MORETRENCH

DATE: 2/12/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cold, Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI 1
Grout Mix:	Water	380	lit		GS (EL)	188.18
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.18	EL
Bottom of ISS:	148.68	EL
Nozzle:	141.28	EL
TOR:	141.28	EL
Time Start:	12:53	
Time Finish:	13:39	
Drilling Duration:	0:46	h:mm
Grouting Parameters:		
Bottom of JGC:	141.28	EL
6 in/min Pull Rate to:	149.68	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	149.68	EL
Time Start:	13:39	
Time Finish:	14:01	
Grouting Duration:	0:22	h:mm
Summary:		
Constructed JG Height:	8.40	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-2
10 ft	
20 ft	
30 ft	
40 ft	39.5' Till (1:28 PM)
	46.9' TOR (1:34 PM)
50 ft	48.42' Final Depth (1:39 PM)
60 ft	

Notes:

ISS Auger Column 8-A-2 Bot El. 151.28

MTA ISS Bot El. 148.68

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 3/19/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	WARM, CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	XI-IR
GS (EL)	188.77
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	169.18	EL
Depth to Bottom:	167.68	EL
Time Start:	8:09	
Time Finish:	8:14	
Drilling Duration:	0:05	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	169.18	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.28	EL
Depth to Top of JGC:	186.28	EL
Time Start:	8:20	
Time Finish:	8:39	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	17.10	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	
	ALL ISS
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

THE COL WAS JETTED TO REPLACE LOW STRENGTH ISS

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 2/5/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Dry & Overcast
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-2
Grout Mix:	Water	380	lit		GS (EL)	187.25
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	140.24	EL
TOR:	140.25	EL
Time Start:	9:12	
Time Finish:	9:36	
Drilling Duration:	0:24	h:mm
Grouting Parameters:		
Bottom of JGC:	140.25	EL
6 in/min Pull Rate to:	144.25	EL
8 in/min Pull Rate to:	162.25	EL
12 in/min Pull Rate to:	184.25	EL
Top of JGC:	184.25	EL
Time Start:	9:36	
Time Finish:	10:42	
Grouting Duration:	1:06	h:mm
Summary:		
Constructed JG Height:	44.00	ft

Depth	Notes
0 ft	0' Cementitious Material
	9.5' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
	47' TOR (9:32 AM)
	48.51' Final Depth (9:36 AM)
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins / Jeff Ayres

MORETRENCH

DATE: 2/5/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-3
Grout Mix:	Water	380	lit		GS (EL)	187.49
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	187.49	EL
Bottom of ISS:	151.49	EL
Nozzle:	143.91	EL
TOR:	143.99	EL
Time Start:	11:55	
Time Finish:	12:25	
Drilling Duration:	0:30	h:mm

Grouting Parameters:		
Bottom of JGC:	143.99	EL
6 in/min Pull Rate to:	147.99	EL
8 in/min Pull Rate to:	152.65	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	152.65	EL
Time Start:	12:25	
Time Finish:	12:45	
Grouting Duration:	0:20	h:mm

Summary:		
Constructed JG Height:	8.66	ft

Depth	Notes
0 ft	Auger Column 8-A-3
10 ft	
20 ft	
30 ft	
	36' Sand/Soil
40 ft	39.5' Till
	43.5' TOR (12:21 PM)
	45.08 Final Depth (12:25 PM)
50 ft	
60 ft	

Notes:

ISS Auger Column 8-A-3 Bot El. 150.75

MTA ISS Bot El. 151.49

Technican Signature: Steve Hawkins / Jeff Ayres

MORETRENCH

DATE: 3/19/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	WARM, CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-3R
GS (EL)	187.92
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	170.47	EL
Depth to Bottom:	168.97	EL
Time Start:	11:38	
Time Finish:	11:46	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	170.47	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.61	EL
Depth to Top of JGC:	185.61	EL
Time Start:	11:46	
Time Finish:	12:02	
Grouting Duration:	0:16	h:mm

Summary:

Constructed JG Height:	15.14	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

THESE COLUMS WERE JETTED TO REMOVE LOW STRENGTH ISS

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 2/5/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-4
Grout Mix:	Water	380	lit		GS (EL)	186.06
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	143.51	EL
TOR:	143.56	EL
Time Start:	13:01	
Time Finish:	13:33	
Drilling Duration:	0:32	h:mm
Grouting Parameters:		
Bottom of JGC:	143.56	EL
6 in/min Pull Rate to:	148.86	EL
8 in/min Pull Rate to:	160.83	EL
12 in/min Pull Rate to:	182.06	EL
Top of JGC:	182.06	EL
Time Start:	13:33	
Time Finish:	16:44	
Grouting Duration:	0:58	h:mm
Summary:		
Constructed JG Height:	38.50	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	37.5' Till (1:21 PM)
40 ft	
	42.5' TOR (1:27 PM)
	44.05' Final Depth (1:33 PM0
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/5/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cold & Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-5
Grout Mix:	Water	380	lit		GS (EL)	188.41
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	144.50	EL
TOR:	145.14	EL
Time Start:	18:02	
Time Finish:	18:32	
Drilling Duration:	0:30	h:mm

Grouting Parameters:		
Bottom of JGC:	144.50	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.38	EL
12 in/min Pull Rate to:	184.41	EL
Top of JGC:	184.41	EL
Time Start:	18:32	
Time Finish:	19:30	
Grouting Duration:	0:58	h:mm

Summary:		
Constructed JG Height:	39.91	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	
	43.27' TOR (6:22 PM)
	45.41' Final Depth (6:32 PM)
50 ft	
60 ft	

Notes:

Anticipated Bedrock El. 144.5

MTA Bedrock El. 145.14

Drilled deeper to meet anticipated

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/11/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-6
Grout Mix:	Water	380	lit		GS (EL)	188.13
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	146.76	EL
TOR:	146.78	EL
Time Start:	20:02	
Time Finish:	20:47	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	146.78	EL
6 in/min Pull Rate to:	151.71	EL
8 in/min Pull Rate to:	163.13	EL
12 in/min Pull Rate to:	184.91	EL
Top of JGC:	184.91	EL
Time Start:	20:48	
Time Finish:	21:45	
Grouting Duration:	0:57	h:mm

Summary:

Constructed JG Height:	38.13	ft

Depth	Notes
0 ft	0' Cementitious Material
	3.00' Sand/Soil
10 ft	
20 ft	
	28.55' Hard Layer
30 ft	
	36.73' Till
40 ft	41.35' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/12/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-7
Grout Mix:	Water	380	lit		GS (EL)	188.02
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.02	EL
Bottom of ISS:	154.19	EL
Nozzle:	147.53	EL
TOR:	147.74	EL
Time Start:	16:27	
Time Finish:	16:59	
Drilling Duration:	0:32	h:mm

Grouting Parameters:		
Bottom of JGC:	147.74	EL
6 in/min Pull Rate to:	156.03	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	156.03	EL
Time Start:	17:05	
Time Finish:	17:23	
Grouting Duration:	0:18	h:mm

Summary:		
Constructed JG Height:	8.29	ft

Depth	Notes
0 ft	ISS Auger Column 8' Test 1
10 ft	
20 ft	
30 ft	33.83' Till (4:44pm)
40 ft	40.28' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8' Test 1, Bot EL 155.47

MTA Bot EL 154.19

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/19/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	WARM, CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-7R
GS (EL)	188.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	156.12	EL
Depth to Bottom:	154.62	EL
Time Start:	1:20	
Time Finish:	1:26	
Drilling Duration:	0:06	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	156.12	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.09	EL
Depth to Top of JGC:	185.09	EL
Time Start:	1:27	
Time Finish:	2:05	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	28.97	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

THESE COLUMNS WERE JETTED TO REMOVE LOW STRENGTH ISS

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 2/12/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear,Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-8
Grout Mix:	Water	380	lit		GS (EL)	188.61
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.61	EL
Bottom of ISS:	155.15	EL
Nozzle:	149.11	EL
TOR:	149.31	EL
Time Start:	17:37	
Time Finish:	18:04	
Drilling Duration:	0:27	h:mm
Grouting Parameters:		
Bottom of JGC:	149.31	EL
6 in/min Pull Rate to:	156.61	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	156.61	EL
Time Start:	18:10	
Time Finish:	18:26	
Grouting Duration:	0:16	h:mm
Summary:		
Constructed JG Height:	7.30	ft

Depth	Notes
0 ft	0' Cementitious Material with very small layers of soft sand/soil
10 ft	
20 ft	
30 ft	33.46' Sand/Soil (5:56pm)
40 ft	39.30' TOR
50 ft	
60 ft	

Notes:

Hole location was on the edge of two surrounding ISS Auger columns

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/12/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-9
Grout Mix:	Water	380	lit		GS (EL)	188.27
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.27	EL
Bottom of ISS:	155.77	EL
Nozzle:	150.11	EL
TOR:	150.12	EL
Time Start:	19:30	
Time Finish:	19:52	
Drilling Duration:	0:22	h:mm

Grouting Parameters:		
Bottom of JGC:	150.12	EL
6 in/min Pull Rate to:	157.30	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	157.30	EL
Time Start:	19:54	
Time Finish:	20:09	
Grouting Duration:	0:15	h:mm

Summary:		
Constructed JG Height:	7.18	ft

Depth	Notes
0 ft	ISS Auger Column 8' Test 2
10 ft	
20 ft	
30 ft	32.50' Till (7:45pm)
40 ft	38.15' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8' Test 2, Bot EL 156.65

MTA Bot EL 155.77

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/22/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 RAIN
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-9R
GS (EL)	188.02
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	176.96	EL
Depth of Nozzle:	176.96	EL
Depth to Bottom:	175.46	EL
Time Start:	9:26	
Time Finish:	9:30	
Drilling Duration:	0:04	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	176.96	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.28	EL
Depth to Top of JGC:	186.28	EL
Time Start:	9:30	
Time Finish:	9:41	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	9.32	ft
Number of Overlaps:	5	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

THIS COLUMN WAS JETTED IN WEAK ISS TO REPLACE IF POSSIBLE

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI 10
Grout Mix:	Water	380	lit		GS (EL)	187.91
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.45			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	187.91	EL
Bottom of ISS:	154.91	EL
Nozzle:	153.44	EL
TOR:	153.44	EL
Time Start:	9:15	
Time Finish:	10:19	
Drilling Duration:	0:51	h:mm

Grouting Parameters:		
Bottom of JGC:	153.44	EL
6 in/min Pull Rate to:	157.69	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	157.69	EL
Time Start:	10:22	
Time Finish:	10:34	
Grouting Duration:	0:12	h:mm

Summary:		
Constructed JG Height:	4.25	ft

Depth	Notes
0 ft	0' ISS Auger Column 8-Test-2
10 ft	
20 ft	
30 ft	
	33' Sand/Soil (10:09 AM)
	34.47' TOR (10:11 AM)
40 ft	36.44' Final Depth (10:19 AM)
50 ft	
60 ft	

Notes:

ISS Auger Column 8-Test-2 Bot El. 156.65

MTA ISS Bot El. 154.91

Drilled deeper to meet anticipated

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI - 11
Grout Mix:	Water	380	lit		GS (EL)	188.09
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.45			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.09	EL
Bottom of ISS:	159.59	EL
Nozzle:	155.89	EL
TOR:	155.89	EL
Time Start:	12:11	
Time Finish:	12:50	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	155.89	EL
6 in/min Pull Rate to:	161.78	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	161.78	EL
Time Start:	12:52	
Time Finish:	13:04	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	5.89	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-5
10 ft	
20 ft	
	28.5' Sand/Soil (12:41 PM)
30 ft	30.7' Till (12:44 PM)
	32.2' TOR (12:46 PM)
	33.75' Final Depth (12:50 PM)
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-A-5 Bot El 160.62

MTA ISS Bot El. 159.59

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	Element Type:	Col		Nozzle Dia: 6mm	Element ID No.	XI 12
Grout Mix:	Water	380	lit		GS (EL)	187.99
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.45			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.99	EL
Bottom of ISS:	160.60	EL
Nozzle:	157.98	EL
TOR:	157.98	EL
Time Start:	14:10	
Time Finish:	14:40	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	157.98	EL
6 in/min Pull Rate to:	161.71	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	161.71	EL
Time Start:	14:40	
Time Finish:	14:49	
Grouting Duration:	0:09	h:mm

Summary:

Constructed JG Height:	3.73	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-5
10 ft	
20 ft	
	27.39' Sand/Soil (2:30 PM)
	27.74' Till (2:31 PM)
30 ft	30.01' TOR (2:34 PM)
	31.55' Final Depth (2:40 PM)
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-A-5 Bot El. 160.62

MTA ISS Auger Column 160.60

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 3/22/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 RAIN
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-12R
GS (EL)	187.93
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	177.92	EL
Depth of Nozzle:	177.92	EL
Depth to Bottom:	176.42	EL
Time Start:	11:34	
Time Finish:	11:40	
Drilling Duration:	0:06	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	177.92	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.36	EL
Depth to Top of JGC:	186.36	EL
Time Start:	11:40	
Time Finish:	11:50	
Grouting Duration:	0:10	h:mm

Summary:

Constructed JG Height:	8.44	ft
Number of Overlaps:	6	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

THIS COLUMN WAS JETTED TO REMOVE LOOSE ISS IF POSSIBLE

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-13
Grout Mix:	Water	380	lit		GS (EL)	188.01
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.01	EL
Bottom of ISS:	159.90	EL
Nozzle:	159.90	EL
TOR:	159.90	EL
Time Start:	15:29	
Time Finish:	15:48	
Drilling Duration:	0:19	h:mm

Grouting Parameters:		
Bottom of JGC:	159.90	EL
6 in/min Pull Rate to:	165.01	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.01	EL
Time Start:	15:50	
Time Finish:	16:00	
Grouting Duration:	0:10	h:mm

Summary:		
Constructed JG Height:	5.11	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-6
	Soft Layer to about 17'
10 ft	
	17.00' Cementitious Material
20 ft	
30 ft	28.11' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-A-6, Bot EL 163.52

MTA did not ever noticeably break thru ISS Auger Column

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/22 & 23/2010
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	52 RAIN
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	XI-13R2
GS (EL)	188.2
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	177.50	EL
Depth to Bottom:	176.00	EL
Time Start:	10:09	
Time Finish:	10:13	
Drilling Duration:	0:04	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	177.50	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.21	EL
Depth to Top of JGC:	186.40	EL
Time Start:	10:14	
Time Finish:	10:23	
Grouting Duration:	0:09	h:mm

Summary:

Constructed JG Height:	8.90	ft
Number of Overlaps:	6	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: John Stanbury

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-14
Grout Mix:	Water	380	lit		GS (EL)	188.15
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.15	EL
Bottom of ISS:	164.15	EL
Nozzle:	162.82	EL
TOR:	162.86	EL
Time Start:	16:14	
Time Finish:	16:29	
Drilling Duration:	0:15	h:mm

Grouting Parameters:		
Bottom of JGC:	162.86	EL
6 in/min Pull Rate to:	165.67	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.67	EL
Time Start:	16:30	
Time Finish:	16:36	
Grouting Duration:	0:06	h:mm

Summary:		
Constructed JG Height:	2.81	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-6
	Soft Spot
10 ft	
20 ft	
	24.00' Till (4:24pm)
	25.29' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-A-6, Bot EL 163.52

MTA Bot EL 164.15

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/22/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 RAIN
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-14R
GS (EL)	186.67
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	171.12	EL
Depth of Nozzle:	171.12	EL
Depth to Bottom:	169.62	EL
Time Start:	1:38	
Time Finish:	1:48	
Drilling Duration:	0:10	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	171.12	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	184.21	EL
Depth to Top of JGC:	184.21	EL
Time Start:	1:48	
Time Finish:	2:06	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	13.09	ft
Number of Overlaps:	6	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-15
Grout Mix:	Water	380	lit		GS (EL)	188.38
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.38	EL
Bottom of ISS:	167.02	EL
Nozzle:	164.04	EL
TOR:	164.08	EL
Time Start:	16:48	
Time Finish:	17:06	
Drilling Duration:	0:18	h:mm

Grouting Parameters:		
Bottom of JGC:	164.08	EL
6 in/min Pull Rate to:	168.40	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	168.40	EL
Time Start:	17:07	
Time Finish:	17:17	
Grouting Duration:	0:10	h:mm

Summary:		
Constructed JG Height:	4.32	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-7
	Soft
10 ft	
	16.00' Cementitious
20 ft	21.36' Sand/Soil (4:55pm)
	24.30' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-A-7, Bot EL 165.67

MTA Bot EL 167.02

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/23/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	53 RAIN
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-15R
GS (EL)	186.96
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	166.39	EL
Depth to Bottom:	164.89	EL
Time Start:	8:20	
Time Finish:	8:33	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	166.39	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	178.46	EL
Depth to Top of JGC:	178.46	EL
Time Start:	8:33	
Time Finish:	8:52	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	12.07	ft
Number of Overlaps:	5	

Depth	Notes
0 ft	
10 ft	Penetration rate @ 12' has slowed dramatically
	Pushed through 12' and advanced @ 116"/min to 17'
20 ft	Will drill down to better material/resistance
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

8:36am - Stopped pump due to filter being clogged

Parsons to do mud balnace test on sample that was taken at 18'

Technican Signature: John Stanbury

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-16
Grout Mix:	Water	380	lit		GS (EL)	188.37
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.37	EL
Bottom of ISS:	167.28	EL
Nozzle:	167.27	EL
TOR:	167.28	EL
Time Start:	17:26	
Time Finish:	17:44	
Drilling Duration:	0:18	h:mm

Grouting Parameters:		
Bottom of JGC:	167.28	EL
6 in/min Pull Rate to:	170.36	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	170.36	EL
Time Start:	17:47	
Time Finish:	17:53	
Grouting Duration:	0:06	h:mm

Summary:

Constructed JG Height:	3.08	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-8
10 ft	
20 ft	21.09' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-A-8, Bot EL 169.41

MTA Bot EL 167.28

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/17/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-17
Grout Mix:	Water	380	lit		GS (EL)	187.83
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	187.83	EL
Bottom of ISS:	171.03	EL
Nozzle:	168.34	EL
TOR:	168.38	EL
Time Start:	16:24	
Time Finish:	16:33	
Drilling Duration:	0:09	h:mm

Grouting Parameters:		
Bottom of JGC:	168.38	EL
6 in/min Pull Rate to:	171.27	EL
8 in/min Pull Rate to:	172.64	EL
12 in/min Pull Rate to:	178.38	EL
Top of JGC:	178.38	EL
Time Start:	16:34	
Time Finish:	16:49	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height: 10.00 ft

Depth	Notes
0 ft	ISS Auger Column 8-A-8
10 ft	
	16.80' Sand/Soil (4:29pm)
20 ft	19.45' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-A-8, Bot EL 169.41

MTA Bot EL 171.03

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/23/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	52 RAIN
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.49		

Element ID No.	XI-17R
GS (EL)	187.14
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	170.77	EL
Depth to Bottom:	169.27	EL
Time Start:	11:32	
Time Finish:	11:42	
Drilling Duration:	0:10	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	170.77	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.40	EL
Depth to Top of JGC:	185.40	EL
Time Start:	11:43	
Time Finish:	12:01	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	14.63	ft
Number of Overlaps:	6	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: John Stanbury

MORETRENCH

DATE: 2/17/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-18
Grout Mix:	Water	380	lit		GS (EL)	187.89
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	187.89	EL
Bottom of ISS:	169.46	EL
Nozzle:	167.98	EL
TOR:	169.46	EL
Time Start:	16:57	
Time Finish:	17:11	
Drilling Duration:	0:14	h:mm

Grouting Parameters:		
Bottom of JGC:	169.46	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	170.70	EL
12 in/min Pull Rate to:	171.98	EL
Top of JGC:	171.98	EL
Time Start:	17:12	
Time Finish:	17:18	
Grouting Duration:	0:06	h:mm

Summary:		
Constructed JG Height:	2.52	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-9
10 ft	
20 ft	18.43' TOR (5:04pm)
	19.91' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-A-9, Bot EL 170.58

MTA Bot EL 169.46

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/17/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-19
Grout Mix:	Water	380	lit		GS (EL)	188.04
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	168.54	EL
TOR:	169.15	EL
Time Start:	19:35	
Time Finish:	19:50	
Drilling Duration:	0:15	h:mm
Grouting Parameters:		
Bottom of JGC:	169.15	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	172.04	EL
12 in/min Pull Rate to:	184.86	EL
Top of JGC:	184.86	EL
Time Start:	20:13	
Time Finish:	20:42	
Grouting Duration:	0:29	h:mm
Summary:		
Constructed JG Height:	15.71	ft

Depth	Notes
0 ft	0' Cementitious Material
	6.00' Obstruction
	7.00' Sand/Soil
10 ft	
20 ft	18.89' TOR
	21.00' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Pre-cut grout: 7:52 - 8:01

Re-drill: 8:09 - 8:12

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/19/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear,Cool,Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-20
Grout Mix:	Water	380	lit		GS (EL)	187.64
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	169.09	EL
TOR:	170.32	EL
Time Start:	17:14	
Time Finish:	17:27	
Drilling Duration:	0:13	h:mm

Grouting Parameters:		
Bottom of JGC:	170.32	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	171.64	EL
12 in/min Pull Rate to:	184.42	EL
Top of JGC:	184.42	EL
Time Start:	17:44	
Time Finish:	18:00	
Grouting Duration:	0:16	h:mm

Summary:		
Constructed JG Height:	14.10	ft

Depth	Notes
0 ft	0' Cementitious Material
	8.00' Sand/Soil
10 ft	
	17.32' TOR
20 ft	18.55' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Pre-cut grout: 5:29 - 5:36

Re-drill: 5:39 - 5:41

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/18/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	CLEAR, WARM
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-21
GS (EL)	187.37
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	172.37	EL
Nozzle:	169.10	EL
TOR:	169.12	EL
Time Start:	8:58	
Time Finish:	9:25	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	169.10	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	175.49	EL
Depth to Top of JGC:	175.49	EL
Time Start:	9:25	
Time Finish:	10:22	
Grouting Duration:	0:57	h:mm

Summary:

Constructed JG Height:	6.39	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

THE NOZZLE PLUGGED WHILE JETTING, (SAFETY RESET AND THE NOZZLE CLEANED)

Technican Signature: Steve Hawkins

6 TO

MORETRENCH

DATE: 3/18/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-22
GS (EL)	187.25
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	170.75	EL
Nozzle:	175.75	EL
TOR:	170.75	EL
Time Start:	10:35	
Time Finish:	10:53	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	175.75	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	182.85	EL
Depth to Top of JGC:	182.85	EL
Time Start:	10:55	
Time Finish:	11:01	
Grouting Duration:	0:06	h:mm

Summary:

Constructed JG Height:	7.10	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

ALL ISS

JETTED THE SOFT ZONE (11.5 TO 4.5 FEET AS DIRECTED BY WRS COMPASS)

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/18/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	WARM, CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	XI-23
GS (EL)	187.22
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	174.22	EL
Nozzle:	171.41	EL
TOR:	171.42	EL
Time Start:	12:00	
Time Finish:	12:18	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	171.41	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	177.28	EL
Depth to Top of JGC:	177.28	EL
Time Start:	12:18	
Time Finish:	12:25	
Grouting Duration:	0:07	h:mm

Summary:

Constructed JG Height:	5.87	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/2/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-24
Grout Mix:	Water	380	lit		GS (EL)	187.16
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	187.16	EL
Bottom of ISS:	176.66	EL
Nozzle:	169.88	EL
TOR:	169.91	EL
Time Start:	18:45	
Time Finish:	19:03	
Drilling Duration:	0:18	h:mm

Grouting Parameters:		
Bottom of JGC:	169.91	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	178.73	EL
Top of JGC:	178.73	EL
Time Start:	19:04	
Time Finish:	19:14	
Grouting Duration:	0:10	h:mm

Summary:		
Constructed JG Height:	8.82	ft

Depth	Notes
0 ft	Excavator ISS Cell P1
10 ft	10.50' Sand/Soil (6:54pm)
	17.25' TOR
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/2/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Overcast
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XI-25
Grout Mix:	Water	380	lit		GS (EL)	186.97
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	186.97	EL
Bottom of ISS:	176.97	EL
Nozzle:	170.83	EL
TOR:	170.87	EL
Time Start:	17:15	
Time Finish:	17:33	
Drilling Duration:	0:18	h:mm

Grouting Parameters:		
Bottom of JGC:	170.87	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	179.01	EL
Top of JGC:	179.01	EL
Time Start:	17:35	
Time Finish:	17:45	
Grouting Duration:	0:10	h:mm

Summary:		
Constructed JG Height:	8.14	ft

Depth	Notes
0 ft	Excavator ISS Cell P1
10 ft	10.00' Sand/Soil (5:24pm)
	16.10' TOR
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/28/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Snow, Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-1
Grout Mix:	Water	380	lit		GS (EL)	188.42
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	141.08	EL
TOR:	141.09	EL
Time Start:	11:37	
Time Finish:	11:51	
Drilling Duration:	0:14	h:mm
Grouting Parameters:		
Bottom of JGC:	141.09	EL
6 in/min Pull Rate to:	147.97	EL
8 in/min Pull Rate to:	163.26	EL
12 in/min Pull Rate to:	185.43	EL
Top of JGC:	185.43	EL
Time Start:	19:49	
Time Finish:	20:49	
Grouting Duration:	1:00	h:mm
Summary:		
Constructed JG Height:	44.34	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	
	47.33' TOR
50 ft	
60 ft	

Notes:

During initial grouting, grout began coming through cracks in sidewalk. 11:52am at a depth of 47.11' bgs. Stopped and moved to column XO-3.

2nd Attempt: Re-drill 6:44 - 6:50; Pre-cut Grouting 6:52 - 7:32; Re-drill 7:39 - 7:46

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/2/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy & Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-2
Grout Mix:	Water	380	lit		GS (EL)	188.02
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	142.00	EL
TOR:	142.00	EL
Time Start:	9:09	
Time Finish:	9:44	
Drilling Duration:	0:33	h:mm
Grouting Parameters:		
Bottom of JGC:	142.00	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.05	EL
12 in/min Pull Rate to:	185.13	EL
Top of JGC:	185.13	EL
Time Start:	9:45	
Time Finish:	10:45	
Grouting Duration:	1:00	h:mm
Summary:		
Constructed JG Height:	43.13	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	46.02' TOR (9:39 AM)
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/28/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Snow, Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-3
Grout Mix:	Water	380	lit		GS (EL)	188.50
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	141.65	EL
TOR:	141.66	EL
Time Start:	13:54	
Time Finish:	14:27	
Drilling Duration:	0:33	h:mm
Grouting Parameters:		
Bottom of JGC:	141.66	EL
6 in/min Pull Rate to:	145.73	EL
8 in/min Pull Rate to:	163.24	EL
12 in/min Pull Rate to:	185.48	EL
Top of JGC:	185.48	EL
Time Start:	16:18	
Time Finish:	17:18	
Grouting Duration:	1:00	h:mm
Summary:		
Constructed JG Height:	43.82	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	
	46.84' TOR
50 ft	
60 ft	

Notes:

During initial drilling, kept losing return at a depth of 6' bgs. Stopped and consulted with WRSC and Parson's on they wanted to proceed. MTA suggestion to "pre-cut" columns using a lower pressure and no air.

2nd Attempt: Re-drill 3:08 - 3:10; Pre-cut grout 3:10 - 3:52; Re-drill 4:10 - 4:17.

Decision made between WRSC and Moretrench to return to XO-1 and try 'pre-cutting' column

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/2/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy & Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-4
Grout Mix:	Water	380	lit		GS (EL)	187.29
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	142.77	EL
TOR:	142.77	EL
Time Start:	12:13	
Time Finish:	12:47	
Drilling Duration:	0:22	h:mm
Grouting Parameters:		
Bottom of JGC:	142.77	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.36	EL
12 in/min Pull Rate to:	184.36	EL
Top of JGC:	184.36	EL
Time Start:	12:48	
Time Finish:	13:55	
Grouting Duration:	0:58	h:mm
Summary:		
Constructed JG Height:	41.59	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	37' Till
40 ft	
	44.52' TOR
	46.03 Final Depth (12:47 PM)
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/29/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-5
Grout Mix:	Water	380	lit		GS (EL)	189.77
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	142.92	EL
TOR:	142.99	EL
Time Start:	15:39	
Time Finish:	15:51	
Drilling Duration:	0:12	h:mm
Grouting Parameters:		
Bottom of JGC:	142.99	EL
6 in/min Pull Rate to:	147.77	EL
8 in/min Pull Rate to:	164.77	EL
12 in/min Pull Rate to:	186.85	EL
Top of JGC:	186.85	EL
Time Start:	17:22	
Time Finish:	18:24	
Grouting Duration:	1:02	h:mm
Summary:		
Constructed JG Height:	43.86	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	42.83' Till (3:42pm)
	46.78' TOR
50 ft	
60 ft	

Notes:

Attempted to drill but grout began to flow onto sidewalk, got to a depth of 5' bgs. Moved to XO-7.

2nd Attempt: Pre-Cut 3:53 - 4:14; Re-drill 5:08 - 5:21

Standby 4:27 - 5:08, grout surfacing on south side of berm around rig tracks.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/4/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-6
Grout Mix:	Water	380	lit		GS (EL)	187.07
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	147.07	EL
TOR:	147.07	EL
Time Start:	19:17	
Time Finish:	19:33	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	147.07	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.07	EL
12 in/min Pull Rate to:	183.10	EL
Top of JGC:	183.10	EL
Time Start:	20:06	
Time Finish:	20:59	
Grouting Duration:	0:53	h:mm

Summary:

Constructed JG Height:	36.03	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	40.00' TOR
50 ft	
60 ft	

Notes:

Hole had been previously drilled and tremie grouted.

Pre-cut grout: 7:33 - 7:50

Re-drill: 8:00 - 8:05

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/29/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-7
Grout Mix:	Water	380	lit		GS (EL)	189.39
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	146.28	EL
TOR:	146.29	EL
Time Start:	14:20	
Time Finish:	14:45	
Drilling Duration:	0:25	h:mm

Grouting Parameters:		
Bottom of JGC:	146.29	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.39	EL
12 in/min Pull Rate to:	186.31	EL
Top of JGC:	186.31	EL
Time Start:	19:30	
Time Finish:	20:25	
Grouting Duration:	0:55	h:mm

Summary:		
Constructed JG Height:	40.02	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	43.10' TOR
50 ft	
60 ft	

Notes:

During initial grouting (2:46 - 2:52), grout leaked out onto sidewalk. Pulled off hole and moved back to XO-5.
41.54' bgs

2nd Attempt: Re-drill 7:22 - 7:29;

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/4/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-8
Grout Mix:	Water	380	lit		GS (EL)	186.02
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	148.68	EL
TOR:	149.22	EL
Time Start:	16:02	
Time Finish:	16:22	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	149.22	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	160.19	EL
12 in/min Pull Rate to:	182.15	EL
Top of JGC:	182.15	EL
Time Start:	17:13	
Time Finish:	17:53	
Grouting Duration:	0:40	h:mm

Summary:

Constructed JG Height:	32.93	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	36.80' TOR
	38.84' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Pe-cut Grout: 16:22 - 16:37

Re-Drill: 17:08 - 17:11.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/1/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-9
Grout Mix:	Water	380	lit		GS (EL)	186.83
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	149.63	EL
TOR:	149.63	EL
Time Start:	11:55	
Time Finish:	12:50	
Drilling Duration:	0:34	h:mm
Grouting Parameters:		
Bottom of JGC:	149.63	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	161.90	EL
12 in/min Pull Rate to:	183.94	EL
Top of JGC:	183.94	EL
Time Start:	12:51	
Time Finish:	14:15	
Grouting Duration:	0:46	h:mm
Summary:		
Constructed JG Height:	34.31	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	37.20' TOR (12:04 PM)
40 ft	38.70' Final Depth (12:50 PM)
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/4/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny & Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-10
Grout Mix:	Water	380	lit		GS (EL)	186.57
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	151.97	EL
TOR:	151.97	EL
Time Start:	14:12	
Time Finish:	14:25	
Drilling Duration:	0:13	h:mm
Grouting Parameters:		
Bottom of JGC:	151.97	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	182.63	EL
Top of JGC:	182.63	EL
Time Start:	14:55	
Time Finish:	15:33	
Grouting Duration:	0:38	h:mm
Summary:		
Constructed JG Height:	30.66	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	34.6' TOR (2:21 PM)
	36.18' Final Depth (2:25 PM)
40 ft	
50 ft	
60 ft	

Notes:

Double Jetted & Redrilled from 2:25 PM to 2:55 PM

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/1/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-11
Grout Mix:	Water	380	lit		GS (EL)	186.75
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	153.48	EL
TOR:	153.62	EL
Time Start:	15:14	
Time Finish:	15:32	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	153.62	EL
6 in/min Pull Rate to:	155.75	EL
8 in/min Pull Rate to:	161.75	EL
12 in/min Pull Rate to:	183.93	EL
Top of JGC:	183.93	EL
Time Start:	15:34	
Time Finish:	16:15	
Grouting Duration:	0:41	h:mm

Summary:

Constructed JG Height:	30.31	ft

Depth	**Notes**
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	30.77' Till (3:22pm)
	33.13' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/2/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-12
Grout Mix:	Water	380	lit		GS (EL)	186.96
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.45	EL
TOR:	156.46	EL
Time Start:	19:46	
Time Finish:	19:58	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Bottom of JGC:	156.46	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	161.96	EL
12 in/min Pull Rate to:	184.04	EL
Top of JGC:	184.04	EL
Time Start:	19:59	
Time Finish:	20:33	
Grouting Duration:	0:34	h:mm

Summary:

Constructed JG Height:	27.58	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	30.50' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/1/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-13
Grout Mix:	Water	380	lit		GS (EL)	187.15
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	158.65	EL
TOR:	158.65	EL
Time Start:	17:18	
Time Finish:	17:34	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	158.65	EL
6 in/min Pull Rate to:	161.43	EL
8 in/min Pull Rate to:	162.18	EL
12 in/min Pull Rate to:	184.20	EL
Top of JGC:	184.20	EL
Time Start:	17:35	
Time Finish:	18:19	
Grouting Duration:	0:44	h:mm

Summary:

Constructed JG Height:	25.55	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	28.24' Till
30 ft	28.50' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/2/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-14
Grout Mix:	Water	380	lit		GS (EL)	186.74
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	160.04	EL
TOR:	160.08	EL
Time Start:	17:55	
Time Finish:	18:09	
Drilling Duration:	0:14	h:mm

Grouting Parameters:		
Bottom of JGC:	160.08	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.74	EL
12 in/min Pull Rate to:	183.82	EL
Top of JGC:	183.82	EL
Time Start:	18:10	
Time Finish:	18:39	
Grouting Duration:	0:29	h:mm

Summary:		
Constructed JG Height:	23.74	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	26.66' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/1/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-15
Grout Mix:	Water	380	lit		GS (EL)	187.35
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.20	EL
TOR:	164.20	EL
Time Start:	19:21	
Time Finish:	19:30	
Drilling Duration:	0:09	h:mm

Grouting Parameters:

Bottom of JGC:	164.20	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	167.35	EL
12 in/min Pull Rate to:	184.36	EL
Top of JGC:	184.36	EL
Time Start:	19:31	
Time Finish:	19:55	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	20.16	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	23.15' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/2/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-16
Grout Mix:	Water	380	lit		GS (EL)	186.81
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	164.63	EL
TOR:	164.64	EL
Time Start:	17:07	
Time Finish:	17:17	
Drilling Duration:	0:10	h:mm

Grouting Parameters:

Bottom of JGC:	164.64	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	166.81	EL
12 in/min Pull Rate to:	183.82	EL
Top of JGC:	183.82	EL
Time Start:	17:19	
Time Finish:	17:46	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	19.18	ft

Depth	Notes
0 ft	0' Sand/Soul
10 ft	
20 ft	
	22.17' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/1/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-17
Grout Mix:	Water	380	lit		GS (EL)	187.44
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity				Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	167.67	EL
TOR:	167.67	EL
Time Start:	20:06	
Time Finish:	20:17	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	167.67	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	169.44	EL
12 in/min Pull Rate to:	184.55	EL
Top of JGC:	184.55	EL
Time Start:	20:18	
Time Finish:	20:35	
Grouting Duration:	0:17	h:mm

Summary:

Constructed JG Height:	16.88	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	19.77' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/15/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-18
Grout Mix:	Water	380	lit		GS (EL)	188.09
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	169.32	EL
TOR:	169.43	EL
Time Start:	19:08	
Time Finish:	19:26	
Drilling Duration:	0:13	h:mm

Grouting Parameters:		
Bottom of JGC:	169.43	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	172.09	EL
12 in/min Pull Rate to:	184.87	EL
Top of JGC:	184.87	EL
Time Start:	19:51	
Time Finish:	20:23	
Grouting Duration:	0:32	h:mm

Summary:		
Constructed JG Height:	15.44	ft

Depth	Notes
0 ft	
	0' Cementitious Material
10 ft	
20 ft	18.66' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Pre-cut grout: 7:27 - 7:35

Re-drill: 7:48 - 7:50

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/16/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Snow & Clouds
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO 19
Grout Mix:	Water	380	lit		GS (EL)	188.10
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	168.48	EL
TOR:	170.60	EL
Time Start:	7:57	
Time Finish:	8:39	
Drilling Duration:	0:37	h:mm

Grouting Parameters:

Bottom of JGC:	168.48	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	184.88	EL
Top of JGC:	184.88	EL
Time Start:	9:21	
Time Finish:	9:42	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	16.40	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	16.5' Till (8:00 AM)
20 ft	17.5' TOR (8:02 AM)
	21.12' Final Depth (8:39 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Pre-cut grout: 8:39 - 8:47

Re-drill: 9:16 - 9:21

Water seeping from east side of berm. Compass rebuilt from 8:48 - 9:15

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/19/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear,Cool,Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-20
Grout Mix:	Water	380	lit		GS (EL)	187.54
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	169.54	EL
TOR:	170.36	EL
Time Start:	15:15	
Time Finish:	16:31	
Drilling Duration:	0:16	h:mm

Grouting Parameters:		
Bottom of JGC:	170.36	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	171.50	EL
12 in/min Pull Rate to:	184.54	EL
Top of JGC:	184.54	EL
Time Start:	16:46	
Time Finish:	17:03	
Grouting Duration:	0:17	h:mm

Summary:		
Constructed JG Height:	14.18	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
	17.18' TOR
20 ft	18.00' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Pre-cut grout: 4:32 - 4:39

Re-Drill: 4:44 - 4:45

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/5/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Overcast
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-21
Grout Mix:	Water	380	lit		GS (EL)	187.44
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	187.44	EL
Bottom of ISS:	174.94	EL
Nozzle:	169.26	EL
TOR:	169.34	EL
Time Start:	14:10	
Time Finish:	14:33	
Drilling Duration:	0:23	h:mm

Grouting Parameters:		
Bottom of JGC:	169.34	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	177.93	EL
Top of JGC:	177.93	EL
Time Start:	14:34	
Time Finish:	14:54	
Grouting Duration:	0:20	h:mm

Summary:		
Constructed JG Height:	8.59	ft

Depth	Notes
0 ft	0' Excavator ISS Cell
10 ft	12.50' Sand/Soil (2:24pm)
20 ft	18.10' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/5/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-21A
Grout Mix:	Water	380	lit		GS (EL)	187.40
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.40	EL
Bottom of ISS:	176.29	EL
Nozzle:	170.83	EL
TOR:	170.90	EL
Time Start:	17:50	
Time Finish:	18:11	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	170.90	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	179.33	EL
Top of JGC:	179.33	EL
Time Start:	18:12	
Time Finish:	18:23	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	8.43	ft

Depth	**Notes**
0 ft	Excavator ISS Cell
10 ft	11.11' Sand/Soil
	16.50' TOR
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/22/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-22
Grout Mix:	Water	380	lit		GS (EL)	186.85
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	170.84	EL
TOR:	170.85	EL
Time Start:	18:55	
Time Finish:	19:07	
Drilling Duration:	0:12	h:mm

Grouting Parameters:		
Bottom of JGC:	170.85	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	172.18	EL
12 in/min Pull Rate to:	184.16	EL
Top of JGC:	184.16	EL
Time Start:	19:09	
Time Finish:	19:24	
Grouting Duration:	0:15	h:mm

Summary:		
Constructed JG Height:	13.31	ft

Depth	Notes
0 ft	0' Gravel
	3.00' Sand/Soil
10 ft	
	16.00' TOR
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

180 degree column

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/5/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-22A
Grout Mix:	Water	380	lit		GS (EL)	187.48
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.48	EL
Bottom of ISS:	175.98	EL
Nozzle:	170.94	EL
TOR:	170.98	EL
Time Start:	16:46	
Time Finish:	17:05	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	170.98	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	179.02	EL
Top of JGC:	179.02	EL
Time Start:	17:07	
Time Finish:	17:16	
Grouting Duration:	0:09	h:mm

Summary:

Constructed JG Height:	8.04	ft

Depth	**Notes**
0 ft	Excavator ISS Cell
10 ft	11.50' Sand/Soil (4:57pm)
	16.50' TOR
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/22/10
SHEET: 1 OF 1
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Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-23
Grout Mix:	Water	380	lit		GS (EL)	186.58
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	170.93	EL
TOR:	170.94	EL
Time Start:	19:39	
Time Finish:	19:51	
Drilling Duration:	0:12	h:mm

Grouting Parameters:		
Bottom of JGC:	170.94	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	171.85	EL
12 in/min Pull Rate to:	183.66	EL
Top of JGC:	183.66	EL
Time Start:	19:52	
Time Finish:	20:07	
Grouting Duration:	0:15	h:mm

Summary:		
Constructed JG Height:	12.72	ft

Depth	Notes
0 ft	0' Gravel
	3.00' Sand/Soil
10 ft	
	15.64' TOR
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

180 degree column

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/22/10
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO-24
Grout Mix:	Water	380	lit		GS (EL)	186.98
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	170.77	EL
TOR:	170.78	EL
Time Start:	20:16	
Time Finish:	20:30	
Drilling Duration:	0:14	h:mm

Grouting Parameters:		
Bottom of JGC:	170.78	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	173.36	EL
12 in/min Pull Rate to:	184.03	EL
Top of JGC:	184.03	EL
Time Start:	20:31	
Time Finish:	20:54	
Grouting Duration:	0:18	h:mm

Summary:		
Constructed JG Height:	13.25	ft

Depth	**Notes**
0 ft	0' Gravel
	2.00' Obstruction
	3.00' Sand/Soil
10 ft	
	16.20' TOR
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

180 degree column

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/23/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Rain & Sleet
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	XO 25
Grout Mix:	Water	380	lit		GS (EL)	187.09
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.5			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	170.09	EL
TOR:	170.09	EL
Time Start:	9:15	
Time Finish:	9:30	
Drilling Duration:	0:15	h:mm

Grouting Parameters:		
Bottom of JGC:	170.09	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	184.14	EL
Top of JGC:	184.14	EL
Time Start:	9:31	
Time Finish:	9:51	
Grouting Duration:	0:16	h:mm

Summary:		
Constructed JG Height:	14.05	ft

Depth	Notes
0 ft	0' Gravel
	3' Sand/Soil
10 ft	
	17' TOR (9:24 AM)
20 ft	18.53' Final Depth (9:30 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

180 degree column

Technican Signature: Jeff Ayres