenpoint Works-Cash,	3	"	1927	600	1,800
4	"	6	Wicks Roller Co.	1927	300	1,800
5	"	7	"	1927	250	1,750
6	"	7	"	1928	176	1,232
7	Twelfth St. Station	3	Rebeck & Wilson Co.	1913	440	1,320
8	"	1	"	1913	440	440
9	School St. Station	1	Rebeck & Wilson Co.	1900	250	250
10	"	1	Bryant Roller Co.	1928	5.3	5.3
11	"	1	Bryant Roller & Mfg. Co.	1930	20	20
12	"	1	American Radiator Co.	1927	300	300
13	"	1	"	1928	297	297
14	"	1	Rolling Coal Roller Co.	1924	297	297
15	"	1	Rebeck & Wilson Co.	1934	5.1	5.1
16	Belmont Avenue Station	2	American Radiator Co.	1923	100	200
17	"	1	Rebeck & Wilson Co.	1926	5.1	5.1
18	Flatbush Station	2	American Radiator Co.	1922	240	480
19	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
20	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
21	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
22	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
23	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
24	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
25	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
26	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
27	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
28	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
29	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
30	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
31	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
32	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
33	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
34	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
35	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
36	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
37	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
38	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
39	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
40	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
41	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
42	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
43	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
44	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
45	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
46	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
47	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
48	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
49	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
50	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
51	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
52	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
53	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
54	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
55	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
56	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
57	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
58	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
59	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
60	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
61	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
62	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
63	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
64	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
65	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
66	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
67	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
68	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
69	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
70	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
71	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
72	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
73	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
74	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
75	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
76	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
77	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
78	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
79	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
80	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
81	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
82	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
83	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
84	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
85	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
86	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
87	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
88	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
89	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
90	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
91	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
92	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
93	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
94	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
95	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
96	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
97	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
98	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
99	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480
100	Flatbush Station	2	Rebeck & Wilson Co.	1921	240	480

419. Auxiliary Apparatus at Manufactured Gas Plant - Bidders

d	Designation of Plant or Station (c)	Number of Units (d)	Maker or Supplier (h)	Year Installed (i)	Capacity (v)	
					Each (j)	Total (k)
1	Gittusand Works	3	Babcock & Wilcox Co.	1923	600	1,800
2	"	3	"	1924	600	1,800
3	Greenpoint Works-Carb.	3	"	1927	600	1,800
4	"	6	McCue Radiator Co.	1927	300	1,800
5	"	7	"	1928	175	1,225
6	Twelfth St. Station	2	Babcock & Wilcox Co.	1910	440	880
7	"	1	"	1912	440	440
8	Scholar St. Station	1	Revelation Radiator Co.	1900	250	250
9	"	1	Braynt Mather & Bfg. Co.	1928	250	250
10	"	1	American Radiator Co.	1928	250	250
11	"	1	"	1928	20	20
12	Byrnes Avenue Station	2	Starling Cons. Radiator Co.	1927	300	600
13	"	1	Babcock & Wilcox Co.	1923	297	297
14	"	1	"	1924	297	297
15	"	1	American Radiator Co.	1924	5.1	5.1
16	Belmont Avenue Station	2	Revelation Radiator Co.	1923	105	210
17	"	2	American Radiator Co.	1924	5.1	10.2
18	Flatbush Station	2	Babcock & Wilcox Co.	1924	250	500
19	Brooklyn Station	2	Aultman & Taylor Radiator Co.	1911	250	500
20		46			250	11,550

Notes on Schedule 515. Station Reports and Quality of Output - Gas

Line 20

(1.)

The equivalent solid boiler fuel is calculated on the ratio of evaporation of gas to liquid-fired boilers. These figures for the year 1940 were as follows:

Boiler	Liquid boiler fuel		Equivalent solid boiler fuel	
	(a)	(b)	(c)	(d)
Oil-fired	2.96	.82	10.69	1.86
Gas-fired	3.28	4.15	9.37	1.59
Average =	1.66	2.49	10.04	1.82

$$(a \times d + b \times c)$$

Note: The weight of a gallon of gas averages 10 pounds.

+ *See also supplementary page.*

Line 22

(2.)

Gross surface of the generator multiplied by average number of generators in use.

Line 23

(3.) The basis of the figures on this line is as follows:

Boiler	Gas made (lb. 200.000)		Total hours		Average rate per running hour		Gross area per machine		Hourly rate per sq. ft. of grate	
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Oil-fired	8,211,481	31,958	256,967	17,710	1,450,403	1,450,403	1,450,403	1,450,403	3,777	3,777
Gas-fired	7,797,871	17,710	4,36,403	17,710	4,36,403	4,36,403	4,36,403	4,36,403	6,415	6,415
Totals	15,999,352	49,668	261,370	35,420	5,814,806	5,814,806	5,814,806	5,814,806	10,192	10,192
Averages										

Line 24

(4.)

It is not feasible to report this figure for the Gaspoint Works for the reason that this plant used both gas and refinery gas for enrichment purposes, both of which enriching agents produce tar.

519. Gas Residuals

Supplement to Schedule 129 Page 207

Item (a)	Crude Tar Gals. (b)	Crude Gas Tar Gals. (c)	Water Gas Tar Gals. (d)	Ammoniacal Liquor Gals. (e)	Carbon Dis. (f)	Crude Oil Gals. (g)	Sulfate of Ammonia Net Tons (h)	Soph- thalene Pounds (i)	Crude Light Oil of Coal Tar Gals. (j)
On hand at beginning of year	82,826.22	281,000	1,000,834			94,383	434.58	-	-
Made during year	(1) 642,917.12	4,966,146	11,621,049			1,663,295	9,328.71	411,937	2,348
Used during year	(2) 275,884.23	-	7,368,185			-	-	-	-
Sold during year	344,135.64	7,021,146	4,378,734			1,079,322	9,375.55	411,937	2,348
On hand at end of year	84,721.25	228,000	895,027			85,126	180.68	-	-
Credits on account of residuals produced	\$83,871,789.00	\$313,566.57	\$433,453.09			\$83,955.58	\$277,389.80	\$3,913.30	\$1,643.60
Residuals expense	82,467.87	-	8,353.83			-	110,074.50	-	-
Receipts from sales	2,086,828.87	315,953.57	197,648.01			83,207.36	262,437.29	3,913.30	1,643.60
Average selling price	.0639	.0450	.0451			.0789	27.4156	.0144	.7000

(1) Includes 11,644.57 B.T. purchased
" 2,673.55 " transferred from Citizens Works

Additional work done or reported on since filed with

Col. (i)	of 3,341.54	
(2)	2,000.00	
(3)	10,000.00	
(4)	100,000.00	
(5)	100,000.00	
(6)	100,000.00	
(7)	100,000.00	
(8)	100,000.00	
(9)	100,000.00	
(10)	100,000.00	
(11)	100,000.00	
(12)	100,000.00	
(13)	100,000.00	
(14)	100,000.00	
(15)	100,000.00	
(16)	100,000.00	
(17)	100,000.00	
(18)	100,000.00	
(19)	100,000.00	
(20)	100,000.00	
(21)	100,000.00	
(22)	100,000.00	
(23)	100,000.00	
(24)	100,000.00	
(25)	100,000.00	
(26)	100,000.00	
(27)	100,000.00	
(28)	100,000.00	
(29)	100,000.00	
(30)	100,000.00	
(31)	100,000.00	
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(97)	100,000.00	
(98)	100,000.00	
(99)	100,000.00	
(100)	100,000.00	

Through account 730 or 748

This Important Data of Plant & Equipment Installed during the Year

No.	Location and Description (a)	Book Cost (b)			
		Installed	Year	Installed	Book Cost
1	Electrical Work				
2	To construct a concrete pump 20' x 55' x 15' deep,				
3	rest of Sub-Station "C"				6,410.45
4	To install centrifugal substation and associated				
5	equipment; replace latent valves with butterfly				
6	valves; replace valves; run 8" auxiliary pipe				
7	1100 Free Boiler House to Substation House				26,000.44 (1)
8	To install automatic oil/petro diesel and steam (2)				33,000.45 (2)
9	refrigerator pump with associated equipment				4,135.73
10	To install "substation" overground piping and				28,000.00
11	working on various concrete				
12					
13	General House Work				
14	To drive piling and install bracing to support 40" water				18,500.00
15	header				25,000.00
16				Total	
17					
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Installation of items included in Schedule A12, page A12 - but not included above

Items from marked (1a) is identifiable with (1)

Items marked (2a) are identifiable with (2)

504: Important Data of Plant and Equipment Retired during the Year

No.	Location and Description (a)	Book Cost (b)
1	Station Work	
2	Gas Piping in Yard	\$ 2,807.23
3	Greenwald Building	
4	2 - Worthington Pumps with 2 General Electric motors and associated equipment	1,497.44 (1)
5	Shooting and roofs for various cannons	6,872.26 10,369.70
6		
7	Barnett Avenue Station	
8	Miscellaneous apparatus, piping and wiring w/ installation of new compressor	6,342.46
9		
10	Edin Avenue Station	
11	Boiler Heating (Hot Water) System	6,208.41
12		
13	Total	\$ 22,072.38
14		
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ORIGINAL

YEAR 1938

RECEIVED BY

1938

Report of The Brooklyn Union Gas Company,

Located at 176 Remsen Street, Brooklyn, N. Y.

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1938

Continuing the same information presented in Schedule No. 1, show the following information relating to the production of milk and cream. All amounts should give information requested, from 10 to 12, inclusive.

1944		1945		1946		1947	
lb.	cts.	lb.	cts.	lb.	cts.	lb.	cts.
1	2	3		4		5	
1. <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - <u>Wheat</u> - 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Report for the Year Ending December 31, 1900

526: 12a Important Units of Plant and Equipment Installed
During the Year

Line No.	Location and description (a)	Book Cost (b)
1	<u>Maspeth Avenue Station:</u>	
2	1 - 950 HP C.E.Motor used as a spare on Compressors.	\$ 6,706.77
3		
4	<u>Greenpoint Works - Combination:</u>	
5	N. Y. City Assessment - Acquiring title to upland within U. S. bulkhead line.	\$ 15,687.74
6		
7		
8		

526-12 b. Important Units of Plant and Equipment Withdrawn during the Year

Line No.	Book Cost
	\$
1 Fulton Works	
2 Other Physical Property (Land Sold)	<u>111,428.88</u>
3	
4 Greenpoint Works - Coke Oven Plant	
5 Gas Plant in Service	
6 Miscellaneous Hoppers, Chutes, etc. in	
7 Domestic Screening Station	6,885.57
8	
9 Scraper Conveyor C 18 at Battery	
10 Coal Bins	<u>9,613.74</u>
11	<u>16,499.81</u>
12	
13 Twelfth Street Station	
14 Gas Plant in Service	
15 Miscellaneous Piping transferred from	
16 Metropolitan Works to Twelfth Street	
17 Station not found at time of inventory	
18 check	<u>2,541.65</u>
19	
20 Maspeth Avenue Station	
21 Gas Plant in Service	
22 2 Lullow Gate Valves with Safety Guards	<u>5,052.21</u>
23	
24	
25	
26	
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29	
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31	

ORIGINAL

YEAR ENDED 1939
DECEMBER 31

Report of The Brooklyn Union Gas Company

Located at 176 Remsen Street, Brooklyn, N.Y.

TO THE

STATE OF NEW YORK

DEPARTMENT OF PUBLIC SERVICE

Public Service Commission

FOR THE YEAR ENDED DECEMBER 31, 1939

101. CONTROL.

1. Show the requested information concerning members of the respondent who at the date of the latest closing of the stock-book prior to the actual filing of this report held one per centum or more of the voting capital stock of the respondent. If the stock-book was not closed within one year, show such members as of the end of the year.

particulars.

2. Append hereto as a permanent part of the report a certified copy of the trust agreement or other instrument under which any voting capital stock of the respondent held if such documents are on file with the reporting corporation; if they are not on file state that fact.

3. If voting power was not in proportion to the number of shares held, give full

Number of voting shares held (date) Dec. 31, 1939.

Line	Name of member (a)	Address of member (b) city street No.	Common (c)	Preferred		Other securities with voting power	
				First (d)	Second (e)	(f)	(g)
1	Koppers Company	P. O. Box 551	70,000				
2	Esmont Company	Wilmington,	57,940				
3	Falmouth Company	Del.	80,000				
4	William E. Coe	Chrysler Building					
5		E. 42nd Street,					
6		New York City	11,948				
7							
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155 B. CONTROL BY OTHER CORPORATIONS

1. List hereunder each holding of one or more of the voting stock of the respondent, by another corporation, and identify each such holding with a number in column (4), identical with the line Number of the same firm under schedule 201, any.

2. Show in columns (c) to (h) the requested information regarding above and direct

date of the merger corporation and regarding the stockholders shared information as many of the voting stock if such information is available from the respondent. If data for columns (a) to (d) are not available, state that fact in respect of each such corporation.

[illegible]

107 - Construction Work in Progress

Line No.	Work Order No.	Location and Description of Project	Estimated Total Cost of Project	Balance Un-distributed at beginning of year	Amount Expended During Year	Amount Distributed To accounts for plant in serv.	Amount Distributed To other accounts	Balance Undistributed at end of year
		<u>Citizens Works</u>						
	20204	Install 8 section condenser, etc.	\$ 75,000.00	\$ 67,860.04	\$ 65.84	\$ 66,895.20	\$ 1,064.11	\$ -
			\$ 75,000.00	\$ 67,860.04	\$ 65.84	\$ 66,895.20	\$ 1,064.11	\$ -
		<u>Greenpoint Works</u>						
	20204	Install sulphate drier and 3 saturator pumps	\$ 26,000.00	\$ 19,905.10	\$ 15,145.16	\$ -	\$ -	\$ 24,097.96
	20212	Install rock wool insulation on top of 12 coke oven purifier houses	11,000.00	9,274.77	-	9,274.77	-	-
	20228	Interconnect water gas and coke oven gas purifiers	5,500.00	5,595.24	62.84	5,766.16	-	-
	20242	Install 30" conveyor, extend bridge tracks, etc.	33,000.00	356.00	1,144.26	-	1,800.28	-
	21202	Install centrifugal exhauster	36,000.00	-	14,992.39	-	-	14,992.39
	21236	Construct concrete ramp, 20' x 30' x 12' deep	10,100.00	-	6,718.31	-	-	6,718.31
	21207	Replace galvanized sheeting with Transite sheeting on portions of coal and coke conveyors	10,998.00	-	10,854.72	10,011.83	842.76	-
			\$ 129,098.00	\$ 97,365.30	\$ 22,434.74	\$ 20,906.99	\$ 1,146.91	\$ 45,737.35
		<u>Maple Avenue Station</u>						
	20204	Piling and bracing to support main	\$ 20,600.00	\$ 19,450.51	164.01	\$ -	\$ 547.69	\$ 20,142.81
	20406	Install one 30" x 30" Connorsville gas compressor, complete with 1000 H.P. 300 R.P.M. synchronous motor	84,000.00	74,702.61	2,806.77	77,509.38	361.24	-
	21479	Install new separator	7,500.00	-	2,126.65	-	-	2,126.65
			\$ 112,100.00	\$ 94,152.32	\$ 2,971.42	\$ 77,509.38	\$ 908.93	\$ 27,239.35
		<u>Distribution Department</u>						
	18230	To supply gas to N.Y. 1936 World's Fair	\$ 237,963.00	\$ 12,484.71	\$ 24,464.67	\$ 21,248.10	\$ 5,453.72	\$ 149.76
	20246	Main extensions year 1936	479,000.00	24,058.71	349.00	22,709.65	-	-
	20248	Purchase of meters year 1936	175,000.00	-	1,265.86	1,265.86	-	-
	20782	Install district governors	4,700.00	9.08	3,943.05	3,938.15	-	-
	20824	Meter installations	75,200.00	-	75,675.27	75,006.00	128.75	-

211. OTHER PHYSICAL PROPERTY

#	Location and Description of Property (a)	Year Acquired (b)	Cost to Respondent (c)	Book Cost at end of Year (d)	Revenues During Tr. (e)	Revenues Deductions During Year				Net Revenue (j)
						Price, \$ (f)	Depreciation (g)	Station Charges (h)	Other (i)	
1	Fulton Works	1878								
2	Land	to 1915	188,415.14	188,415.14	187.50	4,227.27	509.48	-	118.65	3,584.24
3	Greenpoint Works	1881								
4	Land	to 1900	11,604,419.04	11,604,419.04	-	1,459.50	-	-	-	1,459.50
5	Metropolitan Works	1878								
6	Land	to 1915	205,572.59	205,572.59	-	7,669.27	12.02	46.21	16.78	7,184.25
7	Fence	to 1915	2,193.64	2,193.64	-	-	-	-	-	-
8	Massena Works	1878								
9	Land	to 1915	1,847,019.75	1,847,019.75	3,465.94	10,595.19	1,174.31	1.59	175.55	12,478.41
10	Fence	to 1915	185.00	185.00	-	-	-	-	-	-
11	Williamstown Works	1880								
12	Land	to 1915	589,747.46	589,747.46	-	73,848.85	25.20	424.95	486.49	74,284.25
13	Fence	Prior to 1915	14,459.64	14,459.64	-	-	-	-	-	-
14	Front Street Station	1880								
15	Land	to 1915	168,825.25	168,825.25	7.75	3,347.53	599.48	599.97	3.86	4,355.23
16	Fence	Prior to 1915	1,926.53	1,926.53	-	-	-	-	-	-
17	Retaining Walls	Prior to 1915	13,791.84	13,791.84	-	-	-	-	-	-
18	Ramp Street Station	1871								
19	Land	to 1915	51,452.95	51,452.95	500.34	500.76	475.54	-	27.56	523.08
20	Plymouth Street Station	1881								
21	Land	to 1915	173,925.25	173,925.25	1,375.00	3,796.34	585.72	5.17	165.79	3,175.45
22	Fence	to 1915	845.81	845.81	-	-	-	-	-	-
23	Buttrick Street Station	1880								
24	Land	to 1915	121,575.81	121,575.81	1,100.00	1,824.05	431.69	-	62.84	1,451.56
25	William Phipps Station	1871								
26	Land	to 1915	25,836.91	25,836.91	-	1,580.25	435.72	-	47.55	1,097.00
27	Twelfth Street Station	1884								
28	Land	to 1915	8,421.08	8,421.08	-	-	-	-	-	-
29	Gas Service Station	1884								
30	Land	to 1915	100,000.00	100,000.00	-	-	-	-	-	-
31	Clarkson Ave. Garage	1917								
32	Land	to 1918	9,274.10	9,274.10	-	-	-	-	-	-
33	Structure	to 1918	21,827.82	21,827.82	825.00	8,141.23	440.48	479.61	22.28	7,021.44
34			3,097,745.07	3,097,745.07	6,918.41	115,510.34	4,733.93	1,820.22	1,284.47	118,091.72

(11) \$40,000 reported previously as 1884, \$40,000 transferred from account for plant in service.

(12) Installation of engine foundation.

(13) The above items have been transferred to account for structure.

Supplement to Schedule 418 Page 412

Insert Sheet No. 412 a

418. Gas Plants - Manufactured Gas

Line	Designation of plant	Location of plant (including street and no.)	Rated 24-hour M. capacity M. capacity	Number of ovens or benches
	(a)	(b)	(c)	(d)
1	Coke oven gas plant:			
2	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N. Y.	24,000	8 batteries each containing 48 ovens, total 96 ovens.
3				
4				
5				
6				
7				
8				
9				
10				
11				Number of water gas sets
12	(f)	(g)	(h)	(i)
13	Water gas plants:			
14	Citizens Works	438 Hoyt Street, Brooklyn, N.Y.	36,000	10
15	Greenpoint Works	Maspeth and Varick Avenues, Brooklyn, N. Y.	40,000	6
16			<u>84,000</u>	<u>16</u>
17				
18				
19				
20				
21				
22				
23				
24				
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26				

419. Auxiliary Apparatus at Manufactured Gas Plants - Storage Holders

Line	Designation of Plant or Station (a)	Number of Units (b)	Maker or Builder (c)	Year Installed (d)	Capacity (e)
1	Fifth Street Station	1	The Bartlett Hayward Co.	1903	5,000,000
2	Twelfth Street Station	1	" " "	1908	5,000,000
3	Scholar Street Station	1	" " "	1894	1,499,000
4	Wylie Avenue Station	1	" " "	1908	5,000,000
5	" " "	1	" " "	1908	5,000,000
6	Belmont Avenue Station	1	" " "	1903	5,250,000
7	Maspeth Avenue Station	1	" " "	1927	15,000,000
8	Flatbush Station	1	" " "	1901	1,000,000
9	" " "	1	" " "	1909	5,000,000
10	" " "	1	" " "	1923	5,000,000
11	Newton Station	1	" " "	1913	10,000,000
12	" " "	1	" " "	1920	10,000,000
		<u>12</u>			<u>95,949,000</u>

419. Auxiliary Apparatus at Manufactured Gas Plants - Relief Holders

Line	Designation of Plant or Station (a)	Number of Units (b)	Maker or Builder (c)	Year Installed (d)	Capacity (e)
1	Relief Holders				
2	Citizens Works	1	The Bartlett Hayward Co.	1900	824,400
3	Greenpoint Works-C.G.	1	" " "	1927	1,000,000
4		<u>2</u>			<u>1,824,400</u>
5					
6					
7					
8					
9	Proctor Gas Holder				
10	Greenpoint Works-C.G.	1	Western Gas Construction Co.	1928	40,000
11					
12					
13					

419. Auxiliary Apparatus of Manufactured Gas Plants - Boosters, Compressors and Exhausters

Line No.	Designation of Plant or Station (a)	Number of Units (b)	Maker or Builder (c)	Year Installed (d)	Operating Capacity - C.F.	
					Each (e)	Total (f)
"	Citizens Works	1	Connersville Blower Co.	1908	518,000	518,000
"	"	1	"	1911	758,000	758,000
"	"	1	"	1918	518,000	518,000
"	"	1	"	1922	758,000	758,000
"	"	1	"	1928	800,000	800,000
"	"	1	"	1931	700,000	700,000
"	"	1	"	(1) 1932	820,000	820,000
"	Greenpoint Works-G.C.	3	General Electric Co.	1930	1,350,000	1,350,000
"	" " -G.C.	3	Connersville Blower Co.	1927	850,000	2,550,000
"	" " -G.C.	3	General Electric Co.	1928	714,000	2,142,000
"	Twelfth St. Station	3	"	1928	1,000,000	3,000,000
"	"	2	Connersville Blower Co.	1911	758,000	1,516,000
"	"	1	"	1921	780,000	780,000
"	Schools Street Station	1	"	1909	422,000	422,000
"	Wylie Avenue Station	3	"	1911	758,000	2,274,000
"	"	1	"	1923	758,000	758,000
"	"	1	"	1923	758,000	758,000
"	Belmont Avenue Station	2	"	1922	542,000	1,084,000
"	Flatbush Station	2	"	1925	699,400	1,398,800
"	Newton Station	1	"	"	"	"
"	"	2	1924	1,517,780	1,517,780	
"	"	2	Warhington Pump & Mach. Corp. 1925	820,000	1,640,000	
"	"	2	Roots-Connersville Blower Corp. 1927	400,000	800,000	
"	Maple Avenue Station	4	General Electric Co.	1927	820,000	3,280,000
"	"	1	Roots-Connersville Blower Corp. 1929	1,000,000	1,000,000	
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
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"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2	"	"	850,000	1,700,000
"	"	2				

419 - Auxiliary Apparatus of Manufactured Gas Plants - Producer Gas Sets

Line No.	Designation of Plant or Station (a)	No. of Units (b)	Maker or Builder (c)	Year Installed (d)	Operating Capacity	
					Each (e)	Total (f)
1	Greenpoint Works-G.C.	7	Keppens Construction Co.	1928	8,340,000	58,380,000
2	"	"	"	"	"	"
3	"	"	"	"	"	"
4	"	"	"	"	"	"
5	"	"	"	"	"	"
6	"	"	"	"	"	"
7	"	"	"	"	"	"
8	"	"	"	"	"	"
9	"	"	"	"	"	"
10	"	"	"	"	"	"
11	"	"	"	"	"	"
12	"	"	"	"	"	"
13	"	"	"	"	"	"
14	"	"	"	"	"	"
15	"	"	"	"	"	"
16	"	"	"	"	"	"
17	"	"	"	"	"	"
18	"	"	"	"	"	"
19	"	"	"	"	"	"
20	"	"	"	"	"	"
21	"	"	"	"	"	"
22	"	"	"	"	"	"
23	"	"	"	"	"	"
24	"	"	"	"	"	"
25	"	"	"	"	"	"
26	"	"	"	"	"	"
27	"	"	"	"	"	"
28	"	"	"	"	"	"
29	"	"	"	"	"	"
30	"	"	"	"	"	"
31	"	"	"	"	"	"
32	"	"	"	"	"	"
33	"	"	"	"	"	"
34	"	"	"	"	"	"
35	"	"	"	"	"	"
36	"	"	"	"	"	"
37	"	"	"	"	"	"
38	"	"	"	"	"	"
39	"	"	"	"	"	"
40	"	"	"	"	"	"
41	"	"	"	"	"	"
42	"	"	"	"	"	"
43	"	"	"	"	"	"
44	"	"	"	"	"	"
45	"	"	"	"	"	"
46	"	"	"	"	"	"
47	"	"	"	"	"	"
48	"	"	"	"	"	"
49	"	"	"	"	"	"
50	"	"	"	"	"	"
51	"	"	"	"	"	"
52	"	"	"	"	"	"
53	"	"	"	"	"	"
54	"	"	"	"	"	"
55	"	"	"	"	"	"
56	"	"	"	"	"	"
57	"	"	"	"	"	"
58	"	"	"	"	"	"
59	"	"	"	"	"	"
60	"	"	"	"	"	"
61	"	"	"	"	"	"
62	"	"	"	"	"	"
63	"	"	"	"	"	"
64	"	"	"	"	"	"
65	"	"	"	"	"	"
66	"	"	"	"	"	"
67	"	"	"	"	"	"
68	"	"	"	"	"	"
69	"	"	"	"	"	"
70	"	"	"	"	"	"
71	"	"	"	"	"	"
72	"	"	"	"	"	"
73	"	"	"	"	"	"
74	"	"	"	"	"	"
75	"	"	"	"	"	"
76	"	"	"	"	"	"
77	"	"	"	"	"	"
78	"	"	"	"	"	"
79	"	"	"	"	"	"
80	"	"	"	"	"	"
81	"	"	"	"	"	"
82	"	"	"	"	"	"
83	"	"	"	"	"	"
84	"	"	"	"	"	"
85	"	"	"	"	"	"
86	"	"	"	"	"	"
87	"	"	"	"	"	"
88	"	"	"	"	"	"
89	"	"	"	"	"	"
90	"	"	"	"	"	"
91	"	"	"	"	"	"
92	"	"	"	"	"	"
93	"	"	"	"	"	"
94	"	"	"	"	"	"
95	"	"	"	"	"	"
96	"	"	"	"	"	"
97	"	"	"	"	"	"
98	"	"	"	"	"	"
99	"	"	"	"	"	"
100	"	"	"	"	"	"

22. Various Costs Incurred and Can Be Estimated by Systems

1. Show the various items of expense incurred in the production of manufactured gas in each system selected, and specify whether included in Item 19 or 20, indicating with reference to schedule 22-4 of schedule 20 the applicable billing method of the gas.
2. Indicate which system has manufacturing plant only and which subject of accounting had facilities and service connected to city streets, showing in this column the date in each case.

No.	Description of system	Cleveland Works			Greenpoint Works			Total		
		Water Gas			Gas Produced			Manufactured Gas		
		1	2	3	4	5	6	7	8	9
1	Plantation Equipment and Engineering	22,000.00	22,000.00	22,000.00	122,782.24			206,782.24		
2	Water and Other Power Labor	22,244.38	22,244.38					44,488.76		
3	Water Labor									
4	Water Gas Plant Labor						122,714.24	122,714.24		
5	Water Gas Plant Labor						47,877.56	47,877.56		
6	Water Gas Plant Labor						122,592.10	122,592.10		
7	Coal Gas and Producer Gas Labor									
8	Water Gas Generating Labor	24,800.00	24,800.00					49,600.00		
9	Producer Gas Generating Labor									
10	Water Gas Generating Labor									
11	Water Gas Generating Labor									
12	Water Gas Generating Labor									
13	Water Gas Generating Labor									
14	Water Gas Generating Labor									
15	Water Gas Generating Labor									
16	Water Gas Generating Labor									
17	Water Gas Generating Labor									
18	Water Gas Generating Labor									
19	Water Gas Generating Labor									
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100	Water Gas Generating Labor									

III. STATION RECORD AND QUALITY OF OUTPUT - GAS

Continuing the same station arrangement as in schedule I-1, show the required information regarding production of gas in each station. All companies should give information requested, from 10 to 24, inclusive.

No.	Description of station	Williams Works		Greensburg Works		Total
		1914-15, Gas	1915-16, Gas	1916-17, Gas	1917-18, Gas	
1	Gas sold: Steamship contracted (short tons)			771,077.28		771,077.28
2	Total gas per 100 short tons (B.t.)			5.88		5.88
3	Average number meters or scales in station			90		90
4	Average charge per meter or scale (B.t.)			28,100		28,100
5	Average profit of refractionation (B.t.)			14.06		14.06
6	Average made per meter or scale per day (B.t.)			266,283		266,283
7	Calor. Heat unit produced			590,561.00		590,561.00
8	Calor. Heat unit short ton of coal made (B. T. U. 10,000)			75.10		75.10
9	Calor. Heat unit: Gallons produced			6,972,080		6,972,080
10	Calor. Heat unit: Gallons per short ton of coal made (B. T. U. 10,000)			9.90		9.90
11	Total fuel under contract: Calor. (short tons)			-		-
12	Fuel (short tons): Steamship contracted: Producers gas or petroleum gas - B. T. U. 10,000			14,947,425		14,947,425
13	Total fuel used in producing producer gas (short tons)			103,864.00		103,864.00
14	Producers gas produced - B. T. U. 10,000			13,173,945		13,173,945
15	Heating value of producer gas produced - B. T. U.			127		127
16	Ratio fuel: Average number boilers	3	4	9		16
17	Total fuel (short tons)	5,596.91	13,777.03			19,373.94
18	Fuel in oil used (gals.)	3,863,133	2,629,160			6,492,293
19	Oil fuel (solid or liquid) per B. T. U. 10,000	7.02	7.37			7.20
20	Consumption: Average number in use	3	2			5
21	Total surface feet of grate surface	324.4	122.4			446.8
22	Make (short) ton per sq. ft. of grate surface (B. T. U. 10,000)	3,868	4,863			4,777
23	Consumption: Fuel per B. T. U. 10,000 (B.t.)	22.61	14.31			18.47
24	Gas sold: Gallons used for manufacturing low pressure gas	20,588,785	5,162,160			25,750,945
25	Water gas (as sold) in B. T. U. 10,000 of gas of	31.20	-			-
26	Gallons per B. T. U. 10,000	3.92	.71			2.28
27	Average cost per gallon, water and low-pressure	2.99	4.24			3.58
28	Gas produced, dry, cubic	154,500	21,900	146,400		321,800
29	Gas in 100 B. T. U. 10,000	49,325	338,042	60,222		80,222
30	Gas in 100 B. T. U. 10,000					60,222
31	Gas in 100 B. T. U. 10,000					72,459
32	Gas in 100 B. T. U. 10,000					-
33	Heating value of gas, B. T. U. minimum dry	549	541	554		-
34	Minimum dry	541	475	551		-
35	Average low price	549	512	549		-
36	Specific gravity (in vacuum barometer at 4 per cent)	.87	.81	.80		-

For notes see insert sheet 514 a

Notes on Schedule 313. Station Records and Quality of Output - Gas

Line 20

- (1) The equivalent solid boiler fuel is calculated on the ratio of evaporation of solid to liquid-fired boilers. These figures for the year 1959 were as follows:

	Pounds per M Equivalent			
	Liquid boiler fuel	Solid boiler fuel	solid boiler fuel	Ratio
	(a)	(b)	(c)	(d)
<u>Works</u>				
Citizens	5.45	1.58	10.50	1.80
Greenpoint	2.88	4.69	8.99	1.84
Average	4.17	3.03	9.53	1.53

$$(a \times d - b \times c)$$

Notes: The weight of a gallon of tar averages 10 pounds.

Line 22

- (2) Grate surface of one generator multiplied by average number of generators in use.

Line 23

- (3) The basis of the figures on this line is as follows:

	Gas made	Total hours	Average make per running hour	Grate area per machine	Hourly make per sq. ft. of grate area
<u>Works</u>	(cu. ft.)	(running)	(cu. ft.)	(sq. ft.)	(cu. ft.)
Citizens	7,595,941	59,551	329,435	48	3,468
Greenpoint	7,838,593	15,534	466,645	48	8,663
Totals	<u>15,434,534</u>	<u>75,085</u>			
Averages			304,840	48	4,777

Line 24

- (4) It is not feasible to report this figure for the Greenpoint Works for the reason that this plant used both gas oil and refinery gas for enrichment purposes, both of which enrichment agents produce tar.

[illegible]

1. These findings are contrary to the policy and evidence, and will be strongly opposed by the government and the international community.

1. There are no restrictions on use on 100% wool.

Line item	Gas produced and purchased, M cu ft.			Kind of gas	Gas sold or otherwise disposed of, M cu ft.		
	Produced	Purchased	Total		Sold	Other	Total
1 Gas used in heating of year	14,854,443	8,816,713	23,671,156	Sold to associated companies			
2 Produced during year				Other sales			23,671,156
3 Purchased from associated companies				Transferred to associated companies			
4 Purchased from other than associated cos.				Delivered under supply agreements			
5 Purchased under supply agreements				Supplied without direct charge			
6 Transferred from associated companies				Used by respondent			23,671,156
7 Total available for distribution			23,671,156	Lost and unaccounted for			23,671,156
8 Maximum daily output in M cu ft.			8,816,713	On hand at end of year			23,671,156
9 Date and hour of its occurrence	Nov. 23, 1938	11 A.M.	12 Noon	Unexpended for gas per unit of production			23,671,156
10 Maximum daily output, M cu ft.	90,051	84,190	75,786	Jan.	88,003	84,880	85,950
				Feb.	88,349	79,483	85,945
				Mar.			85,945

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[illegible]

1. Indicate whether the statement is true or false. If true, write "true"; if false, write "false".

Name of municipality	Number of meters	Electricity		Gas		Water		Sewer	
		Value to 10 cu. ft.	Revenue	Value to 10 cu. ft.	Revenue	Value to 10 cu. ft.	Revenue	Value to 10 cu. ft.	Revenue
Brooklyn	814,058	10,834,945	20,994,360.98	4,837,000	3,031,440.21	71,994	44,401.21	14,933,979	10,000,000.00
Deductions from gas bills:			1,000.00		31.00		-		1,000.00
			10,834,360.98		3,031,409.21		44,401.21		10,000,000.00
Queens	239,897	3,597,163	6,994,043.31	1,000,000	1,000,000.00	34,345	34,345.19	9,000,000	7,994,000.00
Deductions from gas bills:			300.00		300.00		-		300.00
			3,597,163.31		1,000,000.00		34,345.19		7,994,000.00
Unbilled gas sales adjustment								34,345	34,345.19
* Represents allowances to customers in settlement of gas bills									
Total	1,053,955	14,432,108	27,988,404.31	5,837,000	4,031,409.21	106,339	78,746.40	23,933,979	17,994,000.00

Oil, Gas Residuals

Item (a)	Dolls. Tons (b)	Crude Oil Tar Gals. (c)	Water Gas Tar Gals. (d)	Ammoniacal Liquor-Gals. (e)	Carbon Lbs. (f)	Drip Oil Gals. (g)	Sulphate of Ammonia Net Tons (h)		Naphthalene Pounds (i)
On hand at beginning of year	82,293.71	75,000	444,967			76,600	170.67		-
Made during year	(1) 592,241.42	6,972,680	10,143,714			662,764	2,312.24		442,303
Used during year	230,123.00	-	2,137,028			-	-		-
Sold during year	333,489.91	4,744,080	4,336,819			648,901	2,332.12		442,303
On hand at end of year	62,800.22	281,000	1,000,834			96,363	434.52		-
Credits on account of residuals produced	\$2,641,379.20	\$300,287.42	\$307,197.44			\$23,544.18	\$229,004.04		\$4,429.89
Residuals expense	81,112.44	-	11,760.29			-	181,743.01		-
Receipts from sales	1,324,583.49	299,879.20	194,721.63			45,429.21	222,343.10		4,429.89
Average selling price	3.6771	.0642	.0434			.0773	24.5654		.0100

(1) Includes 1,480.42 B.T. purchased \$3,790.72

B24:12a Important Units of Plant & Equipment Installed During the Year - 1939

Location and description (a)	Book Cost (b)
<u>Citizens Works:</u>	
Install Salt Water Condenser with foundation, piping, valves, controls & gauges	<u>64,860.89</u>
<u>Steampoint Works:</u>	
Purchase & install rock wool insulation on the twelve (12) Coke Oven Purifier Box Covers	9,874.77
Interconnect water gas and coke oven gas purifiers	<u>6,746.18</u>
Replace corrugated iron sheeting with Transite sheeting at the Metallurgical & Domestic Screening Stations and certain portions of Coal & Coke Conveyors	<u>10,011.80</u> <u>26,632.75</u>
<u>Maspath Avenue Station:</u>	
Install Commerceville Compressor with 1000 HP motor, foundation, ducts, switchboards, gauge boards, valves, piping and wiring	<u>77,800.88</u>
<u>Metropolitan Office</u>	
Changes to building to accommodate the Medical Office and Employment Bureau	<u>2,322.59</u>
Grand Total	<u>176,123.45</u>

504(b) Important Units of Plant and Equipment Retired During the Year - 1959

Line	Location and Description (a)	Book Cost (b)
1	<u>Stamper Works</u>	
2	4 - Tar Extruders with associated equipment	27,800.22
3	Driv. Oil Tank #7 with associated equipment	(102) 4,027.87
4		(102) 1,477.33
5	Heating System for 5th St. Boiler	4,445.90
6	Tank & Hot Wall at Refractor House	85.80
7		<u>36,731.92</u>
8	<u>Fifth Street Station</u>	
9	Boiler Heating System	4,327.83
10		<u>4,327.83</u>
11	<u>Reboiler Street Station</u>	
12	1 - 30" High Governor	(101) 8,377.98
13		(102) 1.50
14		<u>8,379.48</u>
15	<u>Reboiler Station</u>	
16	2 - Commercial Extruders (Spares)	2,484.95
17	4 - Circulating Pumps, 2 High Governors with associated equipment	4,152.33
18		<u>7,122.24</u>
19	<u>Greenpoint Works</u>	
20	1 - Immersion Sulphate Conveyor	
21	1 - Drive Table	
22	2 - Centrifugal Pumps	
23	2 - Extruder Spacers and associated equipment	40,234.13
24	Sheeting and Rods for various conveyors	11,440.00
25	2 - Insult sheet wires	22,214.40
26		<u>73,888.53</u>
27	<u>Weymouth Avenue Station</u>	
28	2 - 40" Valves	3,436.00
29		<u>3,436.00</u>
30	Grand Total	<u>155,881.95</u>