MORETRENCH

DATE: 9/5/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather: Sunny	
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.	INT-01
GS (EL)	186.30
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	150.07	EL
Bottom:	150.07	EL
Time Start:	13:05	
Time Finish:	13:59	
Drilling Duration:	0:29	hh:mm

Grouting Parameters:

Bottom of JGC:	150.07	EL
Pull Rate (to TOR-4'):	6	in/min
Pull Rate (to TOJGC):	8	in/min
Top of JGC:	183.45	EL
Time Start:	14:00	
Time Finish:	14:41	
Grouting Duration:	0:41	hh:mm

Summary:

Constructed JG Height:	33.38	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS/Sands
	Very Strong Odor
10 ft	Very oily return
20 ft	
30 ft	32.67' Hard Layer (1:51)
	35.10' Large Cobble
	36.23' Bottom of hole (1:59)
40 ft	
50 ft	
60 ft	

Notes:

6 in/min 36.23' - 32.19'
8 in/min 32.19' - 30.09'
12 in/min 30.09' - 2.85'

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/8/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Partly Sunny
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.	INT-02
GS (EL)	186.23
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	149.65	EL
Bottom:	148.15	EL
Time Start:	9:21	
Time Finish:	9:47	
Drilling Duration:	0:26	hh:mm

Grouting Parameters:

Bottom of JGC:	149.65	EL
Pull Rate (to TOR-4'):	6	in/min
Pull Rate (to TOJGC):	8	in/min
Top of JGC:	183.41	EL
Time Start:	9:48	
Time Finish:	10:39	
Grouting Duration:	0:51	hh:mm

Summary:

Constructed JG Height:	33.76	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementatious Material
	No return from 7.5' to 10.5'
10 ft	
20 ft	22.5' Sand
30 ft	31.95' Hard Layer (Till?) (9:26am)
	35.5' ISS/Organics/Cobbles
	36.5' Sand
	38.08' Bottom of hole (9:47am)
40 ft	
50 ft	
60 ft	

Notes:

Lost return @ 36.58' Started grouting at 9:48 and did not start lifting rods until 9:55. No return during this time.
Gained return at 9:57 at a depth of35.32'

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/8/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Partly Sunny
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.	INT-03
GS (EL)	186.17
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	141.85	EL
Bottom:	140.35	EL
Time Start:	11:10	
Time Finish:	12:32	
Drilling Duration:	0:29	hh:mm

Grouting Parameters:

Bottom of JGC:	141.85	EL
Pull Rate (to TOR-4'):	6	in/min
Pull Rate (to TOJGC):	8	in/min
Top of JGC:	183.32	EL
Time Start:	12:34	
Time Finish:	13:29	
Grouting Duration:	0:55	hh:mm

Summary:

Constructed JG Height:	41.47	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementatious Material
10 ft	13.5' Sand
20 ft	
30 ft	32.52' Hard Layer (Till?)
	34.5' Sand
	35.29' Gravel/Cobbles
40 ft	
	43.66' TOR (12:32)
	45.82' Bottom of hole
50 ft	
60 ft	

Notes:

6 in/min 44.32' - 39.24'
8 in/min 39.24' - 24.87'
12 in/min 24.87' - 2.85'

Parson's sampled at 40' bgs.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/8/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Partly Sunny
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.	INT-04
GS (EL)	186.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	147.14	EL
Top of Rock:	147.14	EL
Time Start:	15:00	
Time Finish:	15:21	
Drilling Duration:	0:21	hh:mm

Grouting Parameters:

Bottom of JGC:	147.14	EL
Pull Rate (to TOR-4'):	6	in/min
Pull Rate (to TOJGC):	8	in/min
Top of JGC:	183.29	EL
Time Start:	15:27	
Time Finish:	16:11	
Grouting Duration:	0:44	hh:mm

Summary:

Constructed JG Height:	36.15	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sands
	Communication with Int-02 around 6'
10 ft	
20 ft	
30 ft	
	37.57' Hard Layer (Till?) (3:14)
40 ft	39.04' TOR (3:20)
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather: Cloudy	
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.	INT-05
GS (EL)	186.07
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	144.67	EL
Top of Rock:	144.71	EL
Time Start:	10:00	
Time Finish:	10:33	
Drilling Duration:	0:33	hh:mm

Grouting Parameters:

Bottom of JGC:	144.67	EL
Pull Rate (to TOR-4'):	6	in/min
Pull Rate (to TOJGC):	8	in/min
Top of JGC:	183.08	EL
Time Start:	10:36	
Time Finish:	11:21	
Grouting Duration:	0:45	hh:mm

Summary:

Constructed JG Height:	38.41	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sands
10 ft	
20 ft	
30 ft	
	35.56' Hard Layer (Till?)
40 ft	41.36' TOR (10:33)
50 ft	
60 ft	

Notes:

6 in/min 41.40' - 37.24'
8 in/min 37.24' - 29.10'
12 in/min 29.10' 2.99'

Parsons sampled at 30' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather: Cloudy	
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.	Int-06
GS (EL)	186.74
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:	146.84	EL
Depth to TOR:	146.89	EL
Time Start:	11:55	
Time Finish:	12:24	
Drilling Duration:	0:29	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	146.84	EL
Pull Rate (to 35.50'):	6	in/min
Pull Rate (to 24.21'):	8	in/min
Pull Rate (to 2.95'):	12	in/min
Depth to Top of JGC:	183.79	EL
Time Start:	12:25	
Time Finish:	13:22	
Grouting Duration:	0:46	hh:mm

Summary:

Constructed JG Height:	36.95	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
	26.4' Gravel/Cobble
30 ft	
	36.3' Hard Layer (Till?) (12:07)
40 ft	39.85' TOR (12:24)
50 ft	
60 ft	

Notes:

12:41 - Grouting stopped due to spoils overflow. Waiting for Compass to put a laborer on the pump.

12:52 - Continue grouting

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/8/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cloudy
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.	INT-07
GS (EL)	186.16
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	147.87	EL
Top of Rock:	147.87	EL
Time Start:	16:39	
Time Finish:	16:56	
Drilling Duration:	0:17	hh:mm

Grouting Parameters:

Bottom of JGC:	147.87	EL
Pull Rate (to TOR-4'):	6	in/min
Pull Rate (to TOJGC):	8	in/min
Top of JGC:	183.17	EL
Time Start:	16:58	
Time Finish:	17:42	
Grouting Duration:	0:44	hh:mm

Summary:

Constructed JG Height:	35.30	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sands
10 ft	
20 ft	
30 ft	
	33.49' Hard Layer (Till?)
	Communication with Int-02 @ 35'
	37.63' TOR (4:56)
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Partly Cloudy
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.	Int-08
GS (EL)	186.37
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:	NA	EL
Depth of Nozzle:	150.61	EL
Depth to Bottom:	149.11	EL
Time Start:	14:00	
Time Finish:	14:22	
Drilling Duration:	0:22	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	150.61	EL
Pull Rate (to 31'):	6	in/min
Pull Rate (to 23.13'):	8	in/min
Pull Rate (to 2.92'):	12	in/min
Depth to Top of JGC:	183.45	EL
Time Start:	14:24	
Time Finish:	15:15	
Grouting Duration:	0:42	hh:mm

Summary:

Constructed JG Height:	32.84	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
	33.95' Hard Layer (Till?)
	35.76' Final Nozzle Depth (2:22)
40 ft	
50 ft	
60 ft	

Notes:

Target depth: Bottom EL of J-3 (150.83) --> 35.54' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Parlty Cloudy
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.	Int-09
GS (EL)	186.73
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:	151.49	EL
Depth to Bottom:	149.99	EL
Time Start:	15:34	
Time Finish:	15:50	
Drilling Duration:	0:16	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	151.49	EL
Pull Rate (to 30.31'):	6	in/min
Pull Rate (to 24.92'):	8	in/min
Pull Rate (to 2.82'):	12	in/min
Depth to Top of JGC:	183.91	EL
Time Start:	15:52	
Time Finish:	16:33	
Grouting Duration:	0:41	hh:mm

Summary:

Constructed JG Height:	32.42	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
	34.5' Cobble
	35.24' Final Nozzle Depth (3:50)
40 ft	
50 ft	
60 ft	

Notes:

Target Depth: Bottom EL of 8-i-5 (151.56) --> 35.17' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/25/09
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:	Sunny
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.	Int-10
GS (EL)	188.05
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:	151.12	EL
Depth of Nozzle:	144.74	EL
Depth to TOR:	144.85	EL
Time Start:	10:19	
Time Finish:	10:40	
Drilling Duration:	0:21	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	144.85	EL
6 in/min Pull Rate to:	155.70	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	155.70	EL
Time Start:	10:43	
Time Finish:	11:04	
Grouting Duration:	0:21	hh:mm

Summary:

Constructed JG Height:	10.85	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious
10 ft	20-30 in/min
20 ft	25-35 in/min
30 ft	20-25 in/min
	20-25 in/min
	36.93' Till (10:33)
40 ft	
	43.20' TOR
50 ft	
60 ft	

Notes:

Specific Density:

41' bgs - 1.62; 36' bgs - 1.58; 33' bgs - 1.49

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Sunny
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.	Int-11
GS (EL)	186.47
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:	141.36	EL
Depth to TOR:	141.37	EL
Time Start:	16:48	
Time Finish:	17:04	
Drilling Duration:	0:16	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	141.36	EL
Pull Rate (to 41.17'):	6	in/min
Pull Rate (to 26.67'):	8	in/min
Pull Rate (to 2.89'):	12	in/min
Depth to Top of JGC:	183.58	EL
Time Start:	17:05	
Time Finish:	18:05	
Grouting Duration:	0:53	hh:mm

Summary:

Constructed JG Height:	42.22	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
	38.74' Hard Layer (Till?)
40 ft	
	45.10' TOR (5:04)
50 ft	
60 ft	

Notes:

Minimal return from Int-11 during drilling and grouting. Large communication with Int-07, Int-08 and Int-09.
Drilled hole with grout.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/25/09
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: Sunny
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.	Int-12
GS (EL)	188.39
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:	139.24	EL
Depth to TOR:	139.26	EL
Time Start:	13:06	
Time Finish:	13:24	
Drilling Duration:	0:18	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	139.26	EL
6 in/min Pull Rate to:	150.96	EL
8 in/min Pull Rate to:	160.50	EL
12 in/min Pull Rate to:	185.47	EL
Depth to Top of JGC:	185.47	EL
Time Start:	13:25	
Time Finish:	14:35	
Grouting Duration:	1:10	hh:mm

Summary:

Constructed JG Height:	46.21	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	39.13' Till
50 ft	49.13' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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	1.46		

Element ID No.	Int-13
GS (EL)	189.8
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	146.53	EL
TOR:	146.57	EL
Time Start:	15:38	
Time Finish:	15:54	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	146.57	EL
6 in/min Pull Rate to:	151.55	EL
8 in/min Pull Rate to:	164.83	EL
12 in/min Pull Rate to:	186.85	EL
Top of JGC:	186.85	EL
Time Start:	15:54	
Time Finish:	16:51	
Grouting Duration:	0:57	h:mm

Summary:

Constructed JG Height:	40.28	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	39.98' Till (3:47pm)
	43.23' TOR
50 ft	
60 ft	

Notes:

Hole was supposed to be located thru ISS Auger column 8-J-5 with Bot EL 162.43. No ISS was encountered.
Grouted from bedrock to 3' bgs.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/26/09
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:	Sunny
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	1.46		

Element ID No.	Int-14
GS (EL)	188.42
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:	141.27	EL
Depth to TOR:	142.28	EL
Time Start:	11:04	
Time Finish:	11:27	
Drilling Duration:	0:23	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.28	EL
6 in/min Pull Rate to:	148.46	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.53	EL
Depth to Top of JGC:	185.53	EL
Time Start:	11:28	
Time Finish:	12:21	
Grouting Duration:	0:53	hh:mm

Summary:

Constructed JG Height:	43.25	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sands
10 ft	
20 ft	
30 ft	
40 ft	43.7' Till
	46.14' TOR
50 ft	
60 ft	

Notes:

Parson's sampled at 35' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/24/09
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:	Sunny
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.	Int-15
GS (EL)	188.67
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:	NA	EL
Depth of Nozzle:	133.36	EL
Depth to TOR:	133.40	EL
Time Start:	7:29	
Time Finish:	7:53	
Drilling Duration:	0:24	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	133.40	EL
6 in/min Pull Rate to:	141.82	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.75	EL
Depth to Top of JGC:	185.75	EL
Time Start:	7:56	
Time Finish:	9:01	
Grouting Duration:	1:05	hh:mm

Summary:

Constructed JG Height:	52.35	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Soft Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	38.50' Sand
50 ft	48.81' Till
60 ft	55.27' TOR

Notes:

Parson's sampled at 40' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/25/09
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:	Sunny
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	1.5		

Element ID No.	Int-16
GS (EL)	188.92
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:	138.72	EL
Depth to TOR:	138.77	EL
Time Start:	7:50	
Time Finish:	8:20	
Drilling Duration:	0:30	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	138.77	EL
6 in/min Pull Rate to:	145.94	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.97	EL
Depth to Top of JGC:	185.97	EL
Time Start:	8:27	
Time Finish:	9:28	
Grouting Duration:	1:01	hh:mm

Summary:

Constructed JG Height:	47.20	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
	7.60' Sand
10 ft	
20 ft	
30 ft	
40 ft	
	45.40' Till
50 ft	50.15' TOR
60 ft	

Notes:

Parson's sampled at 40' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/29/09
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:	Sunny
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	1.52		

Element ID No.	Int-17
GS (EL)	188.59
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:	136.98	EL
Depth to TOR:	137.06	EL
Time Start:	11:55	
Time Finish:	12:11	
Drilling Duration:	0:16	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	137.06	EL
6 in/min Pull Rate to:	139.97	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.60	EL
Depth to Top of JGC:	185.60	EL
Time Start:	12:12	
Time Finish:	13:07	
Grouting Duration:	0:55	hh:mm

Summary:

Constructed JG Height:	48.54	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sands and residual cementitious material
	Drilled at fast penetration rate but spoils had greenish tint
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	49.63' Till
	51.33' TOR
60 ft	

Notes:

Drilled with drag bit instead of roller bit

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/30/09
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: Partly Sunny
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	1.46	

Element ID No.	Int-18
GS (EL)	189.21
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:	141.33	EL
Depth to TOR:	141.65	EL
Time Start:	10:24	
Time Finish:	10:42	
Drilling Duration:	0:18	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	141.65	EL
6 in/min Pull Rate to:	148.53	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.26	EL
Depth to Top of JGC:	186.26	EL
Time Start:	10:44	
Time Finish:	11:55	
Grouting Duration:	1:01	hh:mm

Summary:

Constructed JG Height:	44.61	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	41.08' Till
	47.56' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/30/09
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:	Partly Sunny
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.	Int-19
GS (EL)	189.08
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.08	EL
Depth to Bottom of ISS:	181.20	EL
Depth of Nozzle:	140.95	EL
Depth to TOR:	140.96	EL
Time Start:	12:37	
Time Finish:	12:47	
Drilling Duration:	0:10	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	140.96	EL
6 in/min Pull Rate to:	151.88	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.13	EL
Depth to Top of JGC:	186.13	EL
Time Start:	12:48	
Time Finish:	13:47	
Grouting Duration:	0:59	hh:mm

Summary:

Constructed JG Height:	45.17	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
	6.38' Sand
10 ft	
20 ft	
30 ft	
40 ft	
	44.31' Till
	48.12' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/30/09
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: Cloudy
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.	Int-20
GS (EL)	188.89
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.89	EL
Depth to Bottom of ISS:	183.89	EL
Depth of Nozzle:	138.59	EL
Depth to TOR:	138.64	EL
Time Start:	14:50	
Time Finish:	15:07	
Drilling Duration:	0:17	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	138.64	EL
6 in/min Pull Rate to:	144.86	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.90	EL
Depth to Top of JGC:	185.90	EL
Time Start:	15:08	
Time Finish:	16:06	
Grouting Duration:	0:58	hh:mm

Summary:

Constructed JG Height:	47.26	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
	5' Sand
10 ft	
20 ft	
30 ft	
40 ft	
	44.03' Till
50 ft	50.25' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/3/09
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:	Sunny
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	1.46		

Element ID No.	Int-21
GS (EL)	190.3
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	139.71	EL
TOR:	139.88	EL
Time Start:	15:08	
Time Finish:	15:38	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	139.88	EL
6 in/min Pull Rate to:	145.61	EL
8 in/min Pull Rate to:	165.42	EL
12 in/min Pull Rate to:	187.31	EL
Top of JGC:	187.31	EL
Time Start:	15:40	
Time Finish:	16:49	
Grouting Duration:	1:09	h:mm

Summary:

Constructed JG Height:	47.43	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	8' Sand/Soil?
10 ft	
20 ft	21' Cementitious Material
30 ft	31' Sand/Soil?
40 ft	
	44.84' Till
50 ft	50.42' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/30/09
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: Cloudy
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.	Int-22
GS (EL)	189.26
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.26	EL
Depth to Bottom of ISS:	184.26	EL
Depth of Nozzle:	134.50	EL
Depth to TOR:	134.51	EL
Time Start:	16:20	
Time Finish:	16:34	
Drilling Duration:	0:14	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.51	EL
6 in/min Pull Rate to:	144.51	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.34	EL
Depth to Top of JGC:	186.34	EL
Time Start:	16:35	
Time Finish:	18:01	
Grouting Duration:	1:06	hh:mm

Summary:

Constructed JG Height:	51.83	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
	5' Sand
10 ft	
20 ft	
30 ft	
40 ft	
	45.46' Till
50 ft	
	54.75' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/9/09
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:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

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

Grout Mix:			
Water	500	lit	
Cement	500	kg	
Slag	0	kg	
Specific Gravity	1.55		

Element ID No.	Int-23
GS (EL)	190.63
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	134.53	EL
TOR:	134.54	EL
Time Start:	15:20	
Time Finish:	15:43	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	134.54	EL
6 in/min Pull Rate to:	142.15	EL
8 in/min Pull Rate to:	165.70	EL
12 in/min Pull Rate to:	187.68	EL
Top of JGC:	187.68	EL
Time Start:	15:43	
Time Finish:	17:19	
Grouting Duration:	1:17	h:mm

Summary:

Constructed JG Height:	53.14	ft
Number of Overlaps:		

Depth	Notes
0 ft	Layers of cementitious material and Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	48.55' Till (3:33)
60 ft	56.09' TOR

Notes:

Sampled at 50' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/9/09
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:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

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

Grout Mix:			
Water	500	lit	
Cement	500	kg	
Slag	0	kg	
Specific Gravity	1.55		

Element ID No.	Int-24
GS (EL)	189.58
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	133.54	EL
TOR:	133.55	EL
Time Start:	11:56	
Time Finish:	12:29	
Drilling Duration:	0:33	h:mm

Grouting Parameters:

Bottom of JGC:	133.55	EL
6 in/min Pull Rate to:	138.05	EL
8 in/min Pull Rate to:	164.69	EL
12 in/min Pull Rate to:	186.66	EL
Top of JGC:	186.66	EL
Time Start:	12:29	
Time Finish:	14:12	
Grouting Duration:	1:27	h:mm

Summary:

Constructed JG Height:	53.11	ft
Number of Overlaps:		

Depth	Notes
0 ft	Layers of cementitious material and sands
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	51.86' Till (12:20)
	56.03' TOR
60 ft	

Notes:

Sampled at 50' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/7/09
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:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

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

Grout Mix:			
Water	500	lit	
Cement	500	kg	
Slag	0	kg	
Specific Gravity	1.5		

Element ID No.	Int-25
GS (EL)	189.3
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	133.85	EL
TOR:	133.90	EL
Time Start:	9:41	
Time Finish:	10:16	
Drilling Duration:	0:35	h:mm

Grouting Parameters:

Bottom of JGC:	133.90	EL
6 in/min Pull Rate to:	143.60	EL
8 in/min Pull Rate to:	164.33	EL
12 in/min Pull Rate to:	186.68	EL
Top of JGC:	186.68	EL
Time Start:	10:17	
Time Finish:	12:06	
Grouting Duration:	1:49	h:mm

Summary:

Constructed JG Height:	52.78	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	33.08' Soil (10:05)
40 ft	
50 ft	45.39' Cementitious Material 49.30' Till
60 ft	55.40' TOR

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 11/7/09
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:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

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

Grout Mix:			
Water	500	lit	
Cement	500	kg	
Slag	0	kg	
Specific Gravity	1.5		

Element ID No.	Int-26
GS (EL)	190.77
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	134.11	EL
TOR:	134.12	EL
Time Start:	13:18	
Time Finish:	13:49	
Drilling Duration:	0:31	h:mm

Grouting Parameters:

Bottom of JGC:	134.12	EL
6 in/min Pull Rate to:	140.87	EL
8 in/min Pull Rate to:	165.88	EL
12 in/min Pull Rate to:	187.85	EL
Top of JGC:	187.85	EL
Time Start:	13:50	
Time Finish:	15:11	
Grouting Duration:	1:21	h:mm

Summary:

Constructed JG Height:	53.73	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	10-15 in/min
10 ft	10.8' - 13.5' Soft Spot
	20-25 in/min
	17.5' - 18.5' Soft Spot
20 ft	
	10 in/min
	27.5' - 30.5' Soft Spot
30 ft	
	10-15 in/min
40 ft	
	47.5' - 49.5' Soft Spot
50 ft	50.58' Till
	56.65' TOR
60 ft	

Notes:

53' - 1.54; 48' - 1.51; 43' - 1.50; 33' - 1.50; 28' - 1.52; 20' - 1.50

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/24/09
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:	Raining
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.	Int-27
GS (EL)	189.58
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:	132.92	EL
Depth to TOR:	132.96	EL
Time Start:	12:32	
Time Finish:	12:58	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.96	EL
6 in/min Pull Rate to:	138.79	EL
8 in/min Pull Rate to:	157.10	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	157.10	EL
Time Start:	12:59	
Time Finish:	13:42	
Grouting Duration:	0:43	h:mm

Summary:

Constructed JG Height:	24.14	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	40 in/min
10 ft	35 in/min
	30 in/min
20 ft	
	25 in/min
30 ft	10-15 in/min
	36.93' Sand (12:49pm)
40 ft	
50 ft	52.86' Till
	56.62' TOR
60 ft	

Notes:

Encountered cementitious material to a depth of 36.93' bgs. Witnessed by Parson's and agreed to grout from bedrock to a depth of 32.5' bgs.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/23/09
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:	Cool, Cloudy
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.	Int-28
GS (EL)	189.92
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.92	EL
Depth to Bottom of ISS:	139.95	EL
Depth of Nozzle:	132.87	EL
Depth to TOR:	132.88	EL
Time Start:	16:15	
Time Finish:	17:13	
Drilling Duration:	0:58	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.88	EL
6 in/min Pull Rate to:	143.23	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	143.23	EL
Time Start:	17:13	
Time Finish:	17:35	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	10.35	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	49.97' Sand (5:02pm)
	51.50' Till
	57.04' TOR
60 ft	

Notes:

Partial thru N5, ISS Bot EL 139.7
MTA ISS Bot EL 139.95
Grout to EL 142.95

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/24/09
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:	Cloudy, Misting
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	1.45		

Element ID No.	Int-29
GS (EL)	189.66
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.66	EL
Depth to Bottom of ISS:	141.01	EL
Depth of Nozzle:	132.34	EL
Depth to TOR:	132.35	EL
Time Start:	10:07	
Time Finish:	11:13	
Drilling Duration:	1:06	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.35	EL
6 in/min Pull Rate to:	144.09	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	144.09	EL
Time Start:	11:13	
Time Finish:	11:41	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	11.74	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column N5
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	48.65' Sand (11:00am)
	52.71' Till
	57.31' TOR
60 ft	

Notes:

Partial thru N5, ISS Bot EL 139.7
MTA ISS Bot EL 141
Grout to EL 144

Sampled at 35' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/20/09
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	1.48		

Element ID No.	Int-30
GS (EL)	190.11
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:	135.06	EL
Depth to Bottom:	135.06	EL
Time Start:	11:59	
Time Finish:	12:05	
Drilling Duration:	0:06	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.06	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.18	EL
12 in/min Pull Rate to:	187.16	EL
Depth to Top of JGC:	187.16	EL
Time Start:	12:08	
Time Finish:	13:31	
Grouting Duration:	1:23	h:mm

Summary:

Constructed JG Height:	52.10	ft
Number of Overlaps:		

Depth	Notes
0 ft	Drilled through fresh jet grout from previous hole, SI-6
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	55.05' Total Depth
60 ft	

Notes:

Target Bot EL 135.52 (8P4)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/19/09
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,Cold
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.	Int-31
GS (EL)	190.35
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:	135.00	EL
Depth to Bottom:	135.00	EL
Time Start:	13:21	
Time Finish:	13:32	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.00	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.38	EL
12 in/min Pull Rate to:	187.36	EL
Depth to Top of JGC:	187.36	EL
Time Start:	13:33	
Time Finish:	14:48	
Grouting Duration:	1:15	h:mm

Summary:

Constructed JG Height:	52.36	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	55.35' Final Depth
60 ft	

Notes:

Target EL 135.23 (8P3)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/15/09
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:	Cloudy/Raining
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.	Int-32
GS (EL)	190
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:	135.11	EL
Depth to Bottom:	135.11	EL
Time Start:	11:15	
Time Finish:	11:27	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.11	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.10	EL
12 in/min Pull Rate to:	187.08	EL
Depth to Top of JGC:	187.08	EL
Time Start:	11:27	
Time Finish:	12:43	
Grouting Duration:	1:16	h:mm

Summary:

Constructed JG Height:	51.97	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	54.89' Final Depth
60 ft	

Notes:

Target EL 135.23 (8P3)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/15/09
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:	Raining/Cold
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.	Int-33
GS (EL)	189.96
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:	135.07	EL
Depth to Bottom:	135.07	EL
Time Start:	13:08	
Time Finish:	13:29	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.07	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.96	EL
12 in/min Pull Rate to:	187.01	EL
Depth to Top of JGC:	187.01	EL
Time Start:	13:30	
Time Finish:	14:46	
Grouting Duration:	1:16	h:mm

Summary:

Constructed JG Height:	51.94	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	54.89' Final Depth
60 ft	

Notes:

Target EL 135.23 (8P3)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/14/09
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:	Cloudy, Cold
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.	Int-34
GS (EL)	190.49
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:	134.85	EL
Depth to Bottom:	134.85	EL
Time Start:	8:07	
Time Finish:	8:25	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.85	EL
6 in/min Pull Rate to:	135.60	EL
8 in/min Pull Rate to:	165.49	EL
12 in/min Pull Rate to:	187.60	EL
Depth to Top of JGC:	187.60	EL
Time Start:	8:26	
Time Finish:	9:46	
Grouting Duration:	1:20	h:mm

Summary:

Constructed JG Height:	52.75	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	55.64' Drilled to
60 ft	

Notes:

Target EL 135.23 (8P3)

Sampled at 20' bgs

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 10/13/09
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:	Sunny
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	1.46		

Element ID No.	Int-35
GS (EL)	190.49
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:	134.78	EL
Depth to Bottom:	134.78	EL
Time Start:	13:16	
Time Finish:	13:41	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.78	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.53	EL
12 in/min Pull Rate to:	187.50	EL
Depth to Top of JGC:	187.50	EL
Time Start:	13:42	
Time Finish:	15:10	
Grouting Duration:	1:19	h:mm

Summary:

Constructed JG Height:	52.72	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	55.71' Drilled to
60 ft	

Notes:

Target EL 135.23 (8P3)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/19/09
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, Cold
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	1.45		

Element ID No.	Int-36
GS (EL)	189.76
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:	134.90	EL
Depth to Bottom:	134.90	EL
Time Start:	8:51	
Time Finish:	9:10	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.90	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	161.77	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	161.77	EL
Time Start:	9:13	
Time Finish:	10:13	
Grouting Duration:	0:48	h:mm

Summary:

Constructed JG Height:	26.87	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	29 in/min
10 ft	
	25-30 in/min
20 ft	
	20-25 in/min
30 ft	
	75 in/min
40 ft	80 in/min
	25 in/min
50 ft	
	54.86' Final Depth
60 ft	

Notes:

Target EL 135.23 (8P3)

Sampled ay 35' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/14/09
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	1.46		

Element ID No.	Int-37
GS (EL)	190.17
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:	135.05	EL
Depth to Bottom:	135.05	EL
Time Start:	10:54	
Time Finish:	11:12	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.05	EL
6 in/min Pull Rate to:	137.81	EL
8 in/min Pull Rate to:	165.20	EL
12 in/min Pull Rate to:	187.18	EL
Depth to Top of JGC:	187.18	EL
Time Start:	11:13	
Time Finish:	12:29	
Grouting Duration:	1:16	h:mm

Summary:

Constructed JG Height:	52.13	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	55.12' Drilled to
60 ft	

Notes:

Target EL 135.23 (8P3)

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 10/15/09
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:	Cloudy, Cold
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.	Int-38
GS (EL)	189.8
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:	135.04	EL
Depth to Bottom:	135.04	EL
Time Start:	8:13	
Time Finish:	8:26	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.04	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.80	EL
12 in/min Pull Rate to:	186.81	EL
Depth to Top of JGC:	186.81	EL
Time Start:	8:27	
Time Finish:	9:51	
Grouting Duration:	1:24	h:mm

Summary:

Constructed JG Height:	51.77	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sands
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	54.76' Final Depth
60 ft	

Notes:

Target EL 135.23 (8P3)

Sampled at 30' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/10/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 814527	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Partly Sunny
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		

Element ID No.	Int-39
GS (EL)	186.21
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:	142.77	EL
Depth to Bottom:	141.27	EL
Time Start:	11:58	
Time Finish:	12:36	
Drilling Duration:	0:38	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.77	EL
Pull Rate (to):	6	in/min
Pull Rate (to):	8	in/min
Pull Rate (to):	12	in/min
Depth to Top of JGC:	183.22	EL
Time Start:	12:37	
Time Finish:	13:52	
Grouting Duration:	1:15	hh:mm

Summary:

Constructed JG Height:	40.45	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	Drilling @ 12 in/min
20 ft	
30 ft	
40 ft	Drilling @ 12-14 in/min
	43.13' Hard Layer (Till?) (12:32)
	44.94' Bottom of hole (12:36)
50 ft	
60 ft	

Notes:

Target Depth (7-N-1, EL 142.81) - 43.40' bgs

Drilled with grout

Parsons sampled @ 35' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/24/09
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:	Partly Sunny
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.	Int-40
GS (EL)	188.06
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.06	EL
Depth to Bottom of ISS:	152.56	EL
Depth of Nozzle:	145.74	EL
Depth to TOR:	145.74	EL
Time Start:	16:20	
Time Finish:	16:51	
Drilling Duration:	0:31	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	145.74	EL
6 in/min Pull Rate to:	156.10	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	156.10	EL
Time Start:	16:53	
Time Finish:	17:17	
Grouting Duration:	0:24	hh:mm

Summary:

Constructed JG Height:	10.36	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
10 ft	20 in/min
20 ft	15-20 in/min
	15 in/min
30 ft	15 in/min
	35.5' Sands (4:41)
	36.77' Till
40 ft	
	42.32' TOR
50 ft	
60 ft	

Notes:

Supposed to be a full column but drilled through 35.5' of cementitious material. Consulted with WRSCompass and Parson's about grouting footage and agreed to grout up to a depth of 32.5' bgs (EL 155.56).

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/23/09
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:	Partly Cloudy
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	1.46		

Element ID No.	Int-41
GS (EL)	187.94
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	187.94	EL
Depth to Bottom of ISS:	152.06	EL
Depth of Nozzle:	143.55	EL
Depth to TOR:	143.60	EL
Time Start:	10:16	
Time Finish:	15:27	
Drilling Duration:	0:32	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	143.60	EL
6 in/min Pull Rate to:	153.36	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	153.35	EL
Time Start:	15:28	
Time Finish:	16:03	
Grouting Duration:	0:35	hh:mm

Summary:

Constructed JG Height:	9.75	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	35.88' Sands (3:19)
	38.21' Till
40 ft	
	44.34' TOR
50 ft	
60 ft	

Notes:

Partial thru 7h1, ISS Bot EL 152.3
MTA ISS Bot EL 152.06
Grout to EL 155.30

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/22/09
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:	Cloudy
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.	Int-42
GS (EL)	188.28
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.28	EL
Depth to Bottom of ISS:	152.32	EL
Depth of Nozzle:	143.73	EL
Depth to TOR:	144.10	EL
Time Start:	16:53	
Time Finish:	17:18	
Drilling Duration:	0:25	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	144.10	EL
6 in/min Pull Rate to:	156.85	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	156.85	EL
Time Start:	17:21	
Time Finish:	17:51	
Grouting Duration:	0:30	hh:mm

Summary:

Constructed JG Height:	12.75	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' ISS
10 ft	13.81' Hard Spot 3 in/min
20 ft	19.26' Hard spot 4 in/min
30 ft	35.96' Sands (5:11)
	37.03' Till
40 ft	44.18' TOR
50 ft	
60 ft	

Notes:

Partial thru 8g1, ISS Bot EL 151.48
MTA ISS Bot EL 152.32
Grout to EL 155.32

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/23/09
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:	Partly Sunny
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.	Int-43
GS (EL)	187.84
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	187.84	EL
Depth to Bottom of ISS:	151.53	EL
Depth of Nozzle:	143.88	EL
Depth to TOR:	143.89	EL
Time Start:	16:20	
Time Finish:	16:49	
Drilling Duration:	0:29	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	143.89	EL
6 in/min Pull Rate to:	154.61	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	154.61	EL
Time Start:	16:50	
Time Finish:	17:14	
Grouting Duration:	0:24	hh:mm

Summary:

Constructed JG Height:	10.72	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	36.31' Till (4:41)
40 ft	
	43.95' TOR
50 ft	
60 ft	

Notes:

Partial thru 8g1, ISS Bot EL 151.48
MTA ISS Bot EL 151.53
Grout to EL 154.53

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/24/09
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: Sunny
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.	Int-44
GS (EL)	187.96
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	187.96	EL
Depth to Bottom of ISS:	151.94	EL
Depth of Nozzle:	146.69	EL
Depth to TOR:	146.70	EL
Time Start:	10:17	
Time Finish:	10:45	
Drilling Duration:	0:28	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	146.70	EL
6 in/min Pull Rate to:	154.99	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	154.99	EL
Time Start:	10:46	
Time Finish:	11:05	
Grouting Duration:	0:19	hh:mm

Summary:

Constructed JG Height:	8.29	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	36.02' Sand (10:36)
40 ft	37.63' Till
	41.26' TOR
50 ft	
60 ft	

Notes:

Partial thru 8g1, ISS Bot EL 151.48
MTA Bot EL 151.94
Grout to EL 154.94

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/24/09
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:	Sunny
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.	Int-45
GS (EL)	188.21
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.21	EL
Depth to Bottom of ISS:	151.58	EL
Depth of Nozzle:	147.07	EL
Depth to TOR:	147.07	EL
Time Start:	11:15	
Time Finish:	12:14	
Drilling Duration:	0:25	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	147.07	EL
6 in/min Pull Rate to:	158.29	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	158.29	EL
Time Start:	12:16	
Time Finish:	12:39	
Grouting Duration:	0:23	hh:mm

Summary:

Constructed JG Height:	11.22	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	36.63' Sand (12:05)
40 ft	38.54' Till
	41.14' TOR
50 ft	
60 ft	

Notes:

Partial thru 8g2, ISS Bot EL 155.09
MTA ISS Bot EL 151.58
Grout to EL 158.09

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/24/09
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:	Partly Sunny
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.	Int-46
GS (EL)	188.22
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.22	EL
Depth to Bottom of ISS:	151.19	EL
Depth of Nozzle:	148.29	EL
Depth to TOR:	148.56	EL
Time Start:	14:44	
Time Finish:	15:07	
Drilling Duration:	0:23	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	148.56	EL
6 in/min Pull Rate to:	158.07	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	158.07	EL
Time Start:	15:08	
Time Finish:	15:29	
Grouting Duration:	0:21	hh:mm

Summary:

Constructed JG Height:	9.51	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	37.03' Till (3:02)
40 ft	39.66' TOR
50 ft	
60 ft	

Notes:

Partial thru 8g2, ISS Bot EL 155.09
MTA ISS Bot EL 151.48
Grout to EL 158.09

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/22/09
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:	Partly Sunny
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.	Int-47
GS (EL)	188.12
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.12	EL
Depth to Bottom of ISS:	158.98	EL
Depth of Nozzle:	145.44	EL
Depth to TOR:	145.71	EL
Time Start:	15:30	
Time Finish:	16:04	
Drilling Duration:	0:34	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	145.71	EL
6 in/min Pull Rate to:	152.59	EL
8 in/min Pull Rate to:	164.14	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	164.14	EL
Time Start:	16:05	
Time Finish:	16:40	
Grouting Duration:	0:35	hh:mm

Summary:

Constructed JG Height:	18.43	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	29.14' Sands (3:52)
40 ft	37.82' Till
50 ft	42.41' TOR
60 ft	

Notes:

Partial thru 8f4, ISS Bot EL 153.03 and 8g2, ISS Bot EL 155.09

MTA ISS Bot EL 158.98

Grout to EL 161.98

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/22/09
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:	Cloudy
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.	Int-48
GS (EL)	188.09
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.09	EL
Depth to Bottom of ISS:	155.78	EL
Depth of Nozzle:	144.59	EL
Depth to TOR:	144.63	EL
Time Start:	14:28	
Time Finish:	14:47	
Drilling Duration:	0:19	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	144.63	EL
6 in/min Pull Rate to:	153.58	EL
8 in/min Pull Rate to:	161.15	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	161.15	EL
Time Start:	14:48	
Time Finish:	15:20	
Grouting Duration:	0:32	hh:mm

Summary:

Constructed JG Height:	16.52	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	32.31' Sand (2:38)
	35.50' Till
40 ft	43.46' TOR
50 ft	
60 ft	

Notes:

Partial thru 8g2, ISS Bot EL 155.09
MTA ISS Bot EL 155.78
Grout to EL 158.78

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/22/09
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: Cloudy
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.	Int-49
GS (EL)	187.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	187.88	EL
Depth to Bottom of ISS:	152.00	EL
Depth of Nozzle:	143.29	EL
Depth to TOR:	143.30	EL
Time Start:	13:32	
Time Finish:	13:51	
Drilling Duration:	0:19	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	143.30	EL
6 in/min Pull Rate to:	148.18	EL
8 in/min Pull Rate to:	156.65	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	156.65	EL
Time Start:	13:52	
Time Finish:	14:17	
Grouting Duration:	0:25	hh:mm

Summary:

Constructed JG Height:	13.35	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	35.88' Sands (1:44)
40 ft	
	43.31' Till
	44.58' TOR
50 ft	
60 ft	

Notes:

Partial thru 8f3, ISS Bot EL 151.38
MTA ISS Bot EL 152.00
Grout to EL 155.00

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/22/09
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:	Cloudy
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.	Int-50
GS (EL)	187.63
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	187.63	EL
Depth to Bottom of ISS:	157.90	EL
Depth of Nozzle:	141.96	EL
Depth to TOR:	142.00	EL
Time Start:	12:13	
Time Finish:	12:33	
Drilling Duration:	0:20	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.00	EL
6 in/min Pull Rate to:	150.59	EL
8 in/min Pull Rate to:	165.19	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	165.19	EL
Time Start:	12:36	
Time Finish:	13:18	
Grouting Duration:	0:42	hh:mm

Summary:

Constructed JG Height:	23.19	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	29.73' Sands (12:25)
40 ft	39.50' Till
50 ft	45.63' TOR
60 ft	

Notes:

Partial thru 8f2, ISS Bot EL 161.68
MTA ISS Bot EL 157.90
Grout to EL 164.68

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/18/09
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

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

Element ID No.	Int-51
GS (EL)	188.37
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.37	EL
Bottom of ISS:	151.04	EL
Nozzle:	143.95	EL
TOR:	143.96	EL
Time Start:	14:04	
Time Finish:	14:43	
Drilling Duration:	0:39	h:mm

Grouting Parameters:

Bottom of JGC:	143.96	EL
6 in/min Pull Rate to:	150.94	EL
8 in/min Pull Rate to:	154.42	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	154.42	EL
Time Start:	14:44	
Time Finish:	15:07	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	10.46	ft

Depth	Notes
0 ft	Auger Column 8-F-3
10 ft	
20 ft	
30 ft	
	37.33' Sand (2:28pm)
40 ft	37.66' Till
	44.41' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-3, Bot EL 151.38
MTA Bot EL 151.04
Grout to EL 154.38

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/18/09
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

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

Element ID No.	Int-52
GS (EL)	187.31
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.31	EL
Bottom of ISS:	152.48	EL
Nozzle:	146.50	EL
TOR:	146.67	EL
Time Start:	10:30	
Time Finish:	10:59	
Drilling Duration:	0:29	h:mm

Grouting Parameters:

Bottom of JGC:	146.67	EL
6 in/min Pull Rate to:	152.60	EL
8 in/min Pull Rate to:	155.58	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	155.58	EL
Time Start:	11:10	
Time Finish:	11:32	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	8.91	ft

Depth	Notes
0 ft	Auger Column 8-F-3
10 ft	
20 ft	
30 ft	34.83' Sand (10:51am)
	36.74' Till
40 ft	40.64' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-3, Bot 151.38
MTA Bot EL 152.48
Grout to EL 155.48

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/18/09
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

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

Element ID No.	Int-53
GS (EL)	187.77
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.77	EL
Bottom of ISS:	152.97	EL
Nozzle:	145.94	EL
TOR:	145.95	EL
Time Start:	12:43	
Time Finish:	13:14	
Drilling Duration:	0:31	h:mm

Grouting Parameters:

Bottom of JGC:	145.95	EL
6 in/min Pull Rate to:	149.80	EL
8 in/min Pull Rate to:	156.27	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	156.27	EL
Time Start:	13:19	
Time Finish:	13:38	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	10.32	ft

Depth	Notes
0 ft	Auger Column 8-F-3
10 ft	
20 ft	
30 ft	34.80' Sand/Soil (1:04pm)
	38.02' Till
40 ft	41.82' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-3, Bot EL 151.38
MTA Bot EL 152.97
Grout to EL 155.97

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/17/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-54
GS (EL)	187.42
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	158.38	EL
Bottom:	158.38	EL
Time Start:	19:15	
Time Finish:	19:42	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	158.38	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.42	EL
12 in/min Pull Rate to:	184.43	EL
Top of JGC:	184.43	EL
Time Start:	19:44	
Time Finish:	20:15	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	26.05	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	29.04' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 158.55, 8-E-1

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/18/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-55
GS (EL)	188.38
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	152.32	EL
Bottom:	152.32	EL
Time Start:	20:09	
Time Finish:	20:24	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	152.32	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.41	EL
12 in/min Pull Rate to:	185.46	EL
Top of JGC:	185.46	EL
Time Start:	20:25	
Time Finish:	21:08	
Grouting Duration:	0:43	h:mm

Summary:

Constructed JG Height:	33.14	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
	36.06' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 152.4, 8-E-4

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/18/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-56
GS (EL)	188.29
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	152.27	EL
Bottom:	152.27	EL
Time Start:	21:21	
Time Finish:	21:27	
Drilling Duration:	0:06	h:mm

Grouting Parameters:

Bottom of JGC:	152.27	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.29	EL
12 in/min Pull Rate to:	185.30	EL
Top of JGC:	185.30	EL
Time Start:	21:28	
Time Finish:	22:10	
Grouting Duration:	0:42	h:mm

Summary:

Constructed JG Height:	33.03	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
	36.02' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 152.40, 8-E-4

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/17/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-57
GS (EL)	187.70
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	154.30	EL
Bottom:	154.30	EL
Time Start:	20:29	
Time Finish:	20:37	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Bottom of JGC:	154.30	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.70	EL
12 in/min Pull Rate to:	184.71	EL
Top of JGC:	184.71	EL
Time Start:	20:38	
Time Finish:	21:39	
Grouting Duration:	1:01	h:mm

Summary:

Constructed JG Height:	30.41	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	33.40' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 154.35, Bot EL 8-B-1

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/18/09
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

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

Element ID No.	Int-58
GS (EL)	188.27
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	150.57	EL
Bottom:	150.57	EL
Time Start:	16:20	
Time Finish:	16:39	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	150.57	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.34	EL
12 in/min Pull Rate to:	185.35	EL
Top of JGC:	185.35	EL
Time Start:	16:41	
Time Finish:	17:35	
Grouting Duration:	0:44	h:mm

Summary:

Constructed JG Height:	34.78	ft

Depth	Notes
0 ft	Sand/Soil with layers of cementitious material
10 ft	
20 ft	
30 ft	
	37.52' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 150.75, 8-A-3

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:	Cloudy, Snow
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	Int-59
Grout Mix:	Water	380	lit		GS (EL)	188.72
	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:	154.07	EL
Bottom:	154.07	EL
Time Start:	16:28	
Time Finish:	16:37	
Drilling Duration:	0:09	h:mm

Grouting Parameters:

Bottom of JGC:	154.07	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.72	EL
12 in/min Pull Rate to:	185.44	EL
Top of JGC:	185.44	EL
Time Start:	16:38	
Time Finish:	17:22	
Grouting Duration:	0:44	h:mm

Summary:

Constructed JG Height:	31.37	ft

Depth	Notes
0 ft	0' Sand/Soil with layers of cementitious material
10 ft	
20 ft	
30 ft	34.30' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 154.42 (8-B-4)

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:	Cool & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 60
Grout Mix:	Water	380	lit		GS (EL)	188.78
	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:	149.28	EL
TOR:	149.28	EL
Time Start:	9:20	
Time Finish:	10:00	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	149.28	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.78	EL
12 in/min Pull Rate to:	185.63	EL
Top of JGC:	185.63	EL
Time Start:	10:03	
Time Finish:	10:59	
Grouting Duration:	0:56	h:mm

Summary:

Constructed JG Height:	36.35	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	36' Sand/Soil (9:28 AM)
40 ft	39.5' TOR (9:30 AM)
	41' Final Depth (10:00 AM)
50 ft	
60 ft	

Notes:

NAPL returns @ Target depth; WRS Compass directed MTA to drill to bedrock

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 12/18/09
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

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

Element ID No.	Int-61
GS (EL)	188.56
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	150.70	EL
Bottom:	150.70	EL
Time Start:	17:54	
Time Finish:	18:02	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Bottom of JGC:	150.70	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.56	EL
12 in/min Pull Rate to:	185.57	EL
Top of JGC:	185.57	EL
Time Start:	18:05	
Time Finish:	18:53	
Grouting Duration:	0:48	h:mm

Summary:

Constructed JG Height:	34.87	ft

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	
	37.86' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 150.75, 8-A-3

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.	INT 62
Grout Mix:	Water	380	lit		GS (EL)	188.81
	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:	150.49	EL
Bottom:	148.99	EL
Time Start:	11:15	
Time Finish:	12:25	
Drilling Duration:	0:40	h:mm

Grouting Parameters:

Bottom of JGC:	150.49	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.81	EL
12 in/min Pull Rate to:	185.63	EL
Top of JGC:	185.63	EL
Time Start:	12:26	
Time Finish:	13:15	
Grouting Duration:	0:49	h:mm

Summary:

Constructed JG Height:	35.14	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	36.31' Sand/Soil (12:24 PM)
40 ft	39.82' Final Depth (12:25 PM)
50 ft	
60 ft	

Notes:

ISS Auger Column 4-XX-1 Bot El. 150.52

MTA ISS Bot El. 152.5

Drilled deeper to meet anticipated ISS Bot El.

Technican Signature: Jeff Ayres

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.	INT 63
Grout Mix:	Water	380	lit		GS (EL)	188.45
	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:	150.43	EL
Bottom:	148.93	EL
Time Start:	13:58	
Time Finish:	14:55	
Drilling Duration:	0:47	h:mm

Grouting Parameters:

Bottom of JGC:	150.43	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	188.45	EL
Time Start:	14:56	
Time Finish:	15:47	
Grouting Duration:	0:51	h:mm

Summary:

Constructed JG Height:	38.02	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	36.34' Sand/Soil (2:44 PM)
40 ft	39.52' Final Depth (2:54 PM)
50 ft	
60 ft	

Notes:

Target EL. 150.52 (4-XX-1)

Technican Signature: Jeff Ayres

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:	Cool & Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 64
Grout Mix:	Water	380	lit		GS (EL)	188.16
	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:	153.20	EL
Bottom:	153.20	EL
Time Start:	12:20	
Time Finish:	12:37	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Bottom of JGC:	153.20	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.16	EL
12 in/min Pull Rate to:	184.96	EL
Top of JGC:	184.96	EL
Time Start:	12:37	
Time Finish:	13:19	
Grouting Duration:	0:42	h:mm

Summary:

Constructed JG Height:	31.76	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	34.96' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target El. 154.97 (4-B-11)

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/18/10
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, Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	Int-65
Grout Mix:	Water	380	lit		GS (EL)	188.25
	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:	156.64	EL
Bottom:	156.64	EL
Time Start:	16:15	
Time Finish:	16:24	
Drilling Duration:	0:09	h:mm
Grouting Parameters:		
Bottom of JGC:	156.64	EL
6 in/min Pull Rate to:	157.57	EL
8 in/min Pull Rate to:	163.38	EL
12 in/min Pull Rate to:	185.07	EL
Top of JGC:	185.07	EL
Time Start:	16:25	
Time Finish:	17:02	
Grouting Duration:	0:37	h:mm
Summary:		
Constructed JG Height:	28.43	ft

Depth	Notes
0 ft	0' Sand/Soil
	Layers of cementitious material
10 ft	
20 ft	
30 ft	31.61' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 156.65 (8' Test 2)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/18/10
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.	Int-66
Grout Mix:	Water	380	lit		GS (EL)	187.76
	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:	157.08	EL
Bottom:	157.08	EL
Time Start:	19:26	
Time Finish:	19:36	
Drilling Duration:	0:10	h:mm

Grouting Parameters:		
Bottom of JGC:	157.08	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.76	EL
12 in/min Pull Rate to:	184.58	EL
Top of JGC:	184.58	EL
Time Start:	19:37	
Time Finish:	20:23	
Grouting Duration:	0:36	h:mm

Summary:		
Constructed JG Height:	27.50	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	16.00' Soft
20 ft	
30 ft	30.68' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 159.14 (8-B-7)

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
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 67
Grout Mix:	Water	380	lit		GS (EL)	188.66
	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:	157.16	EL
Bottom:	157.16	EL
Time Start:	7:58	
Time Finish:	8:11	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	157.16	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.63	EL
12 in/min Pull Rate to:	185.84	EL
Top of JGC:	185.84	EL
Time Start:	8:17	
Time Finish:	8:52	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	28.68	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	33' Final Depth (8:11 AM)
40 ft	
50 ft	
60 ft	

Notes:

Target EL 157.14 (8-B-6)

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/27/10
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.	Int-68
Grout Mix:	Water	380	lit		GS (EL)	188.78
	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:	157.23	EL
Bottom:	157.23	EL
Time Start:	19:51	
Time Finish:	20:15	
Drilling Duration:	0:17	h:mm
Grouting Parameters:		
Bottom of JGC:	157.23	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.78	EL
12 in/min Pull Rate to:	185.83	EL
Top of JGC:	185.83	EL
Time Start:	20:19	
Time Finish:	20:52	
Grouting Duration:	0:33	h:mm
Summary:		
Constructed JG Height:	28.60	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	31.55' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 157.23 (8-E-7)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/22/09
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

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

Element ID No.	Int-69
GS (EL)	188.89
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	157.10	EL
Bottom:	157.10	EL
Time Start:	16:12	
Time Finish:	16:26	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Bottom of JGC:	157.10	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.96	EL
12 in/min Pull Rate to:	186.00	EL
Top of JGC:	186.00	EL
Time Start:	16:27	
Time Finish:	17:02	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	28.90	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	30.64' Till
	31.79' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 157.20, 8-E-7

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-70
GS (EL)	188.83
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.83	EL
Bottom of ISS:	155.31	EL
Nozzle:	152.15	EL
TOR:	152.19	EL
Time Start:	11:31	
Time Finish:	11:55	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	152.19	EL
6 in/min Pull Rate to:	155.80	EL
8 in/min Pull Rate to:	161.27	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	161.27	EL
Time Start:	11:56	
Time Finish:	12:11	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	9.08	ft

Depth	Notes
0 ft	Auger Column 8-H-4
10 ft	
20 ft	
30 ft	33.52' Sand (11:46am)
	36.64' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-H-4, Bot EL 157.11
MTA Bot EL 155.31
Grout to EL 160.11

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-71
GS (EL)	188.94
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.94	EL
Bottom of ISS:	154.83	EL
Nozzle:	148.42	EL
TOR:	148.43	EL
Time Start:	12:28	
Time Finish:	12:50	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Bottom of JGC:	148.43	EL
6 in/min Pull Rate to:	151.87	EL
8 in/min Pull Rate to:	160.92	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	160.92	EL
Time Start:	12:51	
Time Finish:	13:13	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	12.49	ft

Depth	Notes
0 ft	Auger Column 8-H-4
10 ft	
20 ft	
30 ft	34.11' Sand (12:42pm)
	37.14' Till
40 ft	40.51' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-H-4, Bot EL 157.11
MTA Bot EL 154.83
Grout to EL 160.11

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-72
GS (EL)	188.84
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.84	EL
Bottom of ISS:	154.61	EL
Nozzle:	147.96	EL
TOR:	147.97	EL
Time Start:	13:39	
Time Finish:	14:12	
Drilling Duration:	0:33	h:mm

Grouting Parameters:

Bottom of JGC:	147.97	EL
6 in/min Pull Rate to:	151.64	EL
8 in/min Pull Rate to:	160.20	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	160.20	EL
Time Start:	14:13	
Time Finish:	14:35	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	12.23	ft

Depth	Notes
0 ft	Auger Column 8-H-4
10 ft	
20 ft	
30 ft	
	34.23' Sand (1:59pm)
	37.29' Till
40 ft	40.87' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-H-4, Bot EL 157.11
MTA Bot EL154.61
Grout to EL160.11

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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:	Cloudy, Cold
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	1.45		

Element ID No.	Int-73
GS (EL)	188.58
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.58	EL
Bottom of ISS:	166.19	EL
Nozzle:	149.54	EL
TOR:	149.55	EL
Time Start:	8:45	
Time Finish:	9:05	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	149.55	EL
6 in/min Pull Rate to:	151.89	EL
8 in/min Pull Rate to:	163.59	EL
12 in/min Pull Rate to:	169.29	EL
Top of JGC:	169.29	EL
Time Start:	9:06	
Time Finish:	9:37	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	19.74	ft

Depth	Notes
0 ft	ISS Auger Column 8-H-4
10 ft	
20 ft	
	22.39' Sand (8:56am)
30 ft	
	36.77' Till (8:59)
40 ft	39.03' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-H-4, Bot EL 157.11
MTA Bot EL 166.19
Grout to EL 169.19

Sampled at 35' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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:	Cloudy
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	1.46		

Element ID No.	Int-74
GS (EL)	188.8
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.80	EL
Bottom of ISS:	155.51	EL
Nozzle:	151.00	EL
TOR:	151.01	EL
Time Start:	9:59	
Time Finish:	10:22	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	151.01	EL
6 in/min Pull Rate to:	152.47	EL
8 in/min Pull Rate to:	160.19	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	160.19	EL
Time Start:	10:23	
Time Finish:	10:39	
Grouting Duration:	0:16	h:mm

Summary:

Constructed JG Height:	9.18	ft

Depth	Notes
0 ft	Auger Column 8-H-4
10 ft	
20 ft	
30 ft	
	33.29' Sand (10:15am)
	36.37' Till
	37.79' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-H-4, Bot EL 157.11
MTA Bot EL 155.51
Grout to EL 160.11

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-75
GS (EL)	189.6
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.60	EL
Bottom of ISS:	162.61	EL
Nozzle:	146.83	EL
TOR:	146.83	EL
Time Start:	20:46	
Time Finish:	21:16	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	146.83	EL
6 in/min Pull Rate to:	150.51	EL
8 in/min Pull Rate to:	167.16	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	167.16	EL
Time Start:	21:16	
Time Finish:	21:57	
Grouting Duration:	0:41	h:mm

Summary:

Constructed JG Height:	20.33	ft

Depth	Notes
0 ft	Auger Column 8-J-5
10 ft	
20 ft	
30 ft	26.99' Sand (9:09pm)
40 ft	39.16' Till
50 ft	42.77' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-5, Bot EL 162.43
MTA Bot EL 162.61
Grout to EL 165.61

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/2/09
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:	Partly Cloudy
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.	Int-76
GS (EL)	189.36
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.36	EL
Bottom of ISS:	160.86	EL
Nozzle:	144.94	EL
TOR:	144.95	EL
Time Start:	8:10	
Time Finish:	8:35	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	144.95	EL
6 in/min Pull Rate to:	152.69	EL
8 in/min Pull Rate to:	164.26	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.26	EL
Time Start:	8:36	
Time Finish:	9:11	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	19.31	ft

Depth	Notes
0 ft	Auger Column 8-J-6
10 ft	
20 ft	
30 ft	28.5' Sand (8:22am)
40 ft	36.87' Till
50 ft	44.41' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-6, Bot EL 160.96
MTA Bot EL 160.86
Grout to EL 163.96

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
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
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	1.46	

Element ID No.	Int-77
GS (EL)	187.13
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.13	EL
Bottom of ISS:	156.63	EL
Nozzle:	144.68	EL
TOR:	144.69	EL
Time Start:	20:28	
Time Finish:	21:12	
Drilling Duration:	0:44	h:mm

Grouting Parameters:

Bottom of JGC:	144.69	EL
6 in/min Pull Rate to:	153.76	EL
8 in/min Pull Rate to:	164.00	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.00	EL
Time Start:	21:14	
Time Finish:	21:51	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	19.31	ft

Depth	Notes
0 ft	Auger Column 8-J-6
10 ft	
20 ft	
30 ft	30.50' Sand (8:53pm)
	33.96' Till
40 ft	
	42.44' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-6, Bot EL 160.96
MTA Bot EL 156.63
Grout to EL 163.96

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/8/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-78
GS (EL)	187.07
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.07	EL
Bottom of ISS:	158.45	EL
Nozzle:	146.22	EL
TOR:	146.25	EL
Time Start:	9:19	
Time Finish:	9:56	
Drilling Duration:	0:37	h:mm

Grouting Parameters:

Bottom of JGC:	146.25	EL
6 in/min Pull Rate to:	149.04	EL
8 in/min Pull Rate to:	162.07	EL
12 in/min Pull Rate to:	165.32	EL
Top of JGC:	165.32	EL
Time Start:	9:58	
Time Finish:	10:30	
Grouting Duration:	0:32	h:mm

Summary:

Constructed JG Height:	19.07	ft

Depth	Notes
0 ft	Auger Column 8-J-7
10 ft	
20 ft	
30 ft	28.62' Sand (9:41am)
40 ft	38.11' Till (9:44am)
	40.82' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-7, Bot EL 162.21
MTA Bot EL 158.45
Grout to EL 165.21

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/8/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-79
GS (EL)	187.37
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.37	EL
Bottom of ISS:	161.72	EL
Nozzle:	146.62	EL
TOR:	146.63	EL
Time Start:	13:50	
Time Finish:	14:11	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	146.63	EL
6 in/min Pull Rate to:	150.26	EL
8 in/min Pull Rate to:	162.37	EL
12 in/min Pull Rate to:	165.29	EL
Top of JGC:	165.29	EL
Time Start:	14:11	
Time Finish:	14:42	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	18.66	ft

Depth	Notes
0 ft	Auger Column 8-J-7
10 ft	
20 ft	
	25.65' Sand (2:02pm)
30 ft	
	37.15' Till
40 ft	40.74' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-7, Bot EL 162.21
MTA Bot EL 161.72
Grout to EL 165.21

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/8/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-80
GS (EL)	188.04
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.04	EL
Bottom of ISS:	157.90	EL
Nozzle:	148.64	EL
TOR:	148.68	EL
Time Start:	20:38	
Time Finish:	21:11	
Drilling Duration:	0:33	h:mm

Grouting Parameters:

Bottom of JGC:	148.68	EL
6 in/min Pull Rate to:	155.33	EL
8 in/min Pull Rate to:	160.35	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	160.35	EL
Time Start:	21:12	
Time Finish:	21:34	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	11.67	ft

Depth	Notes
0 ft	Auger Column 8-K-5
10 ft	
20 ft	
30 ft	30.14' Sand (8:57pm)
	32.70' Till
40 ft	39.36' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-K-5, Bot EL 157.55
MTA Bot EL 157.90
Grout to EL 160.90

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/9/09
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, Raining
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	1.46	

Element ID No.	Int-81
GS (EL)	188.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	149.49	EL
TOR:	150.62	EL
Time Start:	13:52	
Time Finish:	14:20	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	149.49	EL
6 in/min Pull Rate to:	157.04	EL
8 in/min Pull Rate to:	163.04	EL
12 in/min Pull Rate to:	185.06	EL
Top of JGC:	185.06	EL
Time Start:	14:21	
Time Finish:	15:10	
Grouting Duration:	0:49	h:mm

Summary:

Constructed JG Height:	35.57	ft

Depth	Notes
0 ft	Cementitious Material
	4.78' Sand
10 ft	
20 ft	
	23.90' Cementitious Material
30 ft	30.99' Till (2:06pm)
	37.39' TOR
40 ft	38.52' Final Depth
50 ft	
60 ft	

Notes:

Rock encountered at EL 150.62. Anticipated was 149.50. Drilled to EL 149.49. Extra 5 minutes of drill

Sampled at 25' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-82
GS (EL)	189.76
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.76	EL
Bottom of ISS:	158.95	EL
Nozzle:	144.81	EL
TOR:	144.85	EL
Time Start:	17:24	
Time Finish:	17:44	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	144.85	EL
6 in/min Pull Rate to:	148.55	EL
8 in/min Pull Rate to:	165.58	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.58	EL
Time Start:	17:45	
Time Finish:	18:21	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	20.73	ft

Depth	Notes
0 ft	Auger Column 8-J-5
10 ft	
20 ft	
30 ft	30.81' Sand (5:38pm)
40 ft	40.52' Till
	44.91' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-5, Bot EL 162.43
MTA Bot EL 158.95
Grout to EL 165.43

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/1/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-83
GS (EL)	189.55
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.55	EL
Bottom of ISS:	162.66	EL
Nozzle:	144.15	EL
TOR:	144.35	EL
Time Start:	7:22	
Time Finish:	7:54	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	144.35	EL
6 in/min Pull Rate to:	150.70	EL
8 in/min Pull Rate to:	166.45	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	166.45	EL
Time Start:	7:55	
Time Finish:	8:30	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	22.10	ft

Depth	Notes
0 ft	Auger Column 8-J-5
10 ft	
20 ft	
	26.89' Sand (7:44am)
30 ft	
40 ft	
	42.08' Till
	45.20' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-5, Bot EL 162.43
MTA Bot EL 162.66
Grout to EL 165.66

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/2/09
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

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

Element ID No.	Int-84
GS (EL)	189.43
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.43	EL
Bottom of ISS:	155.62	EL
Nozzle:	143.53	EL
TOR:	143.57	EL
Time Start:	9:27	
Time Finish:	9:54	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	143.57	EL
6 in/min Pull Rate to:	151.96	EL
8 in/min Pull Rate to:	163.97	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	163.97	EL
Time Start:	10:00	
Time Finish:	10:37	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	20.40	ft

Depth	Notes
0 ft	Auger Column 8-J-6
10 ft	
20 ft	
30 ft	33.81' Hard Sands?? (9:43am)
	37.56' Till (9:45am)
40 ft	
	45.86' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-6, Bot EL 160.96
MTA Bot EL 155.62??
Grout to EL 163.96

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/8/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-85
GS (EL)	187.78
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.78	EL
Bottom of ISS:	160.59	EL
Nozzle:	145.65	EL
TOR:	145.66	EL
Time Start:	15:42	
Time Finish:	16:19	
Drilling Duration:	0:37	h:mm

Grouting Parameters:

Bottom of JGC:	145.66	EL
6 in/min Pull Rate to:	151.78	EL
8 in/min Pull Rate to:	163.98	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	163.98	EL
Time Start:	16:19	
Time Finish:	16:54	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	18.32	ft

Depth	Notes
0 ft	Auger Column 8-J-6
10 ft	
20 ft	
30 ft	27.19' Sand (3:58pm)
40 ft	36.08' Till (4:02pm)
50 ft	42.12' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-6, Bot EL 160.96
MTA Bot EL 160.59
Grout to EL 163.96

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/8/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-86
GS (EL)	187.68
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.68	EL
Bottom of ISS:	158.24	EL
Nozzle:	145.89	EL
TOR:	145.89	EL
Time Start:	17:10	
Time Finish:	17:43	
Drilling Duration:	0:33	h:mm

Grouting Parameters:

Bottom of JGC:	145.89	EL
6 in/min Pull Rate to:	153.42	EL
8 in/min Pull Rate to:	165.24	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.24	EL
Time Start:	17:44	
Time Finish:	18:19	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	19.35	ft

Depth	Notes
0 ft	Auger Column 8-J-6/8-J-7
10 ft	
20 ft	
30 ft	29.44' Sand (5:32pm)
	34.34' Till
40 ft	41.79' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-J-6 & 8-J-7, Bot EL 160.96 & 162.21
MTA Bot EL 158.24
Grout to EL 165.21

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/8/09
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

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

Element ID No.	Int-87
GS (EL)	188.23
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.23	EL
Bottom of ISS:	155.00	EL
Nozzle:	148.51	EL
TOR:	148.51	EL
Time Start:	19:18	
Time Finish:	19:52	
Drilling Duration:	0:34	h:mm

Grouting Parameters:

Bottom of JGC:	148.51	EL
6 in/min Pull Rate to:	151.19	EL
8 in/min Pull Rate to:	165.26	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.26	EL
Time Start:	19:53	
Time Finish:	20:23	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	16.75	ft

Depth	Notes
0 ft	Auger Column 8-J-7/8-K-5
10 ft	
20 ft	
30 ft	33.23' Sand (7:43pm)
	37.10' Till
40 ft	39.72' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Columns 8-J-7 & 8-K-5, Bot EL 162.21 & 157.35
MTA Bot EL 155.00
Grout to EL 165.21

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/9/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-88
GS (EL)	188.42
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.42	EL
Bottom of ISS:	155.65	EL
Nozzle:	146.16	EL
TOR:	146.20	EL
Time Start:	15:52	
Time Finish:	16:14	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Bottom of JGC:	146.20	EL
6 in/min Pull Rate to:	151.95	EL
8 in/min Pull Rate to:	160.57	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	160.57	EL
Time Start:	16:15	
Time Finish:	16:42	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	14.37	ft

Depth	Notes
0 ft	Auger Column 8-K-5
10 ft	
20 ft	
30 ft	32.77' Sand (4:08pm)
	36.54' Till
40 ft	42.22' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-K-5, Bot EL 157.55
MTA Bot EL 154.65
Grout to EL 160.55

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/9/09
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

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

Element ID No.	Int-89
GS (EL)	188.36
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.36	EL
Bottom of ISS:	157.27	EL
Nozzle:	147.12	EL
TOR:	147.13	EL
Time Start:	18:40	
Time Finish:	19:26	
Drilling Duration:	0:46	h:mm

Grouting Parameters:

Bottom of JGC:	147.13	EL
6 in/min Pull Rate to:	165.64	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.64	EL
Time Start:	19:27	
Time Finish:	20:03	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	18.51	ft

Depth	Notes
0 ft	Auger Column 8-K-5
10 ft	
20 ft	
30 ft	31.09' Till (6:59pm)
	Very Hard Layer - 1 in/min for ~1ft
40 ft	41.23' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-K-5, Bot EL 157.55
MTA Bot EL 157.27
Grout to EL 160.55

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/10/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.45		

Element ID No.	Int-90
GS (EL)	187.25
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.25	EL
Bottom of ISS:	154.22	EL
Nozzle:	146.14	EL
TOR:	146.18	EL
Time Start:	8:01	
Time Finish:	8:23	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Bottom of JGC:	146.18	EL
6 in/min Pull Rate to:	152.75	EL
8 in/min Pull Rate to:	157.26	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	157.26	EL
Time Start:	8:24	
Time Finish:	8:45	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	11.08	ft

Depth	Notes
0 ft	Auger Column 8-L-4
10 ft	
20 ft	
30 ft	33.03' Sand (8:18am)
	34.54' Till
40 ft	41.07' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-L-4, Bot EL 152.23
MTA Bot EL 154.22
Grout to EL 157.22

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/10/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-91
GS (EL)	187.5
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.50	EL
Bottom of ISS:	156.67	EL
Nozzle:	144.67	EL
TOR:	144.67	EL
Time Start:	11:37	
Time Finish:	12:04	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	144.67	EL
6 in/min Pull Rate to:	151.05	EL
8 in/min Pull Rate to:	159.81	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	159.81	EL
Time Start:	12:05	
Time Finish:	12:33	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	15.14	ft

Depth	Notes
0 ft	Auger Column 8-L-4
10 ft	
20 ft	
30 ft	30.83' Sand (11:59am)
	36.41' Till
40 ft	
	42.81' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-L-4, Bot EL 152.23
MTA Bot EL 156.67
Grout to EL 159.67

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/10/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-92
GS (EL)	187.86
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.86	EL
Bottom of ISS:	152.47	EL
Nozzle:	142.13	EL
TOR:	142.13	EL
Time Start:	9:11	
Time Finish:	9:39	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	142.13	EL
6 in/min Pull Rate to:	149.90	EL
8 in/min Pull Rate to:	155.71	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	155.71	EL
Time Start:	9:41	
Time Finish:	10:07	
Grouting Duration:	0:26	h:mm

Summary:

Constructed JG Height:	13.58	ft

Depth	Notes
0 ft	Auger Column 8-L-4
10 ft	
20 ft	
30 ft	
	35.39' Sand (9:30am)
40 ft	38.02' Till
	45.73' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-L-4, Bot EL 152.23
MTA Bot EL 152.47
Grout to EL 155.47

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/10/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-93
GS (EL)	188.08
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.08	EL
Bottom of ISS:	156.69	EL
Nozzle:	144.74	EL
TOR:	144.78	EL
Time Start:	12:49	
Time Finish:	13:21	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	144.78	EL
6 in/min Pull Rate to:	149.89	EL
8 in/min Pull Rate to:	159.95	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	159.95	EL
Time Start:	13:22	
Time Finish:	13:49	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	15.17	ft

Depth	Notes
0 ft	Auger Column 8-L-4/8-L-5
10 ft	
20 ft	
30 ft	31.39' Sand (1:14pm)
	38.24' Till
40 ft	
	43.30' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-L-4/8-L-5, Bot EL 152.23 & 151.56
MTA Bot EL 156.69
Grout to EL 159.69

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/10/09
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

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

Element ID No.	Int-94
GS (EL)	187.98
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.98	EL
Bottom of ISS:	155.61	EL
Nozzle:	144.96	EL
TOR:	144.98	EL
Time Start:	15:32	
Time Finish:	16:06	
Drilling Duration:	0:34	h:mm

Grouting Parameters:

Bottom of JGC:	144.98	EL
6 in/min Pull Rate to:	150.01	EL
8 in/min Pull Rate to:	158.75	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	158.75	EL
Time Start:	16:07	
Time Finish:	16:32	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	13.77	ft

Depth	Notes
0 ft	Auger Column 8-M-5
10 ft	
20 ft	
30 ft	32.37' Sand (3:58pm)
	38.23' Till
40 ft	43.00' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-M-5, Bot EL 155.72
MTA Bot EL 155.61
Grout to EL 158.72

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/10/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-95
GS (EL)	188.79
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.79	EL
Bottom of ISS:	154.38	EL
Nozzle:	146.14	EL
TOR:	146.18	EL
Time Start:	20:00	
Time Finish:	20:53	
Drilling Duration:	0:53	h:mm

Grouting Parameters:

Bottom of JGC:	146.18	EL
6 in/min Pull Rate to:	150.56	EL
8 in/min Pull Rate to:	157.43	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	157.43	EL
Time Start:	20:54	
Time Finish:	21:20	
Grouting Duration:	0:26	h:mm

Summary:

Constructed JG Height:	11.25	ft

Depth	Notes
0 ft	Auger Column 8-M-6
10 ft	
20 ft	
30 ft	
	34.41' Sand (8:38pm)
	38.31' Till
40 ft	
	42.61' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-M-6, Bot EL 153.85
MTA Bot EL 154.38
Grout to EL 157.38

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
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

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

Element ID No.	Int-96
GS (EL)	188.78
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.78	EL
Bottom of ISS:	153.82	EL
Nozzle:	146.19	EL
TOR:	146.24	EL
Time Start:	10:02	
Time Finish:	10:45	
Drilling Duration:	0:43	h:mm

Grouting Parameters:

Bottom of JGC:	146.24	EL
6 in/min Pull Rate to:	151.67	EL
8 in/min Pull Rate to:	156.89	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	156.89	EL
Time Start:	10:45	
Time Finish:	11:05	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	10.65	ft

Depth	Notes
0 ft	Auger Column 8-M-6
10 ft	
20 ft	
30 ft	
	34.96' Sand (10:31am)
	37.26' Till
40 ft	
	42.54' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS auger Column 8-M-6, Bot EL 153.85
MTA Bot EL 153.82
Grout to EL 156.85

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/10/09
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

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

Element ID No.	Int-97
GS (EL)	188.14
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.14	EL
Bottom of ISS:	150.78	EL
Nozzle:	144.50	EL
TOR:	144.53	EL
Time Start:	14:07	
Time Finish:	14:36	
Drilling Duration:	0:29	h:mm

Grouting Parameters:

Bottom of JGC:	144.53	EL
6 in/min Pull Rate to:	149.75	EL
8 in/min Pull Rate to:	160.78	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	160.78	EL
Time Start:	14:40	
Time Finish:	15:09	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	16.25	ft

Depth	Notes
0 ft	Auger Column 8-M-4/8-M-5
10 ft	
20 ft	
30 ft	
	37.36' Sand (2:30pm)
40 ft	38.41' Till
	43.61' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Columns 8-M-4/8-M-5, Bot EL 150.07/155.72
MTA Bot EL 150.78
Grout to EL 158.72

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-98
GS (EL)	188.23
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.23	EL
Bottom of ISS:	154.00	EL
Nozzle:	146.69	EL
TOR:	146.70	EL
Time Start:	16:49	
Time Finish:	17:50	
Drilling Duration:	1:01	h:mm

Grouting Parameters:

Bottom of JGC:	146.70	EL
6 in/min Pull Rate to:	152.00	EL
8 in/min Pull Rate to:	158.73	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	158.73	EL
Time Start:	17:52	
Time Finish:	18:15	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	12.03	ft

Depth	Notes
0 ft	Auger Column 8-M-5
10 ft	
20 ft	
30 ft	
	34.23' Sand (5:42pm)
	36.30' Till
40 ft	
	41.53' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column, Bot EL 155.72
MTA Bot EL 154.00
Grout to EL 158.72

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-99
GS (EL)	189.00
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	146.41	EL
TOR:	148.10	EL
Time Start:	8:33	
Time Finish:	9:13	
Drilling Duration:	0:40	h:mm

Grouting Parameters:

Bottom of JGC:	146.41	EL
6 in/min Pull Rate to:	155.00	EL
8 in/min Pull Rate to:	158.91	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	158.91	EL
Time Start:	9:13	
Time Finish:	9:36	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	12.50	ft

Depth	Notes
0 ft	Auger Column 8-M-5/8-M-6
10 ft	
20 ft	
30 ft	34.01' Sand (8:56pm)
40 ft	40.12' Till
	40.90' TOR (9:03am)
	42.59' Final Depth (9:13am)
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-M-5/8-M-6, Bot EL 155.72/153.85

MTA Bot EL 154.99

Grout to EL 158.72

Anticipated Rock EL 146.5. Encountered rock at EL 148.10. Drilled to EL 146.41. Extra 10 minutes of drilling and 3 minutes of grouting

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-100
GS (EL)	188.92
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.92	EL
Bottom of ISS:	155.09	EL
Nozzle:	146.50	EL
TOR:	147.82	EL
Time Start:	12:20	
Time Finish:	13:07	
Drilling Duration:	0:47	h:mm

Grouting Parameters:

Bottom of JGC:	146.50	EL
6 in/min Pull Rate to:	150.65	EL
8 in/min Pull Rate to:	158.21	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	158.21	EL
Time Start:	13:08	
Time Finish:	13:29	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	11.71	ft

Depth	Notes
0 ft	Auger Column 8-M-6
10 ft	
20 ft	
30 ft	33.83' Sand (12:43pm)
	38.24' Till
40 ft	41.10' TOR
	42.42' Final Depth
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-M-6, Bot EL 153.85

MTA Bot EL 155.09

Grout to EL 158.09

Encountered rock at EL 147.82. Anticpated rock at EL 146.5. Drilled to EL 146.45. Extra 6 minutes of drilling at 2 minutes of grouting

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
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

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

Element ID No.	Int-101
GS (EL)	188.85
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.85	EL
Bottom of ISS:	154.48	EL
Nozzle:	147.48	EL
TOR:	148.18	EL
Time Start:	14:16	
Time Finish:	14:57	
Drilling Duration:	0:41	h:mm

Grouting Parameters:

Bottom of JGC:	148.18	EL
6 in/min Pull Rate to:	152.00	EL
8 in/min Pull Rate to:	158.14	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	158.14	EL
Time Start:	14:58	
Time Finish:	15:17	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	9.96	ft

Depth	Notes
0 ft	Auger Column 8-M-6/7-P-8
10 ft	
20 ft	
30 ft	
	34.37' Sand (2:40pm)
	36.92' Till
40 ft	40.67' TOR
	41.37' Final Depth
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-M-6/7-P-8, Bot EL 153.85/155.01

MTA Bot EL 154.48

Grout to EL 158.01

Encountered rock at EL 148.18. Anticipated rock at EL 147.5. Drilled to EL 147.48. Extra 6 minutes of drilling

Drilled to EL 147.48, lifted nozzle back to 148.18 before beginning to grout

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.45	

Element ID No.	Int-102
GS (EL)	188.87
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.87	EL
Bottom of ISS:	159.87	EL
Nozzle:	146.55	EL
TOR:	146.56	EL
Time Start:	15:45	
Time Finish:	16:12	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	146.56	EL
6 in/min Pull Rate to:	151.44	EL
8 in/min Pull Rate to:	165.44	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.44	EL
Time Start:	16:14	
Time Finish:	16:48	
Grouting Duration:	0:34	h:mm

Summary:

Constructed JG Height:	18.88	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	29.00' Sand (4:05pm)
	37.50' Till (4:06pm)
40 ft	
	42.31' TOR
50 ft	
60 ft	

Notes:

Encountered cementitious material from ground surface to 29.00' bgs. Grouted up to 23.43' bgs and took mud balance samples to verify.

29' - 1.61; 26' - 1.48; 25' - 1.45

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/18/09
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:	Partly Cloudy
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.	Int-103
GS (EL)	188.72
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.72	EL
Bottom of ISS:	151.72	EL
Nozzle:	144.79	EL
TOR:	144.80	EL
Time Start:	15:59	
Time Finish:	16:40	
Drilling Duration:	0:41	h:mm

Grouting Parameters:

Bottom of JGC:	144.80	EL
6 in/min Pull Rate to:	155.42	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	155.42	EL
Time Start:	16:41	
Time Finish:	17:03	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	10.62	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 6-T-13
10 ft	
20 ft	
30 ft	
	37.00' Till (4:29)
40 ft	
	43.92' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 6-T-13, Bot EL 151.98
MTA Bot EL 151.72
Grout to EL 154.98

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/18/09
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.	Int-104
GS (EL)	188.71
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	144.62	EL
TOR:	144.99	EL
Time Start:	19:04	
Time Finish:	19:55	
Drilling Duration:	0:51	h:mm

Grouting Parameters:

Bottom of JGC:	144.99	EL
6 in/min Pull Rate to:	154.05	EL
8 in/min Pull Rate to:	164.17	EL
12 in/min Pull Rate to:	185.86	EL
Top of JGC:	185.86	EL
Time Start:	19:55	
Time Finish:	20:56	
Grouting Duration:	1:01	h:mm

Summary:

Constructed JG Height:	40.87	ft
Number of Overlaps:		

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/16/09
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	1.46		

Element ID No.	Int-105
GS (EL)	188.77
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	142.48	EL
TOR:	142.49	EL
Time Start:	13:11	
Time Finish:	13:36	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	142.49	EL
6 in/min Pull Rate to:	143.53	EL
8 in/min Pull Rate to:	163.84	EL
12 in/min Pull Rate to:	185.88	EL
Top of JGC:	185.88	EL
Time Start:	13:37	
Time Finish:	14:39	
Grouting Duration:	1:02	h:mm

Summary:

Constructed JG Height:	43.39	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
	15' Cementitious Material (1:14)
20 ft	
30 ft	
40 ft	39' Sand (1:30)
	45.26' Till
	46.28' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/17/09
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	1.46		

Element ID No.	Int-106
GS (EL)	188.96
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	140.40	EL
TOR:	140.41	EL
Time Start:	15:47	
Time Finish:	15:58	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	140.41	EL
6 in/min Pull Rate to:	144.73	EL
8 in/min Pull Rate to:	164.39	EL
12 in/min Pull Rate to:	186.07	EL
Top of JGC:	186.07	EL
Time Start:	15:59	
Time Finish:	17:42	
Grouting Duration:	1:10	h:mm

Summary:

Constructed JG Height:	45.66	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	44.25' Till
	48.55' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/18/09
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	1.46		

Element ID No.	Int-107
GS (EL)	189.13
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	142.44	EL
TOR:	142.48	EL
Time Start:	17:09	
Time Finish:	17:35	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Bottom of JGC:	142.48	EL
6 in/min Pull Rate to:	147.27	EL
8 in/min Pull Rate to:	164.13	EL
12 in/min Pull Rate to:	186.18	EL
Top of JGC:	186.18	EL
Time Start:	17:36	
Time Finish:	18:38	
Grouting Duration:	1:02	h:mm

Summary:

Constructed JG Height:	43.70	ft
Number of Overlaps:		

Depth	Notes
0 ft	Layers of cementitious material and Sand
10 ft	
20 ft	
30 ft	
40 ft	42.07' Till
	46.65' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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.	Int-108
GS (EL)	188.82
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	142.30	EL
TOR:	142.31	EL
Time Start:	12:00	
Time Finish:	12:20	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	142.31	EL
6 in/min Pull Rate to:	152.37	EL
8 in/min Pull Rate to:	163.82	EL
12 in/min Pull Rate to:	185.93	EL
Top of JGC:	185.93	EL
Time Start:	12:20	
Time Finish:	13:23	
Grouting Duration:	1:03	h:mm

Summary:

Constructed JG Height:	43.62	ft
Number of Overlaps:		

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/16/09
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	1.46		

Element ID No.	Int-109
GS (EL)	189.06
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.06	EL
Bottom of ISS:	148.49	EL
Nozzle:	141.29	EL
TOR:	141.39	EL
Time Start:	12:00	
Time Finish:	12:32	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	141.39	EL
6 in/min Pull Rate to:	151.56	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	151.56	EL
Time Start:	12:32	
Time Finish:	12:54	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	10.17	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-8
10 ft	
20 ft	
30 ft	
40 ft	40.57' Sand (12:24)
	42.97' Till
	47.67' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-8, Bot EL 148.17
MTA Bot EL 148.49
Grout to EL 151.49

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/17/09
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:	Cloudy
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	1.45		

Element ID No.	Int-110
GS (EL)	189.43
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.43	EL
Bottom of ISS:	148.10	EL
Nozzle:	141.30	EL
TOR:	141.31	EL
Time Start:	7:49	
Time Finish:	8:38	
Drilling Duration:	0:49	h:mm

Grouting Parameters:

Bottom of JGC:	141.31	EL
6 in/min Pull Rate to:	151.21	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	151.21	EL
Time Start:	8:41	
Time Finish:	9:01	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	9.90	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-8
10 ft	
20 ft	
30 ft	
40 ft	41.33' Sand (8:17)
	42.22' Till
	(43.5' 8:29)
50 ft	48.12' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-8, Bot EL 148.17
MTA Bot EL 148.10
Grout to EL 151.17

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/17/09
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.	Int-111
GS (EL)	189.76
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.76	EL
Bottom of ISS:	149.50	EL
Nozzle:	140.97	EL
TOR:	140.98	EL
Time Start:	13:41	
Time Finish:	14:23	
Drilling Duration:	0:42	h:mm

Grouting Parameters:

Bottom of JGC:	140.98	EL
6 in/min Pull Rate to:	152.59	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	152.59	EL
Time Start:	14:24	
Time Finish:	14:47	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	11.61	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-9
10 ft	
20 ft	
30 ft	
40 ft	40.26' Sand (2:16)
	41.53' Till
50 ft	48.78' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-9, Bot EL 149.04
MTA Bot EL 149.50
Grout to EL 152.50

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/17/09
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	1.46		

Element ID No.	Int-112
GS (EL)	189.11
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.11	EL
Bottom of ISS:	156.28	EL
Nozzle:	141.11	EL
TOR:	141.22	EL
Time Start:	18:35	
Time Finish:	19:04	
Drilling Duration:	0:29	h:mm

Grouting Parameters:

Bottom of JGC:	141.22	EL
6 in/min Pull Rate to:	147.33	EL
8 in/min Pull Rate to:	161.03	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	161.03	EL
Time Start:	19:05	
Time Finish:	19:42	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	19.81	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-10
10 ft	
20 ft	
30 ft	32.83' Sand (6:52)
40 ft	42.12' Till
50 ft	47.89' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-10, Bot EL 156.34
MTA Bot EL 156.28
Grout to EL 159.34

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/18/09
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.	Int-113
GS (EL)	189.09
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.09	EL
Bottom of ISS:	156.36	EL
Nozzle:	140.50	EL
TOR:	140.50	EL
Time Start:	13:49	
Time Finish:	14:26	
Drilling Duration:	0:37	h:mm

Grouting Parameters:

Bottom of JGC:	140.50	EL
6 in/min Pull Rate to:	149.33	EL
8 in/min Pull Rate to:	159.46	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	159.46	EL
Time Start:	14:27	
Time Finish:	15:03	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	18.96	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-10
10 ft	
20 ft	
30 ft	32.73' Sand (2:08)
40 ft	39.82' Till
50 ft	48.59' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-10, Bot EL 156.34
MTA Bot EL 156.36
Grout to EL 159.36

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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: Cloudy
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	1.46		

Element ID No.	Int-114
GS (EL)	189.11
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.11	EL
Bottom of ISS:	154.47	EL
Nozzle:	141.43	EL
TOR:	141.45	EL
Time Start:	10:30	
Time Finish:	11:06	
Drilling Duration:	0:36	h:mm

Grouting Parameters:

Bottom of JGC:	141.45	EL
6 in/min Pull Rate to:	148.66	EL
8 in/min Pull Rate to:	157.52	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	157.52	EL
Time Start:	11:08	
Time Finish:	11:37	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	16.07	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 6-U-14
10 ft	
20 ft	
30 ft	34.64' Sand (10:57)
40 ft	40.45' Till
50 ft	47.66' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 6-U-14, Bot EL 153.55
MTA Bot EL 154.47
Grout to EL 157.47

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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:	Light 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	1.46		

Element ID No.	Int-115
GS (EL)	188.85
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.85	EL
Bottom of ISS:	153.56	EL
Nozzle:	142.66	EL
TOR:	142.70	EL
Time Start:	16:09	
Time Finish:	16:39	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	142.70	EL
6 in/min Pull Rate to:	150.07	EL
8 in/min Pull Rate to:	158.34	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	158.34	EL
Time Start:	16:40	
Time Finish:	17:10	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	15.64	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 6-U-14
10 ft	
20 ft	
30 ft	
	35.29' Sand (4:30)
40 ft	40.28' Till
	46.15' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 6-U-14, Bot EL 153.55
MTA Bot EL 153.56
Grout to EL 156.56

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/20/09
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	1.46		

Element ID No.	Int-116
GS (EL)	188.65
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	145.54	EL
TOR:	145.65	EL
Time Start:	8:01	
Time Finish:	8:16	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	145.65	EL
6 in/min Pull Rate to:	154.96	EL
8 in/min Pull Rate to:	163.62	EL
12 in/min Pull Rate to:	185.70	EL
Top of JGC:	185.70	EL
Time Start:	8:21	
Time Finish:	9:22	
Grouting Duration:	1:01	h:mm

Summary:

Constructed JG Height:	40.05	ft

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	33.72' Till
40 ft	43.00' TOR
50 ft	
60 ft	

Notes:

Sampled at 30' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/20/09
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	1.46		

Element ID No.	Int-117
GS (EL)	188.86
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	147.72	EL
TOR:	147.72	EL
Time Start:	19:29	
Time Finish:	19:51	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Bottom of JGC:	147.72	EL
6 in/min Pull Rate to:	157.72	EL
8 in/min Pull Rate to:	163.93	EL
12 in/min Pull Rate to:	185.97	EL
Top of JGC:	185.97	EL
Time Start:	19:51	
Time Finish:	20:57	
Grouting Duration:	1:06	h:mm

Summary:

Constructed JG Height:	38.25	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	32.96' Till
40 ft	41.14' TOR
50 ft	
60 ft	

Notes:

Technican Signature: AEB/MM

MORETRENCH

DATE: 11/12/09
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:	Raining
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.	Int-118
GS (EL)	189.55
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	140.04	EL
TOR:	141.37	EL
Time Start:	12:28	
Time Finish:	12:53	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	140.04	EL
6 in/min Pull Rate to:	147.72	EL
8 in/min Pull Rate to:	164.58	EL
12 in/min Pull Rate to:	186.70	EL
Top of JGC:	186.70	EL
Time Start:	12:54	
Time Finish:	14:02	
Grouting Duration:	1:08	h:mm

Summary:

Constructed JG Height:	46.66	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
10 ft	13.64' Sand (12:34)
20 ft	
30 ft	
40 ft	42.64' Till
50 ft	48.18' TOR 49.51' Total Depth
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/16/09
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	1.46		

Element ID No.	Int-119
GS (EL)	189.29
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.29	EL
Bottom of ISS:	147.96	EL
Nozzle:	140.73	EL
TOR:	140.87	EL
Time Start:	10:36	
Time Finish:	11:21	
Drilling Duration:	0:41	h:mm

Grouting Parameters:

Bottom of JGC:	140.87	EL
6 in/min Pull Rate to:	151.23	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	151.23	EL
Time Start:	11:22	
Time Finish:	11:44	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	10.36	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-8
10 ft	
20 ft	
30 ft	
40 ft	41.33' Sand (11:07)
	43.07' Till
	48.42' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-8, Bot EL 148.17
MTA Bot EL 147.96
Grout to EL 151.17

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/16/09
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	1.46		

Element ID No.	Int-120
GS (EL)	189.27
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.27	EL
Bottom of ISS:	148.50	EL
Nozzle:	140.52	EL
TOR:	140.56	EL
Time Start:	20:49	
Time Finish:	21:24	
Drilling Duration:	0:35	h:mm

Grouting Parameters:

Bottom of JGC:	140.56	EL
6 in/min Pull Rate to:	150.06	EL
8 in/min Pull Rate to:	151.74	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	151.74	EL
Time Start:	21:25	
Time Finish:	21:48	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	11.18	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-9
10 ft	
20 ft	
30 ft	
40 ft	40.77' Sand/Soil (9:17)
	44.18' Till
50 ft	48.71' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-9, Bot EL 149.04
MTA Bot EL 148.5
Grout to EL 152.04

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/17/09
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	1.46		

Element ID No.	Int-121
GS (EL)	189.55
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.55	EL
Bottom of ISS:	149.04	EL
Nozzle:	140.27	EL
TOR:	140.28	EL
Time Start:	12:06	
Time Finish:	12:55	
Drilling Duration:	0:49	h:mm

Grouting Parameters:

Bottom of JGC:	140.28	EL
6 in/min Pull Rate to:	152.05	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	152.05	EL
Time Start:	12:56	
Time Finish:	13:21	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	11.77	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-9
10 ft	
20 ft	
30 ft	
40 ft	40.51' Till (12:36)
	43.53' (12:47)
50 ft	49.27' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-9, Bot EL 149.04
MTA Bot EL 149.04
Grout to EL 152.04

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/17/09
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.	Int-122
GS (EL)	189.11
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.45	EL
TOR:	138.46	EL
Time Start:	20:01	
Time Finish:	20:17	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	138.46	EL
6 in/min Pull Rate to:	147.05	EL
8 in/min Pull Rate to:	164.14	EL
12 in/min Pull Rate to:	186.14	EL
Top of JGC:	186.14	EL
Time Start:	20:18	
Time Finish:	21:27	
Grouting Duration:	1:09	h:mm

Summary:

Constructed JG Height:	47.68	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
10 ft	9.47' Sand/Soil
20 ft	
30 ft	
40 ft	43.63' Till
50 ft	50.65' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/18/09
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.	Int-123
GS (EL)	189.09
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.09	EL
Bottom of ISS:	156.36	EL
Nozzle:	140.04	EL
TOR:	140.09	EL
Time Start:	11:46	
Time Finish:	12:50	
Drilling Duration:	0:43	h:mm

Grouting Parameters:

Bottom of JGC:	140.09	EL
6 in/min Pull Rate to:	149.14	EL
8 in/min Pull Rate to:	159.40	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	159.40	EL
Time Start:	12:50	
Time Finish:	13:26	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	19.31	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-P-10
10 ft	
20 ft	
30 ft	32.73' Sand (12:03)
40 ft	40.05' Till
50 ft	49.00' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-P-10, Bot EL 156.34
MTA Bot EL 156.36
Grout to EL 159.36

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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	1.45		

Element ID No.	Int-124
GS (EL)	189.35
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	140.17	EL
TOR:	140.18	EL
Time Start:	7:47	
Time Finish:	8:20	
Drilling Duration:	0:33	h:mm

Grouting Parameters:

Bottom of JGC:	140.18	EL
6 in/min Pull Rate to:	150.66	EL
8 in/min Pull Rate to:	164.38	EL
12 in/min Pull Rate to:	186.43	EL
Top of JGC:	186.43	EL
Time Start:	8:21	
Time Finish:	9:30	
Grouting Duration:	1:09	h:mm

Summary:

Constructed JG Height:	46.25	ft
Number of Overlaps:		

Depth	Notes
0 ft	Sand/Soil with small layers of cementitious material
10 ft	
20 ft	
30 ft	
40 ft	38.73' Till
50 ft	49.17' TOR
60 ft	

Notes:

Sampled at 35' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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:	Light 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	1.46		

Element ID No.	Int-125
GS (EL)	189.04
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.04	EL
Bottom of ISS:	154.96	EL
Nozzle:	145.36	EL
TOR:	145.61	EL
Time Start:	17:23	
Time Finish:	18:13	
Drilling Duration:	0:44	h:mm

Grouting Parameters:

Bottom of JGC:	145.61	EL
6 in/min Pull Rate to:	159.55	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	159.55	EL
Time Start:	18:13	
Time Finish:	18:43	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	13.94	ft
Number of Overlaps:		

Depth	Notes
0 ft	Auger Column 6-V-23
10 ft	
20 ft	
30 ft	34.08' Till (5:45)
	36.18' Boulder?
40 ft	43.43' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 6-V-23, Bot EL 153.9
MTA Bot EL 154.96
Grout to EL 157.96

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/20/09
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	1.46		

Element ID No.	Int-126
GS (EL)	188.75
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.75	EL
Bottom of ISS:	179.27	EL
Nozzle:	146.10	EL
TOR:	146.12	EL
Time Start:	10:27	
Time Finish:	10:42	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	146.12	EL
6 in/min Pull Rate to:	152.53	EL
8 in/min Pull Rate to:	164.05	EL
12 in/min Pull Rate to:	182.78	EL
Top of JGC:	182.78	EL
Time Start:	10:43	
Time Finish:	11:37	
Grouting Duration:	0:54	h:mm

Summary:

Constructed JG Height:	36.66	ft

Depth	Notes
0 ft	ISS Auger Column N14
10 ft	9.48' Sand (10:29)
20 ft	
30 ft	
	36.22' Till (10:31)
40 ft	
	42.63' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column N14, Bot EL 156.79
MTA Bot EL 179.27
Grout to EL 182.27

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/23/09
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	1.46		

Element ID No.	Int-127
GS (EL)	189.08
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.08	EL
Bottom of ISS:	157.35	EL
Nozzle:	139.77	EL
TOR:	139.78	EL
Time Start:	7:51	
Time Finish:	8:40	
Drilling Duration:	0:49	h:mm

Grouting Parameters:

Bottom of JGC:	139.78	EL
6 in/min Pull Rate to:	148.99	EL
8 in/min Pull Rate to:	162.01	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	162.01	EL
Time Start:	8:40	
Time Finish:	9:37	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	22.23	ft

Depth	Notes
0 ft	Auger Column N14
10 ft	
20 ft	
30 ft	31.73' Sand (8:12am)
40 ft	
50 ft	49.30' TOR
60 ft	

Notes:

Partial thru ISS Auger Column N14, Bot EL 156.79
MTA Bot EL 157.35
Grout to EL 160.35

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 11/23/09
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:	Cloudy
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	1.46		

Element ID No.	Int-128
GS (EL)	189.13
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.13	EL
Bottom of ISS:	158.07	EL
Nozzle:	141.23	EL
TOR:	141.24	EL
Time Start:	11:13	
Time Finish:	12:47	
Drilling Duration:	1:19	h:mm

Grouting Parameters:

Bottom of JGC:	141.24	EL
6 in/min Pull Rate to:	152.58	EL
8 in/min Pull Rate to:	164.46	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.46	EL
Time Start:	12:48	
Time Finish:	13:36	
Grouting Duration:	0:48	h:mm

Summary:

Constructed JG Height:	23.22	ft

Depth	Notes
0 ft	Auger Column N14
10 ft	
20 ft	
30 ft	31.06' Sand (12:11pm)
	38.18' Till (12:12pm)
40 ft	
	47.89' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column N14, Bot EL 156.79
MTA Bot EL 158.07
Grout to EL 161.07

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/12/09
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:	Cloudy
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.	Int-129
GS (EL)	188.76
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.66	EL
TOR:	138.74	EL
Time Start:	7:42	
Time Finish:	8:09	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	138.74	EL
6 in/min Pull Rate to:	143.32	EL
8 in/min Pull Rate to:	163.83	EL
12 in/min Pull Rate to:	185.81	EL
Top of JGC:	185.81	EL
Time Start:	8:10	
Time Finish:	9:46	
Grouting Duration:	1:05	h:mm

Summary:

Constructed JG Height:	47.07	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
	45.65' Till
50 ft	50.02' TOR
60 ft	

Notes:

Slag silo malfunctioning causing some delays during grouting

Sampled at 40' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/12/09
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:	Raining
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.	Int-130
GS (EL)	188.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.88	EL
Bottom of ISS:	147.15	EL
Nozzle:	139.57	EL
TOR:	139.64	EL
Time Start:	10:57	
Time Finish:	11:32	
Drilling Duration:	0:35	h:mm

Grouting Parameters:

Bottom of JGC:	139.64	EL
6 in/min Pull Rate to:	152.03	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	152.03	EL
Time Start:	11:33	
Time Finish:	11:56	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	12.39	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-Q-10
10 ft	
20 ft	
30 ft	
40 ft	41.73' Till (11:20)
50 ft	49.24' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-Q-10, Bot EL 149.06
MTA Bot EL 147.15
Grout to EL 152.06

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/16/09
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	1.45		

Element ID No.	Int-131
GS (EL)	189.98
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.98	EL
Bottom of ISS:	148.76	EL
Nozzle:	138.44	EL
TOR:	138.71	EL
Time Start:	7:56	
Time Finish:	8:53	
Drilling Duration:	0:57	h:mm

Grouting Parameters:

Bottom of JGC:	138.71	EL
6 in/min Pull Rate to:	152.12	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	152.12	EL
Time Start:	8:56	
Time Finish:	9:24	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	13.41	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-Q-10
10 ft	
20 ft	
30 ft	
40 ft	41.22' Sand (8:25)
	41.99' Till
50 ft	51.27' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-Q-10, Bot EL 149.06
MTA Bot EL 148.76
Grout to EL 152.06

Sampled at 40' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/16/09
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.	Int-132
GS (EL)	189.71
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.71	EL
Bottom of ISS:	162.21	EL
Nozzle:	139.86	EL
TOR:	140.28	EL
Time Start:	15:24	
Time Finish:	15:56	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	140.28	EL
6 in/min Pull Rate to:	147.28	EL
8 in/min Pull Rate to:	166.65	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	166.65	EL
Time Start:	16:21	
Time Finish:	17:10	
Grouting Duration:	0:49	h:mm

Summary:

Constructed JG Height:	26.37	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 4-XZ-11
10 ft	
20 ft	
30 ft	27.50' Sand (3:40)
40 ft	42.5' Till
50 ft	49.43' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 4-XZ-11, Bot EL 163.29
MTA Bot EL 162.21
Grout to EL 166.29

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/16/09
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	1.46		

Element ID No.	Int-133
GS (EL)	189.6
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	139.83	EL
TOR:	139.90	EL
Time Start:	18:46	
Time Finish:	19:11	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	139.90	EL
6 in/min Pull Rate to:	144.91	EL
8 in/min Pull Rate to:	164.60	EL
12 in/min Pull Rate to:	186.75	EL
Top of JGC:	186.75	EL
Time Start:	19:11	
Time Finish:	20:38	
Grouting Duration:	1:27	h:mm

Summary:

Constructed JG Height:	46.85	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
	45.73' Till
50 ft	49.70' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/17/09
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:	Partly Cloudy
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	1.46		

Element ID No.	Int-134
GS (EL)	190
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	190.00	EL
Bottom of ISS:	149.70	EL
Nozzle:	138.16	EL
TOR:	138.20	EL
Time Start:	10:15	
Time Finish:	11:00	
Drilling Duration:	0:45	h:mm

Grouting Parameters:

Bottom of JGC:	138.20	EL
6 in/min Pull Rate to:	153.94	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	153.94	EL
Time Start:	11:01	
Time Finish:	11:33	
Grouting Duration:	0:32	h:mm

Summary:

Constructed JG Height:	15.74	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8' Test 4
10 ft	
20 ft	
30 ft	
40 ft	40.30' Till (10:42)
50 ft	51.80' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8' Test 4, Bot EL 150.94
MTA Bot EL 149.70
Grout to EL 153.94

Sampled at 45' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/18/09
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	1.46		

Element ID No.	Int-135
GS (EL)	189.43
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	137.56	EL
TOR:	137.57	EL
Time Start:	8:44	
Time Finish:	9:14	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	137.57	EL
6 in/min Pull Rate to:	151.05	EL
8 in/min Pull Rate to:	164.44	EL
12 in/min Pull Rate to:	186.51	EL
Top of JGC:	186.51	EL
Time Start:	9:17	
Time Finish:	10:31	
Grouting Duration:	1:14	h:mm

Summary:

Constructed JG Height:	48.94	ft
Number of Overlaps:		

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	38.58' Till
50 ft	51.86' TOR
60 ft	

Notes:

Sampled at 20' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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:	Light 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.	Int-136
GS (EL)	189.51
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.51	EL
Bottom of ISS:	153.80	EL
Nozzle:	146.83	EL
TOR:	147.36	EL
Time Start:	19:43	
Time Finish:	20:27	
Drilling Duration:	0:44	h:mm

Grouting Parameters:

Bottom of JGC:	147.36	EL
6 in/min Pull Rate to:	154.14	EL
8 in/min Pull Rate to:	162.87	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	162.87	EL
Time Start:	20:28	
Time Finish:	20:58	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	15.51	ft
Number of Overlaps:		

Depth	Notes
0 ft	Auger Column 6-V-23
10 ft	
20 ft	
30 ft	
	35.71' Sand/Soil (8:10)
	36.87' Till
40 ft	
	42.15' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 6-V-23, Bote EL 153.9
MTA Bot EL 153.8
Grout to EL 156.9

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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:	Light 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	1.46		

Element ID No.	Int-137
GS (EL)	189.46
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.46	EL
Bottom of ISS:	154.98	EL
Nozzle:	145.79	EL
TOR:	147.71	EL
Time Start:	21:10	
Time Finish:	22:01	
Drilling Duration:	0:51	h:mm

Grouting Parameters:

Bottom of JGC:	145.79	EL
6 in/min Pull Rate to:	149.27	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	149.27	EL
Time Start:	22:19	
Time Finish:	22:27	
Grouting Duration:	0:08	h:mm

Summary:

Constructed JG Height:	3.48	ft
Number of Overlaps:		

Depth	Notes
0 ft	Auger Column 7-U-17
10 ft	
20 ft	
30 ft	
	35.98' Till (9:42)
40 ft	
	41.75' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-U-17, Bot EL 154.35

MTA Bot EL 154.98

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/23/09
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:	Cloudy
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	1.46		

Element ID No.	Int-138
GS (EL)	189.42
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	148.08	EL
TOR:	148.16	EL
Time Start:	15:32	
Time Finish:	15:49	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	148.16	EL
6 in/min Pull Rate to:	157.23	EL
8 in/min Pull Rate to:	164.42	EL
12 in/min Pull Rate to:	186.57	EL
Top of JGC:	186.57	EL
Time Start:	15:50	
Time Finish:	16:44	
Grouting Duration:	0:54	h:mm

Summary:

Constructed JG Height:	38.41	ft

Depth	Notes
0 ft	0' Sand/Soil
	Small layers of cementitious material
10 ft	
20 ft	
30 ft	
	33.81' Till
40 ft	41.26' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/23/09
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:	Cloudy
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	1.46		

Element ID No.	Int-139
GS (EL)	189.37
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.37	EL
Bottom of ISS:	156.74	EL
Nozzle:	145.77	EL
TOR:	145.77	EL
Time Start:	14:00	
Time Finish:	14:54	
Drilling Duration:	0:54	h:mm

Grouting Parameters:

Bottom of JGC:	145.77	EL
6 in/min Pull Rate to:	152.10	EL
8 in/min Pull Rate to:	159.88	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	159.88	EL
Time Start:	14:55	
Time Finish:	15:20	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	14.11	ft

Depth	Notes
0 ft	Auger Column N14
10 ft	
20 ft	
30 ft	32.63' Sand (2:30pm)
	37.21' Till (2:34pm)
40 ft	
	43.60' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column N14, Bot EL 156.79
MTA Bot EL 156.74
Grout to EL 159.79

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 11/23/09
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:	Cloudy
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	1.46		

Element ID No.	Int-140
GS (EL)	189.55
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.55	EL
Bottom of ISS:	150.39	EL
Nozzle:	149.43	EL
TOR:	149.43	EL
Time Start:	17:16	
Time Finish:	17:54	
Drilling Duration:	0:38	h:mm

Grouting Parameters:

Bottom of JGC:	149.43	EL
6 in/min Pull Rate to:	152.31	EL
8 in/min Pull Rate to:	164.35	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.35	EL
Time Start:	17:55	
Time Finish:	18:22	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	14.92	ft

Depth	Notes
0 ft	Auger Column N14
10 ft	
20 ft	
30 ft	
40 ft	39.16' Sand/Soil (5:45pm)
	40.02' Till
	40.12' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/23/09
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:	Cloudy
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	1.46		

Element ID No.	Int-141
GS (EL)	189.65
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	149.46	EL
TOR:	149.60	EL
Time Start:	19:12	
Time Finish:	19:27	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	149.60	EL
6 in/min Pull Rate to:	158.55	EL
8 in/min Pull Rate to:	164.65	EL
12 in/min Pull Rate to:	186.66	EL
Top of JGC:	186.66	EL
Time Start:	19:28	
Time Finish:	20:21	
Grouting Duration:	0:53	h:mm

Summary:

Constructed JG Height:	37.06	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
	35.56' Till
40 ft	40.05' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/28/09
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: Cloudy
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	1.42	

Element ID No.	Int-142
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:	188.77	EL
Depth to Bottom of ISS:	142.19	EL
Depth of Nozzle:	132.04	EL
Depth to TOR:	132.12	EL
Time Start:	15:40	
Time Finish:	16:30	
Drilling Duration:	0:50	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.12	EL
6 in/min Pull Rate to:	145.23	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	145.23	EL
Time Start:	16:31	
Time Finish:	17:00	
Grouting Duration:	0:29	hh:mm

Summary:

Constructed JG Height:	13.11	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	46.58' Sand (4:18) 51.34' Till
60 ft	56.65' TOR

Notes:

Partial thru N5, ISS Bot EL 139.7
MTA ISS Bot EL 142.19
Grout to EL 145.19

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/29/09
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: Sunny
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	1.45		

Element ID No.	Int-143
GS (EL)	188.79
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.79	EL
Depth to Bottom of ISS:	151.61	EL
Depth of Nozzle:	134.82	EL
Depth to TOR:	134.83	EL
Time Start:	7:46	
Time Finish:	8:27	
Drilling Duration:	0:41	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.83	EL
6 in/min Pull Rate to:	154.77	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	154.77	EL
Time Start:	8:35	
Time Finish:	9:17	
Grouting Duration:	0:42	hh:mm

Summary:

Constructed JG Height:	19.94	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	37.18' Sand (8:15)
40 ft	
50 ft	48.61' Till
	53.96' TOR
60 ft	

Notes:

Partial column thru N6, ISS Bot EL 149.87
MTA ISS Bot EL 151.61
Grout to EL 154.61

Sampled at 36' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/29/09
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:	Sunny
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	1.52		

Element ID No.	Int-144
GS (EL)	188.53
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.53	EL
Depth to Bottom of ISS:	154.06	EL
Depth of Nozzle:	135.64	EL
Depth to TOR:	135.65	EL
Time Start:	10:17	
Time Finish:	10:42	
Drilling Duration:	0:25	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.65	EL
6 in/min Pull Rate to:	143.16	EL
8 in/min Pull Rate to:	157.17	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	157.17	EL
Time Start:	10:43	
Time Finish:	11:32	
Grouting Duration:	0:49	hh:mm

Summary:

Constructed JG Height:	21.52	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	34.47' Sand (10:32)
40 ft	
50 ft	50.35' Till
	52.88' TOR
60 ft	

Notes:

Drilled using a drag bit instead of a roller bit

Partial column thru N6, ISS Bot EL 149.87
MTA ISS Bot EL 154.06
Grout to EL 157.06

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/29/09
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:	Cloudy
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	1.43		

Element ID No.	Int-145
GS (EL)	189.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.01	EL
Depth to Bottom of ISS:	148.63	EL
Depth of Nozzle:	137.37	EL
Depth to TOR:	138.07	EL
Time Start:	14:13	
Time Finish:	14:50	
Drilling Duration:	0:37	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	138.07	EL
6 in/min Pull Rate to:	143.96	EL
8 in/min Pull Rate to:	152.92	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	152.92	EL
Time Start:	14:51	
Time Finish:	15:21	
Grouting Duration:	0:30	hh:mm

Summary:

Constructed JG Height:	14.85	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	40.38' Sand (2:41)
	46.09' Till
50 ft	50.94' TOR
60 ft	

Notes:

Partial thru N6, ISS Bot EL 149.87
MTA ISS Bot EL 148.63
Grout to EL 152.87

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/29/09
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:	Cloudy
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	1.44		

Element ID No.	Int-146
GS (EL)	188.46
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.46	EL
Depth to Bottom of ISS:	146.59	EL
Depth of Nozzle:	138.20	EL
Depth to TOR:	138.34	EL
Time Start:	15:33	
Time Finish:	16:03	
Drilling Duration:	0:30	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	138.34	EL
6 in/min Pull Rate to:	141.39	EL
8 in/min Pull Rate to:	149.71	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	149.71	EL
Time Start:	16:21	
Time Finish:	16:51	
Grouting Duration:	0:30	hh:mm

Summary:

Constructed JG Height:	11.37	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	41.87' Sand (3:58)
	48.97' Till
50 ft	50.12' TOR
60 ft	

Notes:

Partial thru N7, ISS Bot EL 145.1
MTA ISS Bot EL 146.59
Grout to EL 149.59

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/1/09
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:	Partly Cloudy
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.	Int-147
GS (EL)	189.42
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.42	EL
Depth to Bottom of ISS:	149.47	EL
Depth of Nozzle:	139.42	EL
Depth to TOR:	140.45	EL
Time Start:	7:48	
Time Finish:	8:28	
Drilling Duration:	0:40	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	140.45	EL
6 in/min Pull Rate to:	152.51	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	152.51	EL
Time Start:	8:31	
Time Finish:	8:59	
Grouting Duration:	0:28	hh:mm

Summary:

Constructed JG Height:	12.06	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	39.95' Sand (8:12)
	42.18' Till
	48.97' TOR
50 ft	
60 ft	

Notes:

Partial thru 8-O-5, ISS Bot EL 149.33
MTA ISS Bot EL 149.47
Grout to EL 152.47

Sampled at 36' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/1/09
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: Cloudy
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.	Int-148
GS (EL)	189.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.18	EL
Depth to Bottom of ISS:	150.80	EL
Depth of Nozzle:	137.87	EL
Depth to TOR:	137.94	EL
Time Start:	12:47	
Time Finish:	13:12	
Drilling Duration:	0:25	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	189.18	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	189.18	EL
Time Start:		
Time Finish:		
Grouting Duration:	0:00	hh:mm

Summary:

Constructed JG Height:	0.00	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	38.83' Sand (1:03)
50 ft	48.25' Till
60 ft	51.24' TOR

Notes:

Partial thru 8O5, ISS Bot EL 149.33

MTA ISS Bot EL 150.80

Grout to EL 153.80

1:14 - Trouble attaining pressure when beginning to grout. Pulled rods to find out lost 1 full rod, monitor, check valve and drill bit in hole. Abandoned hole and filled with grout.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/9/09
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:	Cool, 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	1.46		

Element ID No.	Int-148
GS (EL)	189.56
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	134.74	EL
TOR:	134.83	EL
Time Start:	10:12	
Time Finish:	10:54	
Drilling Duration:	0:42	h:mm

Grouting Parameters:

Bottom of JGC:	134.83	EL
6 in/min Pull Rate to:	147.18	EL
8 in/min Pull Rate to:	153.04	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	153.04	EL
Time Start:	10:55	
Time Finish:	11:31	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	18.21	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 8-N-3
10 ft	
20 ft	
30 ft	
40 ft	41.37' Sand (10:32)
	42.41' Till
50 ft	
	54.73' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-N-3, Bot EL 149.87
MTA Bot EL 148.19
Grout to EL 152.87

50' - 1.43; 45' - 1.69; 40' - 1.58

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/24/09
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:	Rainy
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.	Int-149
GS (EL)	189.38
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.38	EL
Depth to Bottom of ISS:	148.65	EL
Depth of Nozzle:	133.24	EL
Depth to TOR:	133.25	EL
Time Start:	13:53	
Time Finish:	14:29	
Drilling Duration:	0:36	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	133.25	EL
6 in/min Pull Rate to:	142.27	EL
8 in/min Pull Rate to:	152.70	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	152.70	EL
Time Start:	14:30	
Time Finish:	15:08	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	19.45	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column N6
10 ft	
20 ft	
30 ft	
40 ft	40.73' Sand (2:09pm)
50 ft	49.89' Till
60 ft	56.13' TOR

Notes:

Partial thru N6, ISS Bot EL 149.7
MTA ISS Bot EL 148.65
Grout to EL 152.7

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/26/09
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.	Int-150
GS (EL)	189.35
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.35	EL
Bottom of ISS:	159.04	EL
Nozzle:	132.95	EL
TOR:	132.99	EL
Time Start:	15:57	
Time Finish:	16:37	
Drilling Duration:	0:40	h:mm

Grouting Parameters:

Bottom of JGC:	132.99	EL
6 in/min Pull Rate to:	141.12	EL
8 in/min Pull Rate to:	162.15	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	162.15	EL
Time Start:	16:38	
Time Finish:	17:30	
Grouting Duration:	0:52	h:mm

Summary:

Constructed JG Height:	29.16	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column N6
10 ft	
20 ft	
30 ft	30.31' Sand (4:26pm)
40 ft	
50 ft	50.12' Till
	56.36' TOR
60 ft	

Notes:

Partial thru N6, ISS Bot EL 149.87
MTA ISS Bot EL 159.04
Grout to EL 162.04

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/27/09
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:	Cloudy, 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	1.45		

Element ID No.	Int-151
GS (EL)	189.29
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.29	EL
Bottom of ISS:	144.25	EL
Nozzle:	135.20	EL
TOR:	135.20	EL
Time Start:	8:21	
Time Finish:	9:00	
Drilling Duration:	0:39	h:mm

Grouting Parameters:

Bottom of JGC:	135.20	EL
6 in/min Pull Rate to:	143.77	EL
8 in/min Pull Rate to:	149.00	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	149.00	EL
Time Start:	9:00	
Time Finish:	9:29	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	13.80	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column N7
10 ft	
20 ft	
30 ft	
40 ft	45.04' Sand (8:51am)
	48.65' Till
50 ft	54.09' TOR
60 ft	

Notes:

Partial thru N7, ISS Bot EL145.10
MTA ISS Bot EL 144.25
Grout to EL 148.10

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 9/30/09
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:	Partly Sunny
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.	Int-152
GS (EL)	189.15
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.15	EL
Depth to Bottom of ISS:	148.04	EL
Depth of Nozzle:	138.63	EL
Depth to TOR:	138.80	EL
Time Start:	7:58	
Time Finish:	8:35	
Drilling Duration:	0:37	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	138.80	EL
6 in/min Pull Rate to:	151.16	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	151.16	EL
Time Start:	8:37	
Time Finish:	9:01	
Grouting Duration:	0:24	hh:mm

Summary:

Constructed JG Height:	12.36	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	41.11' Till (8:26)
50 ft	50.35' TOR
60 ft	

Notes:

Partial thru N7, ISS Bot EL 145.1
MTA ISS Bot EL 148.04
Grout to EL 151.04

Sampled at 36' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/12/09
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:	Cloudy
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.	Int-153
GS (EL)	189.45
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.45	EL
Depth to Bottom of ISS:	142.10	EL
Depth of Nozzle:	135.49	EL
Depth to TOR:	135.49	EL
Time Start:	7:51	
Time Finish:	8:53	
Drilling Duration:	0:45	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.49	EL
6 in/min Pull Rate to:	144.49	EL
8 in/min Pull Rate to:	164.45	EL
12 in/min Pull Rate to:	185.75	EL
Depth to Top of JGC:	185.75	EL
Time Start:	8:53	
Time Finish:	10:58	
Grouting Duration:	1:28	h:mm

Summary:

Constructed JG Height:	50.26	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	
	47.35' Sand (8:05am)
	46.46' Till
50 ft	
	53.96' TOR
60 ft	

Notes:

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/1/09
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:	Sunny
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.	Int-154
GS (EL)	189.57
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.57	EL
Depth to Bottom of ISS:	150.67	EL
Depth of Nozzle:	137.96	EL
Depth to TOR:	137.97	EL
Time Start:	10:19	
Time Finish:	11:39	
Drilling Duration:	0:39	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	137.97	EL
6 in/min Pull Rate to:	153.74	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	153.74	EL
Time Start:	11:40	
Time Finish:	12:12	
Grouting Duration:	0:32	hh:mm

Summary:

Constructed JG Height:	15.77	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	38.90' Sand (11:33)
	41.66' Till
50 ft	51.60' TOR
60 ft	

Notes:

Partial thru 8-O-5, ISSot EL 149.33
MTA ISS Bot EL 150.67
Grout to EL 153.67

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/2/09
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:	Sunny
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.	Int-155
GS (EL)	189.32
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.32	EL
Depth to Bottom of ISS:	149.24	EL
Depth of Nozzle:	139.94	EL
Depth to TOR:	139.95	EL
Time Start:	8:09	
Time Finish:	8:49	
Drilling Duration:	0:40	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	139.95	EL
6 in/min Pull Rate to:	152.34	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	152.34	EL
Time Start:	8:50	
Time Finish:	9:17	
Grouting Duration:	0:27	hh:mm

Summary:

Constructed JG Height:	12.39	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	40.08' Sand (8:32)
	42.41' Till
50 ft	49.37' TOR
60 ft	

Notes:

Partial thry 8O5, ISS Bot EL 149.33
MTA ISS Bot EL 149.26
Grout to EL 152.33

Sampled at 36' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/5/09
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:	Cool, 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.	Int-156
GS (EL)	189.42
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	141.03	EL
TOR:	141.09	EL
Time Start:	13:41	
Time Finish:	14:09	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	141.09	EL
6 in/min Pull Rate to:	148.64	EL
8 in/min Pull Rate to:	151.59	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	151.59	EL
Time Start:	14:10	
Time Finish:	14:30	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	10.50	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column 8-0-6
10 ft	
20 ft	
30 ft	
40 ft	41.5' Till (1:56pm)
50 ft	48.33' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-O-6, Bot EL 148.07
MTA ISS Bot EL 147.92
Grout to EL 151.07

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/5/09
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:	Cool, 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.	Int-157
GS (EL)	188.54
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	137.95	EL
TOR:	137.96	EL
Time Start:	11:42	
Time Finish:	12:16	
Drilling Duration:	0:34	h:mm

Grouting Parameters:

Bottom of JGC:	137.96	EL
6 in/min Pull Rate to:	146.11	EL
8 in/min Pull Rate to:	162.29	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	162.29	EL
Time Start:	12:17	
Time Finish:	13:00	
Grouting Duration:	0:43	h:mm

Summary:

Constructed JG Height:	24.33	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column 8p6
10 ft	
20 ft	
30 ft	29.77' Sand (12:08)
40 ft	42.94' Till
50 ft	50.58' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8p6, Bot EL 158.38
MTA Bot EL 158.77
Grout to EL 161.77

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/6/09
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:	Cool, 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	1.48		

Element ID No.	Int-158
GS (EL)	189.89
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.51	EL
TOR:	138.59	EL
Time Start:	7:21	
Time Finish:	8:07	
Drilling Duration:	0:46	h:mm

Grouting Parameters:

Bottom of JGC:	138.59	EL
6 in/min Pull Rate to:	151.90	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	151.90	EL
Time Start:	8:08	
Time Finish:	8:37	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	13.31	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column 8p7
10 ft	
20 ft	
30 ft	
40 ft	
	43.40' Till (7:57)
50 ft	51.30' TOR
60 ft	

Notes:

Partial thru Iss Auger Column 8-P-7, Bot EL 148.18
MTA Bot EL 146.49
Grout to EL 151.18

Sampled at 40' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/5/09
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:	Cool, Cloudy
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.	Int-159
GS (EL)	189.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.88	EL
Bottom of ISS:	158.43	EL
Nozzle:	137.10	EL
TOR:	137.10	EL
Time Start:	9:56	
Time Finish:	10:38	
Drilling Duration:	0:42	h:mm

Grouting Parameters:

Bottom of JGC:	137.10	EL
6 in/min Pull Rate to:	144.08	EL
8 in/min Pull Rate to:	162.03	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	162.03	EL
Time Start:	10:39	
Time Finish:	11:25	
Grouting Duration:	0:46	h:mm

Summary:

Constructed JG Height:	24.93	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column 8p6
10 ft	
20 ft	
30 ft	31.45' Hard Sands (10:26)
40 ft	
	46.12' Till
50 ft	
	52.78' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8p6, Bot EL 158.38
MTA ISS Bot EL 158.43
Grout to EL 161.43

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/5/09
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:	Cool, 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	1.45		

Element ID No.	Int-160
GS (EL)	189.54
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.69	EL
TOR:	138.76	EL
Time Start:	14:41	
Time Finish:	15:04	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	138.76	EL
6 in/min Pull Rate to:	143.94	EL
8 in/min Pull Rate to:	166.18	EL
12 in/min Pull Rate to:	186.72	EL
Top of JGC:	186.72	EL
Time Start:	15:05	
Time Finish:	16:16	
Grouting Duration:	1:11	h:mm

Summary:

Constructed JG Height:	47.96	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Residual Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	
	46.87' Till
50 ft	50.78' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/25/09
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:	Sunny
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.	Int-161
GS (EL)	188.5
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:	140.01	EL
Depth to TOR:	140.08	EL
Time Start:	14:46	
Time Finish:	15:03	
Drilling Duration:	0:17	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	140.08	EL
6 in/min Pull Rate to:	146.52	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.58	EL
Depth to Top of JGC:	185.58	EL
Time Start:	15:04	
Time Finish:	16:10	
Grouting Duration:	1:06	hh:mm

Summary:

Constructed JG Height:	45.50	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	7.5' Sand
10 ft	
20 ft	
30 ft	
40 ft	
	45.17' Till
50 ft	48.42' TOR
60 ft	

Notes:

Spoils Density

35' bgs - 1.7; 27' bgs - 1.62

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/25/09
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:	Sunny
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.	Int-162
GS (EL)	188.34
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.34	EL
Depth to Bottom of ISS:	147.57	EL
Depth of Nozzle:	142.70	EL
Depth to TOR:	142.71	EL
Time Start:	16:28	
Time Finish:	17:05	
Drilling Duration:	0:37	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.71	EL
6 in/min Pull Rate to:	153.79	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	153.79	EL
Time Start:	17:06	
Time Finish:	17:29	
Grouting Duration:	0:23	hh:mm

Summary:

Constructed JG Height:	11.08	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	30-40 in/min
10 ft	25-30 in/min
	15 in/min
20 ft	10-15 in/min
	10-15 in/min
30 ft	10 in/min
40 ft	40.77' Till (4:56)
	45.63' TOR
50 ft	
60 ft	

Notes:

Partial column thru 8m1, ISS Bot EL 150.62
MTA ISS Bot EL 147.57
Grout to EL 153.62

Spoils Density
44' bgs - 1.48; 40' bgs - 1.77'; 36' - 1.49

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/28/09
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:	Sunny
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	1.42		

Element ID No.	Int-163
GS (EL)	189.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.01	EL
Depth to Bottom of ISS:	152.44	EL
Depth of Nozzle:	142.32	EL
Depth to TOR:	142.37	EL
Time Start:	7:28	
Time Finish:	8:27	
Drilling Duration:	0:59	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.37	EL
6 in/min Pull Rate to:	155.45	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	155.45	EL
Time Start:	8:41	
Time Finish:	9:08	
Grouting Duration:	0:27	hh:mm

Summary:

Constructed JG Height:	13.08	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	36.57' Till (7:53)
40 ft	
	46.64' TOR
50 ft	
60 ft	

Notes:

Partial thru 8m1, ISS Bot EL 150.62
MTA ISS Bot EL 152.44
Grout to EL 155.44

Sampled at 36' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/28/09
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: Sunny
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	1.55	

Element ID No.	Int-164
GS (EL)	188.85
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.85	EL
Depth to Bottom of ISS:	150.28	EL
Depth of Nozzle:	140.75	EL
Depth to TOR:	140.81	EL
Time Start:	10:40	
Time Finish:	11:38	
Drilling Duration:	0:58	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	140.81	EL
6 in/min Pull Rate to:	154.53	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	154.53	EL
Time Start:	11:39	
Time Finish:	12:08	
Grouting Duration:	0:29	hh:mm

Summary:

Constructed JG Height:	13.72	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	38.57' Till (11:26)
50 ft	48.04' TOR
60 ft	

Notes:

Partial thru 8m2, ISS Bot EL 150.93
MTA ISS Bot EL 150.28
Grout to EL 153.93

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/26/09
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:	Cloudy
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	1.46		

Element ID No.	Int-165
GS (EL)	188.99
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.99	EL
Depth to Bottom of ISS:	152.68	EL
Depth of Nozzle:	142.17	EL
Depth to TOR:	142.17	EL
Time Start:	13:30	
Time Finish:	13:57	
Drilling Duration:	0:27	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.17	EL
6 in/min Pull Rate to:	157.26	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	157.26	EL
Time Start:	14:00	
Time Finish:	14:31	
Grouting Duration:	0:31	hh:mm

Summary:

Constructed JG Height:	15.09	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	36.31' Till (1:48)
40 ft	
50 ft	46.82' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/28/09
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:	Sunny
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	1.53		

Element ID No.	Int-166
GS (EL)	189.11
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	189.11	EL
Depth to Bottom of ISS:	149.74	EL
Depth of Nozzle:	142.42	EL
Depth to TOR:	142.43	EL
Time Start:	12:55	
Time Finish:	13:26	
Drilling Duration:	0:31	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.43	EL
6 in/min Pull Rate to:	154.10	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	154.10	EL
Time Start:	13:27	
Time Finish:	13:53	
Grouting Duration:	0:26	hh:mm

Summary:

Constructed JG Height:	11.67	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	39.37' Sand (1:19)
	42.87' Till
	46.68' TOR
50 ft	
60 ft	

Notes:

Partial thru 8m2, ISS Bot EL 150.93
MTA ISS Bot EL 150.74
Grout to EL 153.93

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/28/09
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:	Partly Cloudy
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	1.46		

Element ID No.	Int-167
GS (EL)	188.53
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	188.53	EL
Depth to Bottom of ISS:	151.47	EL
Depth of Nozzle:	142.63	EL
Depth to TOR:	142.64	EL
Time Start:	14:21	
Time Finish:	14:49	
Drilling Duration:	0:28	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	142.64	EL
6 in/min Pull Rate to:	154.47	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	154.47	EL
Time Start:	14:50	
Time Finish:	15:15	
Grouting Duration:	0:25	hh:mm

Summary:

Constructed JG Height:	11.83	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
	37.06' Sand (2:40)
40 ft	
	43.59' Till
	45.89' TOR
50 ft	
60 ft	

Notes:

Partial thru 8m2, ISS Bot EL 150.93
MTA ISS Bot EL 151.47
Grout to 154.47

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 9/25/09
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:	Sunny
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.	Int-168
GS (EL)	187.8
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	187.80	EL
Depth to Bottom of ISS:	145.95	EL
Depth of Nozzle:	143.41	EL
Depth to TOR:	143.42	EL
Time Start:	11:27	
Time Finish:	11:58	
Drilling Duration:	0:31	hh:mm

Grouting Parameters:

Depth to Bottom of JGC:	143.42	EL
6 in/min Pull Rate to:	150.86	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	150.86	EL
Time Start:	11:59	
Time Finish:	12:15	
Grouting Duration:	0:16	hh:mm

Summary:

Constructed JG Height:	7.44	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	10 in/min
10 ft	20 in/min
20 ft	30 in/min
	25 in/min
30 ft	10-15 in/min
40 ft	10-15 in/min
	41.85' Till (11:51)
	44.38' TOR
50 ft	
60 ft	

Notes:

Supposed to be partial column thru 4xy14 and be drilled to rock and grouted up to EL 184. Encountered cementitious material to EL 145.95'. Consulted with WRSCompass and Parson's and agreed to grout from rock to EL 148.95

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/18/10
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,Windy,Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	Int-174
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	1.48			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	164.75	EL
Nozzle:	160.74	EL
TOR:	160.86	EL
Time Start:	18:53	
Time Finish:	19:06	
Drilling Duration:	0:13	h:mm

Grouting Parameters:		
Bottom of JGC:	160.86	EL
6 in/min Pull Rate to:	163.61	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	166.78	EL
Top of JGC:	166.78	EL
Time Start:	19:07	
Time Finish:	19:16	
Grouting Duration:	0:09	h:mm

Summary:		
Constructed JG Height:	5.92	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-7
	Soft
10 ft	
20 ft	
	23.29' Till (7:00pm)
	27.18' 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 164.91

Technican Signature:

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	1.48		

Element ID No.	Int-174R
GS (EL)	186.68
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:	170.71	EL
Depth to Bottom:	169.21	EL
Time Start:	9:11	
Time Finish:	9:19	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	170.71	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
Depth to Top of JGC:	184.88	EL
Time Start:	9:20	
Time Finish:	9:53	
Grouting Duration:	0:14	h:mm

Summary:

Constructed JG Height:	14.17	ft
Number of Overlaps:	5	

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

Notes:

9:22am - Loss of air coming up borehole

9:26AM - Air nozzle may be plugged, pulling out of hole

9:41AM - Nozzle was plugged, cleared and back to jetting

Technican Signature: John Stanbury

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 & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 175
Grout Mix:	Water	380	lit		GS (EL)	187.74
	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:	180.24	EL
Nozzle:	160.64	EL
TOR:	160.64	EL
Time Start:	12:38	
Time Finish:	12:52	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Bottom of JGC:	160.64	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.77	EL
12 in/min Pull Rate to:	184.79	EL
Top of JGC:	184.79	EL
Time Start:	12:52	
Time Finish:	13:19	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	24.15	ft

Depth	Notes
0 ft	0' Cementitious Material
	7.5' Sand/Soil
10 ft	
20 ft	
	27.1' TOR (12:47 PM)
30 ft	28.60' Final Depth (12:52 PM)
40 ft	
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.	INT 176
Grout Mix:	Water	380	lit		GS (EL)	187.86
	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:	182.36	EL
Nozzle:	161.16	EL
TOR:	161.16	EL
Time Start:	10:28	
Time Finish:	10:41	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	161.16	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	184.91	EL
Top of JGC:	184.91	EL
Time Start:	10:42	
Time Finish:	11:18	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	23.75	ft

Depth	Notes
0 ft	0' Cementitious Material
	5.5' Sand/Soil
10 ft	
20 ft	
	26.70' TOR (10:35 AM)
30 ft	28.21' Final Depth (10:41 AM)
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/3/10
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.	Int-177
Grout Mix:	Water	380	lit		GS (EL)	188.45
	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:	170.18	EL
Nozzle:	165.45	EL
TOR:	165.46	EL
Time Start:	21:16	
Time Finish:	21:29	
Drilling Duration:	0:13	h:mm

Grouting Parameters:		
Bottom of JGC:	165.46	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	172.53	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	172.53	EL
Time Start:	21:30	
Time Finish:	21:42	
Grouting Duration:	0:12	h:mm

Summary:		
Constructed JG Height:	7.07	ft

Depth	Notes
0 ft	IS Auger Column 8-B-10
10 ft	
	18.27' Sand/Soil (9:23pm)
20 ft	
	22.99' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-B-10, Bot EL 167.37

MTA Bot EL 170.18

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/3/10
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		
Grout Mix:	Water	380	lit		Element ID No.	Int-178
	Cement	95	kg		GS (EL)	188.41
	Slag	285	kg		Rotation Speed (rpm)	12
	Specific Gravity	1.47			Grout Pressure (Bar)	400
					Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	169.98	EL
Nozzle:	162.03	EL
TOR:	165.65	EL
Time Start:	18:45	
Time Finish:	19:33	
Drilling Duration:	0:48	h:mm

Grouting Parameters:

Bottom of JGC:	165.65	EL
6 in/min Pull Rate to:	167.51	EL
8 in/min Pull Rate to:	168.49	EL
12 in/min Pull Rate to:	171.61	EL
Top of JGC:	171.61	EL
Time Start:	19:34	
Time Finish:	19:43	
Grouting Duration:	0:09	h:mm

Summary:

Constructed JG Height:	5.96	ft

Depth	Notes
0 ft	ISS Auger Column 8-A-9
10 ft	
	18.43' Hard Sand (7:04pm)
20 ft	
	22.76' TOR
	27.88' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-A-9, Bot EL 170.52

MTA Bot EL 169.98

Encountered bedrock at EL 165.65. Anticipated rock at EL 162. Drilled addition 3.5 feet of rock (23 minutes)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/3/10
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.	Int-179
Grout Mix:	Water	380	lit		GS (EL)	188.44
	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:	165.85	EL
TOR:	166.94	EL
Time Start:	15:19	
Time Finish:	15:40	
Drilling Duration:	0:21	h:mm

Grouting Parameters:		
Bottom of JGC:	166.94	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	169.44	EL
12 in/min Pull Rate to:	185.45	EL
Top of JGC:	185.45	EL
Time Start:	15:41	
Time Finish:	16:02	
Grouting Duration:	0:21	h:mm

Summary:		
Constructed JG Height:	18.51	ft

Depth	**Notes**
0 ft	0' Sand/Soil
10 ft	
20 ft	21.50' TOR
	24.09' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/3/10
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.	Int-180
Grout Mix:	Water	380	lit		GS (EL)	188.40
	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:	166.84	EL
TOR:	166.90	EL
Time Start:	16:23	
Time Finish:	16:56	
Drilling Duration:	0:33	h:mm

Grouting Parameters:		
Bottom of JGC:	166.90	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	171.11	EL
12 in/min Pull Rate to:	186.40	EL
Top of JGC:	186.40	EL
Time Start:	16:57	
Time Finish:	17:20	
Grouting Duration:	0:23	h:mm

Summary:		
Constructed JG Height:	19.50	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	21.50' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

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		
Grout Mix:	Water	380	lit		Element ID No.	INT 181
	Cement	95	kg		GS (EL)	187.60
	Slag	285	kg		Rotation Speed (rpm)	12
	Specific Gravity	1.47			Grout Pressure (Bar)	400
					Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	180.10	EL
Nozzle:	160.80	EL
TOR:	160.80	EL
Time Start:	8:26	
Time Finish:	8:55	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	160.80	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.67	EL
12 in/min Pull Rate to:	184.61	EL
Top of JGC:	184.61	EL
Time Start:	9:00	
Time Finish:	9:27	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	23.81	ft

Depth	Notes
0 ft	0' Cementitious Material
	7.5' Sand/Soil
10 ft	
20 ft	
	26.8' TOR (8:37 AM)
	30.5' Final Depth (8:55 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Anticipated Bedrock El. 157.5

MTA Bedrock El. 160.8

Jetted from 26.8' (Rock hit @ higher elevations of surrounding columns)

Technican Signature:

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.	INT 182
Grout Mix:	Water	380	lit		GS (EL)	187.67
	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:	181.17	EL
Nozzle:	165.87	EL
TOR:	165.87	EL
Time Start:	9:45	
Time Finish:	9:59	
Drilling Duration:	0:14	h:mm
Grouting Parameters:		
Bottom of JGC:	165.87	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	184.78	EL
Top of JGC:	184.78	EL
Time Start:	9:59	
Time Finish:	10:19	
Grouting Duration:	0:20	h:mm
Summary:		
Constructed JG Height:	18.91	ft

Depth	Notes
0 ft	0' Cementitious Material
	6.5' Sand/Soil
10 ft	
20 ft	
	21.8' TOR (9:54 AM)
	23.35' Final Depth (9:59 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/3/10
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.	Int-183
Grout Mix:	Water	380	lit		GS (EL)	188.46
	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:	170.42	EL
Nozzle:	166.35	EL
TOR:	167.01	EL
Time Start:	20:41	
Time Finish:	20:58	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	167.01	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	168.74	EL
12 in/min Pull Rate to:	172.48	EL
Top of JGC:	172.48	EL
Time Start:	20:59	
Time Finish:	21:07	
Grouting Duration:	0:08	h:mm

Summary:

Constructed JG Height:	5.47	ft

Depth	Notes
0 ft	ISS Auger Column 8-B-11
10 ft	
	18.04' Sand/Soil (8:49pm)
20 ft	21.45' TOR
	23.61' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-B-11, Bot EL 169.72

MTA Bot EL 170.42

Technican Signature:

MORETRENCH

DATE: 2/3/10
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.	Int-184
Grout Mix:	Water	380	lit		GS (EL)	188.54
	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:	181.04	EL
Nozzle:	166.30	EL
TOR:	167.28	EL
Time Start:	19:54	
Time Finish:	20:12	
Drilling Duration:	0:18	h:mm
Grouting Parameters:		
Bottom of JGC:	167.28	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	168.53	EL
12 in/min Pull Rate to:	185.59	EL
Top of JGC:	185.59	EL
Time Start:	20:13	
Time Finish:	20:34	
Grouting Duration:	0:21	h:mm
Summary:		
Constructed JG Height:	18.31	ft

Depth	Notes
0 ft	ISS Auger Column 4-XX-3
	7.50' Sand/Soil (7:59pm)
10 ft	
20 ft	21.26' TOR
	23.74' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 4-XX-3, Bot EL 183.39.

MTA Bot EL 181.04

Technican Signature:

MORETRENCH

DATE: 2/3/10
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.	INT 185
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	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	165.00	EL
TOR:	165.00	EL
Time Start:	13:44	
Time Finish:	14:13	
Drilling Duration:	0:29	h:mm
Grouting Parameters:		
Bottom of JGC:	165.00	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.11	EL
Top of JGC:	185.11	EL
Time Start:	14:15	
Time Finish:	14:36	
Grouting Duration:	0:21	h:mm
Summary:		
Constructed JG Height:	20.11	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	23.1' TOR (2:09 PM)
	24.6' Final Depth (2:13 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 2/3/10
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.	INT 186
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	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.72	EL
TOR:	162.72	EL
Time Start:	12:25	
Time Finish:	12:54	
Drilling Duration:	0:29	h:mm
Grouting Parameters:		
Bottom of JGC:	162.72	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.43	EL
Top of JGC:	185.43	EL
Time Start:	12:54	
Time Finish:	13:21	
Grouting Duration:	0:24	h:mm
Summary:		
Constructed JG Height:	22.71	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	25.70' TOR (12:50 PM)
	27.22' Final Depth (12:54 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/25/10
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:	Rainy & Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 187
Grout Mix:	Water	380	lit		GS (EL)	188.47
	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:	178.97	EL
Nozzle:	154.95	EL
TOR:	154.97	EL
Time Start:	9:15	
Time Finish:	9:27	
Drilling Duration:	0:12	h:mm
Grouting Parameters:		
Bottom of JGC:	154.97	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.47	EL
12 in/min Pull Rate to:	185.62	EL
Top of JGC:	185.62	EL
Time Start:	9:37	
Time Finish:	10:16	
Grouting Duration:	0:39	h:mm
Summary:		
Constructed JG Height:	30.65	ft

Depth	Notes
0 ft	0' Cementitious Material
	9.5' Sand/Soil
10 ft	
20 ft	
30 ft	
	33.5' TOR (9:24 AM)
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/25/10
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:	Rainy & Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 188
Grout Mix:	Water	380	lit		GS (EL)	188.45
	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:	182.95	EL
Nozzle:	154.62	EL
TOR:	154.63	EL
Time Start:	10:35	
Time Finish:	10:52	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	154.63	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.45	EL
12 in/min Pull Rate to:	185.53	EL
Top of JGC:	185.53	EL
Time Start:	10:54	
Time Finish:	11:31	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	30.90	ft

Depth	Notes
0 ft	0' Cementitious Material
	5.5' Sand/Soil
10 ft	
20 ft	
30 ft	
	33.82' TOR (10:47 AM)
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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.	INT 189
Grout Mix:	Water	380	lit		GS (EL)	188.48
	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:	183.98	EL
Nozzle:	156.46	EL
TOR:	156.48	EL
Time Start:	7:45	
Time Finish:	7:55	
Drilling Duration:	0:10	h:mm

Grouting Parameters:

Bottom of JGC:	156.48	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.59	EL
12 in/min Pull Rate to:	185.53	EL
Top of JGC:	185.53	EL
Time Start:	7:55	
Time Finish:	8:30	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	29.05	ft

Depth	Notes
0 ft	0' Cementitious Material
	4.5' Sand/Soil
10 ft	
20 ft	
30 ft	32' TOR (7:51 AM)
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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.	INT 190
Grout Mix:	Water	380	lit		GS (EL)	188.53
	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:	165.03	EL
Nozzle:	156.16	EL
TOR:	156.16	EL
Time Start:	8:46	
Time Finish:	9:04	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	156.16	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.50	EL
12 in/min Pull Rate to:	166.09	EL
Top of JGC:	166.09	EL
Time Start:	9:04	
Time Finish:	9:19	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	9.93	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-9
10 ft	
20 ft	
	23.5' Sand/Soil (8:59 AM)
30 ft	
	32.37' TOR (9:00 AM)
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-9 Bot El. 163.12

MTA ISS Bot El. 165.03

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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 & Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 191
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	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	165.61	EL
Nozzle:	156.05	EL
TOR:	156.07	EL
Time Start:	9:35	
Time Finish:	9:55	
Drilling Duration:	0:20	h:mm
Grouting Parameters:		
Bottom of JGC:	156.07	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.34	EL
12 in/min Pull Rate to:	166.75	EL
Top of JGC:	166.75	EL
Time Start:	9:56	
Time Finish:	10:11	
Grouting Duration:	0:15	h:mm
Summary:		
Constructed JG Height:	10.68	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-10
10 ft	
20 ft	
	22.76' Sand/Soil (9:49 AM)
30 ft	
	32.3' TOR (9:50 AM)
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-10 Bot El. 165.25

MTA ISS Bot El. 165.61

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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 & Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 192
Grout Mix:	Water	380	lit		GS (EL)	188.35
	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:	165.20	EL
Nozzle:	156.43	EL
TOR:	156.45	EL
Time Start:	11:17	
Time Finish:	11:35	
Drilling Duration:	0:18	h:mm
Grouting Parameters:		
Bottom of JGC:	156.45	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.38	EL
12 in/min Pull Rate to:	166.24	EL
Top of JGC:	166.24	EL
Time Start:	11:36	
Time Finish:	11:51	
Grouting Duration:	0:15	h:mm
Summary:		
Constructed JG Height:	9.79	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-10
10 ft	
20 ft	
	23.15' Sand/Soil (11:29 AM)
30 ft	
	31.9' TOR (11:31 AM)
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-10 Bot El. 165.25

MTA ISS Bot El. 165.2

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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.	INT 193
Grout Mix:	Water	380	lit		GS (EL)	188.36
	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:	167.11	EL
Nozzle:	157.82	EL
TOR:	157.86	EL
Time Start:	12:05	
Time Finish:	12:26	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	157.86	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.39	EL
12 in/min Pull Rate to:	168.15	EL
Top of JGC:	168.15	EL
Time Start:	12:27	
Time Finish:	12:42	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	10.29	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-11
10 ft	
20 ft	
	21.25' Sand/Soil (12:20 PM)
30 ft	
	30.5' TOR (12:21 PM)
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-11 Bot El. 167.5

MTA ISS Bot El. 168.61

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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.	INT 194
Grout Mix:	Water	380	lit		GS (EL)	188.36
	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:	167.73	EL
Nozzle:	159.62	EL
TOR:	159.63	EL
Time Start:	13:14	
Time Finish:	13:30	
Drilling Duration:	0:16	h:mm
Grouting Parameters:		
Bottom of JGC:	159.63	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.39	EL
12 in/min Pull Rate to:	173.33	EL
Top of JGC:	173.33	EL
Time Start:	13:30	
Time Finish:	13:47	
Grouting Duration:	0:17	h:mm
Summary:		
Constructed JG Height:	13.70	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-12
10 ft	
20 ft	20.63' Sand/Soil (1:25 PM)
	28.73' TOR (1:26 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-12 Bot El. 171.79

MTA ISS Bot El. 167.73

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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.	INT 195
Grout Mix:	Water	380	lit		GS (EL)	189.04
	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:	172.54	EL
Nozzle:	163.02	EL
TOR:	163.04	EL
Time Start:	13:57	
Time Finish:	14:08	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	163.04	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.07	EL
12 in/min Pull Rate to:	174.09	EL
Top of JGC:	174.09	EL
Time Start:	14:08	
Time Finish:	14:20	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	11.05	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-12
10 ft	
	16.5' Sand/Soil (2:03 PM)
20 ft	
	26' TOR (2:04 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-12 Bot El. 171.79

MTA ISS Bot El. 172.04

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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.	INT 196
Grout Mix:	Water	380	lit		GS (EL)	188.84
	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:	179.84	EL
Nozzle:	163.74	EL
TOR:	163.74	EL
Time Start:	14:31	
Time Finish:	14:44	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	163.74	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.49	EL
Top of JGC:	185.49	EL
Time Start:	14:44	
Time Finish:	15:07	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	21.75	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	9' Sand/Soil (2:37 PM)
20 ft	
	25.1' TOR (2:40 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/26/10
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.	Int-197
Grout Mix:	Water	380	lit		GS (EL)	189.09
	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:	189.09	EL
Bottom of ISS:	168.09	EL
Nozzle:	164.22	EL
TOR:	164.26	EL
Time Start:	15:52	
Time Finish:	16:28	
Drilling Duration:	0:36	h:mm

Grouting Parameters:		
Bottom of JGC:	164.26	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	173.34	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	173.34	EL
Time Start:	16:29	
Time Finish:	16:44	
Grouting Duration:	0:15	h:mm

Summary:		
Constructed JG Height:	9.08	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	21.00' Sand/Soil (4:19pm)
	24.83' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Specific Gravity checks:

24' - 1.53; 22' - 1.63; 20' - 1.68; 19' - 1.57; 18' - 1.46; 17' - 1.46

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/26/10
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.	Int-198
Grout Mix:	Water	380	lit		GS (EL)	188.53
	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:	156.79	EL
TOR:	156.83	EL
Time Start:	17:40	
Time Finish:	17:55	
Drilling Duration:	0:15	h:mm

Grouting Parameters:		
Bottom of JGC:	156.83	EL
6 in/min Pull Rate to:	160.53	EL
8 in/min Pull Rate to:	163.53	EL
12 in/min Pull Rate to:	185.64	EL
Top of JGC:	185.64	EL
Time Start:	17:59	
Time Finish:	18:34	
Grouting Duration:	0:35	h:mm

Summary:		
Constructed JG Height:	28.81	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	15.73' Sand/Soil
20 ft	
30 ft	29.98' Till
	31.70' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/26/10
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.	Int-199
Grout Mix:	Water	380	lit		GS (EL)	188.60
	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:	188.60	EL
Bottom of ISS:	163.60	EL
Nozzle:	157.20	EL
TOR:	157.24	EL
Time Start:	19:41	
Time Finish:	20:08	
Drilling Duration:	0:27	h:mm

Grouting Parameters:		
Bottom of JGC:	157.24	EL
6 in/min Pull Rate to:	159.96	EL
8 in/min Pull Rate to:	164.58	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.58	EL
Time Start:	20:09	
Time Finish:	20:20	
Grouting Duration:	0:11	h:mm

Summary:		
Constructed JG Height:	7.34	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-9
10 ft	
20 ft	
	25.00' Sand/Soil (8:00pm)
30 ft	31.36' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-C-9, Bot EL 163.12

MTA Bot EL 163.60

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/26/10
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.	Int-200
Grout Mix:	Water	380	lit		GS (EL)	188.64
	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:	188.64	EL
Bottom of ISS:	162.76	EL
Nozzle:	156.06	EL
TOR:	157.42	EL
Time Start:	20:32	
Time Finish:	21:04	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	157.42	EL
6 in/min Pull Rate to:	158.65	EL
8 in/min Pull Rate to:	165.74	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.74	EL
Time Start:	21:05	
Time Finish:	21:22	
Grouting Duration:	0:17	h:mm

Summary:

Constructed JG Height:	8.32	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-9
10 ft	
20 ft	
	25.88' Sand/Soil (8:48pm)
30 ft	31.22' TOR
	34.08' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-C-9, Bot EL 163.12

MTA Bot EL 162.76

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/27/10
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.	INT 201
Grout Mix:	Water	380	lit		GS (EL)	188.58
	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:	188.58	EL
Bottom of ISS:	165.08	EL
Nozzle:	156.62	EL
TOR:	156.68	EL
Time Start:	8:00	
Time Finish:	8:16	
Drilling Duration:	0:16	h:mm

Grouting Parameters:		
Bottom of JGC:	156.68	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.55	EL
12 in/min Pull Rate to:	167.08	EL
Top of JGC:	167.08	EL
Time Start:	8:27	
Time Finish:	8:43	
Grouting Duration:	0:16	h:mm

Summary:		
Constructed JG Height:	10.40	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-10
10 ft	
20 ft	
30 ft	23.5' Sand/Soil (8:10 AM)
40 ft	31.9' TOR (8:12 AM)
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-10 Bot El. 165.25

MTA ISS Bot El. 165.08

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/27/10
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.	INT 202
Grout Mix:	Water	380	lit		GS (EL)	188.52
	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:	188.52	EL
Bottom of ISS:	165.87	EL
Nozzle:	158.50	EL
TOR:	158.52	EL
Time Start:	8:53	
Time Finish:	9:08	
Drilling Duration:	0:15	h:mm

Grouting Parameters:		
Bottom of JGC:	158.52	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.49	EL
12 in/min Pull Rate to:	168.57	EL
Top of JGC:	168.57	EL
Time Start:	9:08	
Time Finish:	9:23	
Grouting Duration:	0:15	h:mm

Summary:		
Constructed JG Height:	10.05	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-11
10 ft	
20 ft	
	22.65' Sand/Soil (9:04 AM)
30 ft	30' TOR (9:05 AM)
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-11 Bot El. 167.50

MTA ISS Bot El. 165.87

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/27/10
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.	INT 203
Grout Mix:	Water	380	lit		GS (EL)	188.76
	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:	188.76	EL
Bottom of ISS:	166.46	EL
Nozzle:	160.00	EL
TOR:	160.06	EL
Time Start:	9:32	
Time Finish:	9:49	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	160.06	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.69	EL
12 in/min Pull Rate to:	168.78	EL
Top of JGC:	168.78	EL
Time Start:	9:49	
Time Finish:	10:00	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	8.72	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-11
10 ft	
20 ft	
	22.3' Sand/Soil (9:43 AM)
	28.7' TOR (9:43 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-11 Bot El. 167.5

MTA ISS Bot El. 166.46

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/27/10
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.	INT 204
Grout Mix:	Water	380	lit		GS (EL)	188.69
	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:	188.69	EL
Bottom of ISS:	168.19	EL
Nozzle:	162.34	EL
TOR:	162.35	EL
Time Start:	11:11	
Time Finish:	11:26	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	162.35	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.74	EL
12 in/min Pull Rate to:	173.04	EL
Top of JGC:	173.04	EL
Time Start:	11:27	
Time Finish:	11:38	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	10.69	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-12
10 ft	
20 ft	20.5' Sand/Soil (11:25 AM)
	26.34' TOR (11:26 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-12 Bot El. 171.79

MTA ISS Bot El. 168.19

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/27/10
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.	INT 205
Grout Mix:	Water	380	lit		GS (EL)	188.85
	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:	188.85	EL
Bottom of ISS:	162.65	EL
Nozzle:	162.65	EL
TOR:	162.65	EL
Time Start:	11:48	
Time Finish:	12:11	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	162.65	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.85	EL
12 in/min Pull Rate to:	172.87	EL
Top of JGC:	172.87	EL
Time Start:	12:12	
Time Finish:	12:23	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	10.22	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-12
10 ft	
20 ft	
	26.2' TOR (12:08 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

ISS Auger Column 8-C-12 Bot El. 171.79

MTA didn't break through ISS, only hit bedrock. Jetted from TOR to 1' into existing ISS Auger column 8-C-12 (El. 172.79

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/27/10
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.	INT 206
Grout Mix:	Water	380	lit		GS (EL)	188.94
	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:	162.92	EL
TOR:	162.94	EL
Time Start:	12:35	
Time Finish:	12:55	
Drilling Duration:	0:20	h:mm
Grouting Parameters:		
Bottom of JGC:	162.94	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.14	EL
12 in/min Pull Rate to:	186.02	EL
Top of JGC:	186.02	EL
Time Start:	12:55	
Time Finish:	13:20	
Grouting Duration:	0:25	h:mm
Summary:		
Constructed JG Height:	23.08	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	26' TOR (12:52 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/27/10
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.	INT 207
Grout Mix:	Water	380	lit		GS (EL)	189.22
	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:	162.42	EL
TOR:	162.42	EL
Time Start:	13:55	
Time Finish:	14:52	
Drilling Duration:	0:36	h:mm

Grouting Parameters:

Bottom of JGC:	162.42	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.01	EL
12 in/min Pull Rate to:	186.37	EL
Top of JGC:	186.37	EL
Time Start:	14:52	
Time Finish:	15:20	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	23.95	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	26.8' TOR (2:48 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Sampled at 20' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/27/10
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.	Int-208
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:	157.79	EL
Nozzle:	157.74	EL
TOR:	157.79	EL
Time Start:	15:42	
Time Finish:	16:10	
Drilling Duration:	0:28	h:mm
Grouting Parameters:		
Bottom of JGC:	157.79	EL
6 in/min Pull Rate to:	160.26	EL
8 in/min Pull Rate to:	164.69	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.69	EL
Time Start:	16:11	
Time Finish:	16:24	
Grouting Duration:	0:13	h:mm
Summary:		
Constructed JG Height:	6.90	ft

Depth	Notes
0 ft	ISS Auger Column 8-D-8
10 ft	
20 ft	
30 ft	30.82' TOR (4:05pm)
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-D-8, Bot EL 163.42

MTA did not noticeably ever break out of ISS Auger Column

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/27/10
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.	Int-209
Grout Mix:	Water	380	lit		GS (EL)	188.74
	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:	188.74	EL
Bottom of ISS:	160.96	EL
Nozzle:	157.97	EL
TOR:	158.40	EL
Time Start:	16:34	
Time Finish:	16:49	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	158.40	EL
6 in/min Pull Rate to:	160.89	EL
8 in/min Pull Rate to:	164.76	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.76	EL
Time Start:	16:50	
Time Finish:	17:02	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	6.36	ft

Depth	Notes
0 ft	ISS Auger Column 8-C-9
10 ft	
20 ft	
	27.78' Till (4:44pm)
30 ft	30.34' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-C-9, Bot EL 163.12

MTA did not noticeably ever break out of ISS

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/27/10
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.	Int-210
Grout Mix:	Water	380	lit		GS (EL)	188.72
	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:	188.72	EL
Bottom of ISS:	162.22	EL
Nozzle:	158.08	EL
TOR:	158.05	EL
Time Start:	17:11	
Time Finish:	17:29	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	158.05	EL
6 in/min Pull Rate to:	161.72	EL
8 in/min Pull Rate to:	164.70	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.70	EL
Time Start:	17:30	
Time Finish:	17:42	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	6.65	ft

Depth	Notes
0 ft	ISS Auger Column 8-D-9
10 ft	
20 ft	
	26.50' Sand/Soil (5:21pm)
30 ft	30.67' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-D-9, Bot EL 163.62

MTA Bot EL 162.22

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/22/10
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 & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT-211
Grout Mix:	Water	380	lit		GS (EL)	189.25
	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:	162.48	EL
TOR:	162.49	EL
Time Start:	11:30	
Time Finish:	11:39	
Drilling Duration:	0:09	h:mm
Grouting Parameters:		
Bottom of JGC:	162.49	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.48	EL
12 in/min Pull Rate to:	186.36	EL
Top of JGC:	186.36	EL
Time Start:	11:40	
Time Finish:	12:06	
Grouting Duration:	0:26	h:mm
Summary:		
Constructed JG Height:	23.87	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	26.76' TOR (11:35 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/22/10
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 & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT-212
Grout Mix:	Water	380	lit		GS (EL)	188.99
	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:	160.99	EL
TOR:	160.99	EL
Time Start:	12:22	
Time Finish:	12:47	
Drilling Duration:	0:17	h:mm
Grouting Parameters:		
Bottom of JGC:	160.99	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.99	EL
12 in/min Pull Rate to:	186.00	EL
Top of JGC:	186.00	EL
Time Start:	12:48	
Time Finish:	13:17	
Grouting Duration:	0:29	h:mm
Summary:		
Constructed JG Height:	25.01	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	28' TOR (12:44 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/22/10
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 & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT-213
Grout Mix:	Water	380	lit		GS (EL)	189.06
	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:	167.56	EL
Nozzle:	163.83	EL
TOR:	163.87	EL
Time Start:	14:02	
Time Finish:	14:32	
Drilling Duration:	0:30	h:mm
Grouting Parameters:		
Bottom of JGC:	163.87	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.16	EL
12 in/min Pull Rate to:	176.16	EL
Top of JGC:	176.16	EL
Time Start:	14:32	
Time Finish:	14:56	
Grouting Duration:	0:24	h:mm
Summary:		
Constructed JG Height:	12.29	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	21.5' Sand/Soil
	25.19' TOR (2:30 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Encountered cementitious material down to a depth of 21.5'

Grouted bottom 3' of cementitious material and measured S.G.

S.G. of spoils while drilling: 1.45

S.G. of spoils @ 18.5' (3' into ISS): 1.57

Tremie grouted from 14.1' to ground surface

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/21/10
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.	Int-214
Grout Mix:	Water	380	lit		GS (EL)	188.57
	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:	157.36	EL
TOR:	157.36	EL
Time Start:	15:23	
Time Finish:	15:34	
Drilling Duration:	0:11	h:mm

Grouting Parameters:		
Bottom of JGC:	157.36	EL
6 in/min Pull Rate to:	158.75	EL
8 in/min Pull Rate to:	163.57	EL
12 in/min Pull Rate to:	185.07	EL
Top of JGC:	185.07	EL
Time Start:	15:35	
Time Finish:	16:11	
Grouting Duration:	0:36	h:mm

Summary:		
Constructed JG Height:	27.71	ft

Depth	**Notes**
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	31.21' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/21/10
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.	Int-215
Grout Mix:	Water	380	lit		GS (EL)	188.48
	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:	188.48	EL
Bottom of ISS:	161.06	EL
Nozzle:	157.00	EL
TOR:	157.52	EL
Time Start:	16:26	
Time Finish:	16:41	
Drilling Duration:	0:15	h:mm

Grouting Parameters:		
Bottom of JGC:	157.52	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.55	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	163.55	EL
Time Start:	16:44	
Time Finish:	16:54	
Grouting Duration:	0:10	h:mm

Summary:

Constructed JG Height:	6.03	ft

Depth	Notes
0 ft	ISS Auger Column 8-E-9
10 ft	
20 ft	
30 ft	27.42' Sand/Soil (4:37pm)
	30.96' TOR
	32.98' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-E-9, Bot EL 162.71

MTA Bot EL 161.06

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/21/10
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.	Int-216
Grout Mix:	Water	380	lit		GS (EL)	188.56
	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:	188.56	EL
Bottom of ISS:	161.06	EL
Nozzle:	157.70	EL
TOR:	157.70	EL
Time Start:	17:11	
Time Finish:	17:28	
Drilling Duration:	0:17	h:mm

Grouting Parameters:		
Bottom of JGC:	157.70	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.59	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	163.59	EL
Time Start:	17:29	
Time Finish:	17:39	
Grouting Duration:	0:10	h:mm

Summary:

Constructed JG Height: 5.89 ft

Depth	Notes
0 ft	ISS Auger Column 8-E-9
10 ft	
20 ft	
	27.50' Sand/Soil (5:23pm)
30 ft	30.86' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-E-9, Bot EL 162.71

MTA Bot EL 161.06

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/21/10
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.	Int-217
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	1.46			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	188.61	EL
Bottom of ISS:	160.61	EL
Nozzle:	158.30	EL
TOR:	158.31	EL
Time Start:	18:51	
Time Finish:	19:07	
Drilling Duration:	0:16	h:mm
Grouting Parameters:		
Bottom of JGC:	158.31	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.68	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	163.68	EL
Time Start:	19:08	
Time Finish:	19:17	
Grouting Duration:	0:09	h:mm
Summary:		
Constructed JG Height:	5.37	ft

Depth	Notes
0 ft	ISS Auger Column 8-D-9
10 ft	
20 ft	
	28.00' Sand/Soil (7:02pm)
30 ft	30.30' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-D-9, Bot EL 163.62

MTA Bot EL 160.61

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/21/10
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.	Int-218
Grout Mix:	Water	380	lit		GS (EL)	188.78
	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:	188.78	EL
Bottom of ISS:	164.15	EL
Nozzle:	159.06	EL
TOR:	159.16	EL
Time Start:	19:28	
Time Finish:	19:59	
Drilling Duration:	0:31	h:mm

Grouting Parameters:

Bottom of JGC:	159.16	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.78	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.78	EL
Time Start:	19:57	
Time Finish:	20:08	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	6.62	ft

Depth	Notes
0 ft	ISS Auger Column 8-D-10
10 ft	
20 ft	
	24.63' Sand/Soil (7:51pm)
30 ft	29.62' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-D-10, Bot EL 165.5

MTA Bot EL 164.15

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/21/10
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.	Int-219
Grout Mix:	Water	380	lit		GS (EL)	188.76
	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:	188.76	EL
Bottom of ISS:	159.58	EL
Nozzle:	159.56	EL
TOR:	159.58	EL
Time Start:	20:18	
Time Finish:	20:39	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	159.58	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.78	EL
12 in/min Pull Rate to:	167.99	EL
Top of JGC:	167.99	EL
Time Start:	20:41	
Time Finish:	20:53	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	8.41	ft

Depth	Notes
0 ft	ISS Auger Column 8-E-11
10 ft	
20 ft	
30 ft	29.18' TOR (8:35pm)
40 ft	
50 ft	
60 ft	

Notes:

Did not noticeably ever break out of Auger Column

Partial thru ISS Auger Column 8-E-11, Bot EL 165.87

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/22/10
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 & Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT-220
Grout Mix:	Water	380	lit		GS (EL)	188.75
	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:	163.03	EL
TOR:	163.04	EL
Time Start:	8:14	
Time Finish:	8:30	
Drilling Duration:	0:09	h:mm
Grouting Parameters:		
Bottom of JGC:	163.04	EL
6 in/min Pull Rate to:	165.95	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.80	EL
Top of JGC:	185.80	EL
Time Start:	8:31	
Time Finish:	9:07	
Grouting Duration:	0:29	h:mm
Summary:		
Constructed JG Height:	22.76	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	22.86' Till
	25.71' TOR (8:28 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/22/10
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 & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT-221
Grout Mix:	Water	380	lit		GS (EL)	188.86
	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:	161.90	EL
TOR:	161.90	EL
Time Start:	9:21	
Time Finish:	9:32	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	161.90	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.96	EL
12 in/min Pull Rate to:	185.74	EL
Top of JGC:	185.74	EL
Time Start:	9:32	
Time Finish:	9:59	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	23.84	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	26.96' TOR (9:27 AM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 12/22/09
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

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

Element ID No.	Int-222
GS (EL)	189.25
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	158.61	EL
TOR:	158.61	EL
Time Start:	17:16	
Time Finish:	17:37	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	158.61	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.28	EL
12 in/min Pull Rate to:	186.30	EL
Top of JGC:	186.30	EL
Time Start:	17:38	
Time Finish:	18:58	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	27.69	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	29.91' Till
	30.64' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/22/09
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

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

Element ID No.	Int-223
GS (EL)	189.56
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.56	EL
Bottom of ISS:	162.72	EL
Nozzle:	155.34	EL
TOR:	155.35	EL
Time Start:	20:03	
Time Finish:	20:22	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	155.35	EL
6 in/min Pull Rate to:	159.02	EL
8 in/min Pull Rate to:	165.77	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.77	EL
Time Start:	20:23	
Time Finish:	20:44	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	10.42	ft

Depth	Notes
0 ft	Auger Column 8-E-9
10 ft	
20 ft	
	26.84' Sand (8:19pm)
30 ft	30.64' Till
	34.21' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-E-9, Bot EL 162.71
MTA Bot EL 162.72
Grout to EL 165.72

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-224
GS (EL)	188.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.88	EL
Bottom of ISS:	162.25	EL
Nozzle:	157.38	EL
TOR:	157.43	EL
Time Start:	9:57	
Time Finish:	10:19	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Bottom of JGC:	157.43	EL
6 in/min Pull Rate to:	164.88	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	164.90	EL
Top of JGC:	164.90	EL
Time Start:	10:24	
Time Finish:	10:40	
Grouting Duration:	0:16	h:mm

Summary:

Constructed JG Height:	7.47	ft

Depth	Notes
0 ft	ISS Auger Column 8-E-9
10 ft	
20 ft	
	26.63' Sand/Soil (10:14am)
	27.50' Till
30 ft	31.45' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-E-9, Bot EL 162.71

MTA Bot EL 162.25

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-225
GS (EL)	188.64
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.64	EL
Bottom of ISS:	164.14	EL
Nozzle:	157.61	EL
TOR:	157.61	EL
Time Start:	10:52	
Time Finish:	11:04	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Bottom of JGC:	157.61	EL
6 in/min Pull Rate to:	166.72	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	166.72	EL
Time Start:	11:06	
Time Finish:	11:21	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	9.11	ft

Depth	Notes
0 ft	ISS Auger Column 8-E-10
10 ft	
20 ft	
	24.50' Till (10:59am)
30 ft	31.03' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-E-10, Bot EL 164.09

MTA Bot EL 164.14

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-226
GS (EL)	188.59
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.59	EL
Bottom of ISS:	164.09	EL
Nozzle:	158.21	EL
TOR:	158.37	EL
Time Start:	11:32	
Time Finish:	11:50	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	158.37	EL
6 in/min Pull Rate to:	163.59	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	166.61	EL
Top of JGC:	166.61	EL
Time Start:	11:51	
Time Finish:	12:06	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	8.24	ft

Depth	Notes
0 ft	ISS Auger Column 8-E-10
10 ft	
20 ft	
	24.50' Sand/Soil (11:45am)
30 ft	29.42' Till
	30.22' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Sauger Column 8-E-10, Bot EL 164.09

MTA Bot EL 164.09

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-227
GS (EL)	188.59
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.59	EL
Bottom of ISS:	165.59	EL
Nozzle:	160.77	EL
TOR:	160.78	EL
Time Start:	13:21	
Time Finish:	13:37	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	160.78	EL
6 in/min Pull Rate to:	166.67	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	166.67	EL
Time Start:	13:38	
Time Finish:	13:50	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	5.89	ft

Depth	Notes
0 ft	ISS Auger Column 8-E-11
10 ft	
20 ft	
	23.00' Till (1:31pm)
	27.81' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-E-11, Bot EL 165.87

MTA Bot EL 165.59

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-228
GS (EL)	189.14
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	160.12	EL
TOR:	160.12	EL
Time Start:	14:06	
Time Finish:	14:17	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	160.12	EL
6 in/min Pull Rate to:	164.14	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	184.09	EL
Top of JGC:	184.09	EL
Time Start:	14:24	
Time Finish:	14:52	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	23.97	ft

Depth	Notes
0 ft	0' Cementitious Material
	5.50' Sand/Soil
10 ft	
20 ft	
	21.50' Till
30 ft	29.02' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-229
GS (EL)	189.17
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.87	EL
TOR:	161.87	EL
Time Start:	15:12	
Time Finish:	15:26	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Bottom of JGC:	161.87	EL
6 in/min Pull Rate to:	162.54	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.32	EL
Top of JGC:	186.32	EL
Time Start:	15:26	
Time Finish:	15:53	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	24.45	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-230
GS (EL)	188.93
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.58	EL
TOR:	162.59	EL
Time Start:	16:24	
Time Finish:	16:40	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	162.59	EL
6 in/min Pull Rate to:	163.88	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.94	EL
Top of JGC:	185.94	EL
Time Start:	16:42	
Time Finish:	17:09	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	23.35	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-231
GS (EL)	189.61
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.63	EL
TOR:	163.63	EL
Time Start:	17:18	
Time Finish:	17:37	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	163.63	EL
6 in/min Pull Rate to:	164.58	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.62	EL
Top of JGC:	186.62	EL
Time Start:	17:39	
Time Finish:	18:05	
Grouting Duration:	0:26	h:mm

Summary:

Constructed JG Height:	22.99	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	15.00 Sand/Soil
20 ft	
	25.45' Till
	25.98' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-232
GS (EL)	189.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.18	EL
Bottom of ISS:	163.93	EL
Nozzle:	157.14	EL
TOR:	157.14	EL
Time Start:	19:02	
Time Finish:	19:23	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	157.14	EL
6 in/min Pull Rate to:	157.68	EL
8 in/min Pull Rate to:	165.20	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.20	EL
Time Start:	19:23	
Time Finish:	19:38	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	8.06	ft

Depth	Notes
0 ft	ISS Auger Column 8-F-9
10 ft	
20 ft	
	25.25' Sand/Soil (7:18pm)
30 ft	31.91' Till
	32.04' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-9, Bot EL 163.09

MTA Bot EL 163.93

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-233
GS (EL)	189.82
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.82	EL
Bottom of ISS:	164.42	EL
Nozzle:	156.69	EL
TOR:	156.69	EL
Time Start:	19:53	
Time Finish:	20:24	
Drilling Duration:	0:31	h:mm

Grouting Parameters:

Bottom of JGC:	156.69	EL
6 in/min Pull Rate to:	163.33	EL
8 in/min Pull Rate to:	166.23	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	166.23	EL
Time Start:	20:25	
Time Finish:	20:43	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	9.54	ft

Depth	Notes
0 ft	ISS Auger Column 8-F-9
10 ft	
20 ft	
	25.40' Sand/Soil (8:08pm)
	26.50' Till
30 ft	26.75' - 28.57' Very Hard
	33.13' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-9, Bot EL 163.09

MTA Bot EL 164.42

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/7/10
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

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

Element ID No.	Int-234
GS (EL)	189.9
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.90	EL
Bottom of ISS:	165.45	EL
Nozzle:	158.99	EL
TOR:	160.55	EL
Time Start:	21:00	
Time Finish:	21:24	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	160.55	EL
6 in/min Pull Rate to:	161.26	EL
8 in/min Pull Rate to:	166.97	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	166.97	EL
Time Start:	21:25	
Time Finish:	21:36	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	6.42	ft

Depth	Notes
0 ft	ISS Auger Column 8-F-10
10 ft	
20 ft	
	24.45' Sand/Soil (9:15pm)
	28.67' Till
30 ft	29.35' TOR (9:17pm)
	30.91' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-10, Bot EL 164.09

MTA Bot EL 165.45

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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, Snow
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	1.45		

Element ID No.	Int-235
GS (EL)	189.7
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.70	EL
Bottom of ISS:	166.25	EL
Nozzle:	161.55	EL
TOR:	161.56	EL
Time Start:	7:47	
Time Finish:	8:07	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	161.56	EL
6 in/min Pull Rate to:	165.55	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	169.33	EL
Top of JGC:	169.33	EL
Time Start:	8:07	
Time Finish:	8:19	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	7.77	ft

Depth	Notes
0 ft	ISS Auger Column 8-E-11
10 ft	
20 ft	
	23.45' Sand/Soil (8:00am)
	25.50' Till
	28.14' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-E-11, Bot EL 165.87

MTA Bot EL 166.25

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

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

Element ID No.	Int-236
GS (EL)	189.19
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.86	EL
TOR:	161.86	EL
Time Start:	8:30	
Time Finish:	8:50	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	161.86	EL
6 in/min Pull Rate to:	166.42	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.34	EL
Top of JGC:	186.34	EL
Time Start:	8:52	
Time Finish:	9:22	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	24.48	ft

Depth	Notes
0 ft	Very soft
10 ft	
20 ft	
	22.83' Till (8:43am)
	27.33' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Supposed to be thru ISS Auger Column 8-X-1, Bot EL 166.16.

Did not encounter any apparent ISS, grouted hole to surface.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

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

Element ID No.	Int-237
GS (EL)	189.19
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.19	EL
Bottom of ISS:	167.50	EL
Nozzle:	164.09	EL
TOR:	164.10	EL
Time Start:	10:50	
Time Finish:	11:03	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	164.10	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	170.72	EL
Top of JGC:	170.72	EL
Time Start:	11:04	
Time Finish:	11:15	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	6.62	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-1
10 ft	
20 ft	21.69' Till (10:57am)
	25.09' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-1, Bot EL 66.16

MTA Bot EL 167.50

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

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

Element ID No.	Int-238
GS (EL)	189.19
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	165.11	EL
TOR:	165.12	EL
Time Start:	12:25	
Time Finish:	12:53	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	165.12	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.24	EL
Top of JGC:	186.24	EL
Time Start:	12:54	
Time Finish:	13:17	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	21.12	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

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

Element ID No.	Int-239
GS (EL)	189.19
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	166.52	EL
TOR:	166.57	EL
Time Start:	13:32	
Time Finish:	13:51	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	166.57	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.30	EL
Top of JGC:	186.30	EL
Time Start:	13:51	
Time Finish:	14:12	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	19.73	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-240
GS (EL)	189
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	158.00	EL
TOR:	158.62	EL
Time Start:	16:33	
Time Finish:	16:53	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	158.62	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.00	EL
12 in/min Pull Rate to:	186.11	EL
Top of JGC:	186.11	EL
Time Start:	16:55	
Time Finish:	17:28	
Grouting Duration:	0:33	h:mm

Summary:

Constructed JG Height:	27.49	ft

Depth	Notes
0 ft	0' Sand/Soil
	3' Hard Layer
10 ft	
20 ft	
30 ft	30.38' TOR (4:44pm)
	31.00 Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

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

Element ID No.	Int-241
GS (EL)	189.12
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.12	EL
Bottom of ISS:	163.05	EL
Nozzle:	157.89	EL
TOR:	157.90	EL
Time Start:	18:13	
Time Finish:	18:34	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	157.90	EL
6 in/min Pull Rate to:	162.51	EL
8 in/min Pull Rate to:	164.19	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.19	EL
Time Start:	18:35	
Time Finish:	18:48	
Grouting Duration:	0:13	h:mm

Summary:

Constructed JG Height:	6.29	ft

Depth	Notes
0 ft	ISS Auger Column 8-F-9
10 ft	
20 ft	
	26.07' Sand/Soil (6:26pm)
	27.27' Till
30 ft	31.22' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-9, Bot EL 163.09

MTA Bot EL 163.05

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

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

Element ID No.	Int-242
GS (EL)	189.14
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.14	EL
Bottom of ISS:	164.29	EL
Nozzle:	159.35	EL
TOR:	159.36	EL
Time Start:	19:01	
Time Finish:	19:20	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	159.36	EL
6 in/min Pull Rate to:	160.04	EL
8 in/min Pull Rate to:	165.68	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.68	EL
Time Start:	19:21	
Time Finish:	19:32	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	6.32	ft

Depth	Notes
0 ft	ISS Auger Column 8-F-10
10 ft	
20 ft	
	24.85' Sand/Soil (7:14pm)
	29.35' Till
30 ft	29.78' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-10, Bot EL 164.25

MTA Bot EL 164.29

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/8/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-243
GS (EL)	189.86
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.86	EL
Bottom of ISS:	165.10	EL
Nozzle:	160.73	EL
TOR:	160.77	EL
Time Start:	11:40	
Time Finish:	11:48	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Bottom of JGC:	160.77	EL
6 in/min Pull Rate to:	165.10	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	168.44	EL
Top of JGC:	168.44	EL
Time Start:	11:49	
Time Finish:	12:11	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	7.67	ft

Depth	Notes
0 ft	ISS Auger Column 8-F-10
10 ft	
20 ft	
	24.76' Till (11:44am)
30 ft	29.09' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-F-10, Bot EL 164.25

MTA Bot EL 165.10

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-244
GS (EL)	189.09
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.59	EL
TOR:	161.59	EL
Time Start:	9:47	
Time Finish:	10:26	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	161.59	EL
6 in/min Pull Rate to:	170.32	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.49	EL
Top of JGC:	185.49	EL
Time Start:	10:32	
Time Finish:	11:22	
Grouting Duration:	0:46	h:mm

Summary:

Constructed JG Height:	23.90	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	20.25' Hard Layer (9:53am)
	27.50' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-245
GS (EL)	189.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.18	EL
Bottom of ISS:	169.80	EL
Nozzle:	162.43	EL
TOR:	162.43	EL
Time Start:	12:44	
Time Finish:	13:07	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	162.43	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	172.32	EL
Top of JGC:	172.32	EL
Time Start:	13:09	
Time Finish:	13:37	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	9.89	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-1
10 ft	
20 ft	19.38' Till (12:55pm)
	26.75' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-1, Bot EL 166.16

MTA Bot EL 169.80

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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

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

Element ID No.	Int-246
GS (EL)	188.97
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.97	EL
Bottom of ISS:	166.77	EL
Nozzle:	164.13	EL
TOR:	164.14	EL
Time Start:	13:50	
Time Finish:	14:07	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	164.14	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	167.97	EL
Top of JGC:	167.97	EL
Time Start:	14:09	
Time Finish:	14:18	
Grouting Duration:	0:09	h:mm

Summary:

Constructed JG Height:	3.83	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-1
10 ft	
20 ft	
	22.20' Till (1:56pm)
	24.83' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial column thru ISS Auger Column 8-X-1, Bot EL 166.16

MTA Bot EL 166.77

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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:	Partly Cloudy, Co
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.	Int-247
GS (EL)	188.96
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.30	EL
TOR:	163.35	EL
Time Start:	14:38	
Time Finish:	15:03	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	163.35	EL
6 in/min Pull Rate to:	168.96	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.01	EL
Top of JGC:	186.01	EL
Time Start:	15:04	
Time Finish:	15:33	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	22.66	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	20.30' Obsruction (Boulder??)
	25.61' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-248
GS (EL)	188.95
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	165.10	EL
TOR:	165.11	EL
Time Start:	15:48	
Time Finish:	16:12	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	165.11	EL
6 in/min Pull Rate to:	168.95	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.96	EL
Top of JGC:	185.96	EL
Time Start:	16:12	
Time Finish:	16:38	
Grouting Duration:	0:26	h:mm

Summary:

Constructed JG Height:	20.85	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	19.87' Obstruction?
	23.84' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-249
GS (EL)	189.43
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	158.85	EL
TOR:	159.12	EL
Time Start:	17:29	
Time Finish:	18:12	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	159.12	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.50	EL
12 in/min Pull Rate to:	186.67	EL
Top of JGC:	186.67	EL
Time Start:	18:14	
Time Finish:	18:47	
Grouting Duration:	0:33	h:mm

Summary:

Constructed JG Height:	27.55	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	30.31' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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

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

Element ID No.	Int-250
GS (EL)	189.39
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.91	EL
TOR:	157.09	EL
Time Start:	19:44	
Time Finish:	19:58	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Bottom of JGC:	157.09	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.82	EL
12 in/min Pull Rate to:	186.50	EL
Top of JGC:	186.50	EL
Time Start:	19:59	
Time Finish:	20:36	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	29.41	ft

Depth	Notes
0 ft	0' Cementitious Material
	8.5' Sand/Soil
10 ft	
20 ft	
30 ft	32.30' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/11/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-251
GS (EL)	189.17
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	157.08	EL
TOR:	157.09	EL
Time Start:	20:49	
Time Finish:	21:12	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	157.09	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	166.49	EL
12 in/min Pull Rate to:	186.25	EL
Top of JGC:	186.25	EL
Time Start:	21:13	
Time Finish:	21:50	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	29.16	ft

Depth	Notes
0 ft	0' Cementitious Material
	6' - 7' Very Hard
10 ft	
20 ft	
30 ft	32.08' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-252
GS (EL)	189.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.18	EL
Bottom of ISS:	166.68	EL
Nozzle:	159.13	EL
TOR:	159.43	EL
Time Start:	7:37	
Time Finish:	7:58	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	159.43	EL
6 in/min Pull Rate to:	163.13	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	168.22	EL
Top of JGC:	168.22	EL
Time Start:	8:21	
Time Finish:	8:39	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	8.79	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-2
10 ft	
20 ft	
	22.50' Sand/Soil (7:50am)
30 ft	29.75' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-2, Bot EL 166.86

MTA Bot EL 166.68

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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

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

Element ID No.	Int-253
GS (EL)	189.24
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.24	EL
Bottom of ISS:	166.27	EL
Nozzle:	159.71	EL
TOR:	159.72	EL
Time Start:	9:00	
Time Finish:	9:21	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	159.72	EL
6 in/min Pull Rate to:	164.24	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	168.28	EL
Top of JGC:	168.28	EL
Time Start:	9:24	
Time Finish:	9:38	
Grouting Duration:	0:14	h:mm

Summary:

Constructed JG Height:	8.56	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-2
10 ft	
20 ft	
	22.97' Sand/Soil (9:14am)
	26.56' Till
30 ft	29.52' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-2, Bot EL 166.86

MTA Bot EL 166.27

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-254
GS (EL)	189.25
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.50	EL
TOR:	163.50	EL
Time Start:	9:50	
Time Finish:	10:01	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	163.50	EL
6 in/min Pull Rate to:	166.25	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.30	EL
Top of JGC:	186.30	EL
Time Start:	10:02	
Time Finish:	10:28	
Grouting Duration:	0:26	h:mm

Summary:

Constructed JG Height:	22.80	ft

Depth	Notes
0 ft	0' Cementitious Material
	6' Sand/Soil
10 ft	
20 ft	
	24.50' Till
	25.75' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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

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

Element ID No.	Int-255
GS (EL)	189.45
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.89	EL
TOR:	163.90	EL
Time Start:	11:46	
Time Finish:	12:13	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	163.90	EL
6 in/min Pull Rate to:	169.95	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.63	EL
Top of JGC:	186.63	EL
Time Start:	12:14	
Time Finish:	12:44	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	22.73	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	19.50' Till
	25.55' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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, Cold
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	1.46		

Element ID No.	Int-256
GS (EL)	189.70
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.86	EL
TOR:	157.20	EL
Time Start:	15:04	
Time Finish:	15:22	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	157.20	EL
6 in/min Pull Rate to:	162.70	EL
8 in/min Pull Rate to:	164.70	EL
12 in/min Pull Rate to:	186.81	EL
Top of JGC:	186.81	EL
Time Start:	15:23	
Time Finish:	16:01	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	29.61	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	27.34' Till 32.50' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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, Cold, Wind
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.	Int-257
GS (EL)	190.00
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	190.00	EL
Bottom of ISS:	165.73	EL
Nozzle:	158.01	EL
TOR:	160.61	EL
Time Start:	16:13	
Time Finish:	17:00	
Drilling Duration:	0:47	h:mm

Grouting Parameters:

Bottom of JGC:	160.61	EL
6 in/min Pull Rate to:	163.56	EL
8 in/min Pull Rate to:	165.13	EL
12 in/min Pull Rate to:	170.64	EL
Top of JGC:	170.64	EL
Time Start:	17:02	
Time Finish:	17:17	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	10.03	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	24.27' Hard Sand/Soil (4:36pm)
	28.46' Till
30 ft	29.39' TOR (4:38pm)
	31.99' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Encountered cementitious material from ground surface to 24.27' bgs. Grouted and took specific gravity to verify drilling actions.

28' - 1.54; 26' - 1.64; 24' - 1.49; 21' - 1.47

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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, Cold, Wind
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	1.46		

Element ID No.	Int-258
GS (EL)	189.86
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.86	EL
Bottom of ISS:	167.46	EL
Nozzle:	160.07	EL
TOR:	160.11	EL
Time Start:	17:31	
Time Finish:	17:45	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Bottom of JGC:	160.11	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.89	EL
12 in/min Pull Rate to:	168.96	EL
Top of JGC:	168.96	EL
Time Start:	17:46	
Time Finish:	17:59	
Grouting Duration:	0:13	h:mm

Summary:

Constructed JG Height:	8.85	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-2
10 ft	
20 ft	
	22.40' Sand/Soil (5:40pm)
30 ft	29.75' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-2, Bot EL 166.86

MTA Bot EL 167.46

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-259
GS (EL)	189.66
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.66	EL
Bottom of ISS:	166.97	EL
Nozzle:	160.56	EL
TOR:	160.56	EL
Time Start:	18:57	
Time Finish:	19:25	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	160.56	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.66	EL
12 in/min Pull Rate to:	168.79	EL
Top of JGC:	168.79	EL
Time Start:	19:26	
Time Finish:	19:37	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	8.23	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-2
10 ft	
20 ft	
	22.69' Sand/Soil (7:15pm)
30 ft	29.10' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-2, Bot EL 166.86

MTA Bot EL 166.97

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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

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

Element ID No.	Int-260
GS (EL)	189.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.39	EL
TOR:	162.68	EL
Time Start:	19:48	
Time Finish:	20:09	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	162.68	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.88	EL
12 in/min Pull Rate to:	187.06	EL
Top of JGC:	187.06	EL
Time Start:	20:10	
Time Finish:	20:39	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	24.38	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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, Cold
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.	Int-261
GS (EL)	189.79
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.79	EL
TOR:	162.99	EL
Time Start:	20:51	
Time Finish:	21:14	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	162.99	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.79	EL
12 in/min Pull Rate to:	186.80	EL
Top of JGC:	186.80	EL
Time Start:	21:14	
Time Finish:	21:41	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	23.81	ft

Depth	Notes
0 ft	0' Soft Cementitious Material
10 ft	
20 ft	20.66' Sand/Soil
	26.80' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-262
GS (EL)	189.43
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.43	EL
Bottom of ISS:	166.48	EL
Nozzle:	159.31	EL
TOR:	159.32	EL
Time Start:	8:32	
Time Finish:	9:06	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	159.32	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.93	EL
12 in/min Pull Rate to:	167.48	EL
Top of JGC:	167.48	EL
Time Start:	9:06	
Time Finish:	9:21	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	8.16	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-3
10 ft	
20 ft	
	22.95' Sand/Soil (8:55am)
	26.00' Till
30 ft	30.11' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-3, Bot EL 165.66

MTA Bot EL 166.48

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-263
GS (EL)	189.34
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.34	EL
Bottom of ISS:	171.93	EL
Nozzle:	160.53	EL
TOR:	160.54	EL
Time Start:	9:32	
Time Finish:	9:48	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	160.54	EL
6 in/min Pull Rate to:	164.34	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	169.03	EL
Top of JGC:	169.03	EL
Time Start:	9:48	
Time Finish:	10:01	
Grouting Duration:	0:13	h:mm

Summary:

Constructed JG Height:	8.49	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-3
10 ft	
	17.41' Sand/Soil (9:42am)
20 ft	
	28.80' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-3, Bot EL 165.66

MTA Bot EL 171.93

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-264
GS (EL)	189.26
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.26	EL
Bottom of ISS:	163.76	EL
Nozzle:	160.91	EL
TOR:	161.26	EL
Time Start:	10:12	
Time Finish:	10:32	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	161.26	EL
6 in/min Pull Rate to:	164.26	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	169.31	EL
Top of JGC:	169.31	EL
Time Start:	10:33	
Time Finish:	10:45	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	8.05	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-4
10 ft	
20 ft	
	25.50' Sand/Soil (10:28am)
	26.50' Till
30 ft	28.00' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-4, Bot EL 167.57

MTA Bot EL 165.26

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-265
GS (EL)	189.41
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	164.41	EL
TOR:	164.41	EL
Time Start:	12:09	
Time Finish:	12:27	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	164.41	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.49	EL
Top of JGC:	186.49	EL
Time Start:	12:27	
Time Finish:	12:53	
Grouting Duration:	0:26	h:mm

Summary:

Constructed JG Height:	22.08	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-266
GS (EL)	189.41
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	165.00	EL
TOR:	165.21	EL
Time Start:	13:09	
Time Finish:	13:37	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	165.21	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.19	EL
Top of JGC:	186.19	EL
Time Start:	13:38	
Time Finish:	14:04	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	20.98	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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: Partly Cloudy
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.	Int-267
GS (EL)	189.50
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	154.62	EL
TOR:	158.30	EL
Time Start:	15:05	
Time Finish:	15:43	
Drilling Duration:	0:38	h:mm

Grouting Parameters:

Bottom of JGC:	158.30	EL
6 in/min Pull Rate to:	163.45	EL
8 in/min Pull Rate to:	169.06	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	169.06	EL
Time Start:	15:51	
Time Finish:	16:28	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	10.76	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	31.20' TOR
	34.88' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

No change in drilling action from ground surface to bedrock at EL 158.30.

No anticipated bedrock EL given prior to drilling. Drilled additional 3.68' into bedrock (9 minutes) while waiting for WRSC and Parsons to determine an anticipated bedrock.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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:	Partly Cloudy
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.	Int-268
GS (EL)	189.69
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.69	EL
Bottom of ISS:	163.49	EL
Nozzle:	153.21	EL
TOR:	153.22	EL
Time Start:	16:41	
Time Finish:	17:07	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Bottom of JGC:	153.22	EL
6 in/min Pull Rate to:	155.69	EL
8 in/min Pull Rate to:	164.76	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.76	EL
Time Start:	17:08	
Time Finish:	17:30	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	11.54	ft

Depth	Notes
0 ft	ISS Auger Column 7-K-9
10 ft	
20 ft	
	26.20' Sand/Soil (5:00pm)
30 ft	
	35.95' Till
	36.47' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-K-9, Bot EL 162.81

MTA Bot EL 163.49

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

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

Element ID No.	Int-269
GS (EL)	189.62
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.62	EL
Bottom of ISS:	166.16	EL
Nozzle:	158.32	EL
TOR:	158.33	EL
Time Start:	19:36	
Time Finish:	19:55	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	158.33	EL
6 in/min Pull Rate to:	159.37	EL
8 in/min Pull Rate to:	164.78	EL
12 in/min Pull Rate to:	167.24	EL
Top of JGC:	167.24	EL
Time Start:	19:57	
Time Finish:	20:11	
Grouting Duration:	0:14	h:mm

Summary:

Constructed JG Height:	8.91	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-3
10 ft	
20 ft	
	23.46' Sand/Soil (7:46pm)
	24'-25' Hard Layer
30 ft	31.29' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-3, Bot EL 165.66

MTA Bot EL 166.16

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

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

Element ID No.	Int-270
GS (EL)	189.60
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.60	EL
Bottom of ISS:	167.63	EL
Nozzle:	159.71	EL
TOR:	159.72	EL
Time Start:	20:23	
Time Finish:	20:39	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	159.72	EL
6 in/min Pull Rate to:	160.17	EL
8 in/min Pull Rate to:	164.67	EL
12 in/min Pull Rate to:	169.29	EL
Top of JGC:	169.29	EL
Time Start:	20:40	
Time Finish:	20:53	
Grouting Duration:	0:13	h:mm

Summary:

Constructed JG Height:	9.57	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-5
10 ft	
20 ft	21.97' Sand/Soil (8:33pm)
30 ft	29.88' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-5, Bot EL 165.79

MTA Bot EL 167.63

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/14/10
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

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

Element ID No.	INT 271
GS (EL)	189.71
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.99	EL
TOR:	164.91	EL
Time Start:	9:08	
Time Finish:	9:34	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Bottom of JGC:	166.41	EL
6 in/min Pull Rate to:	168.78	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.79	EL
Top of JGC:	186.79	EL
Time Start:	9:34	
Time Finish:	10:54	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	20.38	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	22.43' Till
	24.8' TOR
	25.72' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Anticipated bedrock at EL 164. MTA encountered bedrock at EL 164.91. Drilled addiditonal 1 foot to meet anticipated. (14 minutes)

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/14/10
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

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

Element ID No.	INT 272
GS (EL)	189.62
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.85	EL
TOR:	163.85	EL
Time Start:	8:03	
Time Finish:	8:24	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	163.85	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.62	EL
12 in/min Pull Rate to:	186.67	EL
Top of JGC:	186.67	EL
Time Start:	8:26	
Time Finish:	8:51	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	22.82	ft

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

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/14/10
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

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

Element ID No.	INT-273
GS (EL)	189.44
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.44	EL
Bottom of ISS:	164.27	EL
Nozzle:	153.02	EL
TOR:	153.04	EL
Time Start:	12:49	
Time Finish:	13:24	
Drilling Duration:	0:35	h:mm

Grouting Parameters:

Bottom of JGC:	153.04	EL
6 in/min Pull Rate to:	159.94	EL
8 in/min Pull Rate to:	165.49	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.49	EL
Time Start:	13:25	
Time Finish:	13:49	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	12.45	ft

Depth	Notes
0 ft	ISS Auger Column 7-K-9
10 ft	
20 ft	
	25.17' Sand/Soil (1:11 PM)
	29.5' Till
30 ft	
	36.40' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial Thru ISS Auger Column 7-K-9, Bot EL 162.81

MTA Bot El. 164.27

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/14/10
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

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

Element ID No.	INT-274
GS (EL)	189.59
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	155.31	EL
TOR:	155.31	EL
Time Start:	14:09	
Time Finish:	14:26	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	155.31	EL
6 in/min Pull Rate to:	161.09	EL
8 in/min Pull Rate to:	164.59	EL
12 in/min Pull Rate to:	186.70	EL
Top of JGC:	186.70	EL
Time Start:	14:27	
Time Finish:	15:08	
Grouting Duration:	0:41	h:mm

Summary:

Constructed JG Height:	31.39	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	28.5' Till
40 ft	34.28' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/14/10
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.	Int-275
Grout Mix:	Water	380	lit		GS (EL)	189.72
	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:	189.72	EL
Bottom of ISS:	167.26	EL
Nozzle:	156.71	EL
TOR:	156.82	EL
Time Start:	15:32	
Time Finish:	15:52	
Drilling Duration:	0:20	h:mm

Grouting Parameters:		
Bottom of JGC:	156.82	EL
6 in/min Pull Rate to:	159.69	EL
8 in/min Pull Rate to:	164.89	EL
12 in/min Pull Rate to:	168.72	EL
Top of JGC:	168.72	EL
Time Start:	15:53	
Time Finish:	16:12	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	11.90	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-5
10 ft	
20 ft	
	22.46' Sand/Soil (3:46pm)
30 ft	30.50' Till
	32.90' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-5, Bot EL 165.79

MTA Bot EL 167.26

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/14/10
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.	Int-276
Grout Mix:	Water	380	lit		GS (EL)	189.64
	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:	189.64	EL
Bottom of ISS:	165.54	EL
Nozzle:	161.13	EL
TOR:	161.66	EL
Time Start:	16:21	
Time Finish:	16:47	
Drilling Duration:	0:26	h:mm

Grouting Parameters:		
Bottom of JGC:	161.66	EL
6 in/min Pull Rate to:	163.14	EL
8 in/min Pull Rate to:	164.64	EL
12 in/min Pull Rate to:	166.77	EL
Top of JGC:	166.77	EL
Time Start:	16:48	
Time Finish:	16:54	
Grouting Duration:	0:06	h:mm

Summary:		
Constructed JG Height:	5.11	ft

Depth	Notes
0 ft	ISS Auger Column 8-X-5
10 ft	
20 ft	
	24.10' Sand/Soil (4:31pm)
	26.86' Till
	27.98' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-X-5, Bot EL 165.79

MTA Bot EL 165.54

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/14/10
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.	Int-277
Grout Mix:	Water	380	lit		GS (EL)	189.72
	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:	165.05	EL
TOR:	165.08	EL
Time Start:	17:05	
Time Finish:	17:23	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	165.08	EL
6 in/min Pull Rate to:	166.72	EL
8 in/min Pull Rate to:	166.82	EL
12 in/min Pull Rate to:	186.83	EL
Top of JGC:	186.83	EL
Time Start:	17:24	
Time Finish:	17:48	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	21.75	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/15/10
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.	Int-278
Grout Mix:	Water	380	lit		GS (EL)	189.56
	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:	167.02	EL
TOR:	167.75	EL
Time Start:	15:04	
Time Finish:	15:28	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	167.75	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	169.56	EL
12 in/min Pull Rate to:	186.67	EL
Top of JGC:	186.67	EL
Time Start:	15:29	
Time Finish:	15:50	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	18.92	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	16.90' Sand/Soil
20 ft	21.81' TOR (3:23pm)
	22.54' Final Depth (3:28pm)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Anticipated bedrock at EL 167. MTA encountered bedrock at EL 167.75. Drilled to EL 167.02 to meet anticipated.
Additional 5 minutes of drilling

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/15/10
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, 30
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 279
Grout Mix:	Water	380	lit		GS (EL)	189.63
	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:	189.63	EL
Bottom of ISS:	163.85	EL
Nozzle:	153.97	EL
TOR:	153.98	EL
Time Start:	8:05	
Time Finish:	8:24	
Drilling Duration:	0:19	h:mm
Grouting Parameters:		
Bottom of JGC:	153.98	EL
6 in/min Pull Rate to:	164.89	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.89	EL
Time Start:	8:25	
Time Finish:	10:11	
Grouting Duration:	0:23	h:mm
Summary:		
Constructed JG Height:	10.91	ft

Depth	Notes
0 ft	ISS Auger Column 7-L-10
10 ft	
20 ft	
	25.78' Till (8:17 AM)
30 ft	
	35.65' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-L-10, Bot El. 163.27

MTA Bot El. 163.85

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/15/10
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:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	Element Type:	Col		Nozzle Dia: 6mm	Element ID No.	INT 280
Grout Mix:	Water	380	lit		GS (EL)	189.72
	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:	164.72	EL
Nozzle:	156.45	EL
TOR:	156.47	EL
Time Start:	10:22	
Time Finish:	10:42	
Drilling Duration:	0:20	h:mm
Grouting Parameters:		
Bottom of JGC:	156.47	EL
6 in/min Pull Rate to:	158.75	EL
8 in/min Pull Rate to:	165.74	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	165.74	EL
Time Start:	10:42	
Time Finish:	10:58	
Grouting Duration:	0:16	h:mm
Summary:		
Constructed JG Height:	9.27	ft

Depth	Notes
0 ft	ISS Auger Column 7-L-10
10 ft	
20 ft	
30 ft	25.00' Sand/Soil (10:36am)
40 ft	32.54' Till 33.25' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-L-10, Bot EL 163.27

MTA Bot EL 164.72

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/15/10
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:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 281
Grout Mix:	Water	380	lit		GS (EL)	189.63
	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:	161.63	EL
TOR:	161.63	EL
Time Start:	11:11	
Time Finish:	11:31	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	161.63	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.68	EL
12 in/min Pull Rate to:	186.68	EL
Top of JGC:	186.68	EL
Time Start:	11:32	
Time Finish:	12:00	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	25.05	ft

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

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/15/10
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:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 282
Grout Mix:	Water	380	lit		GS (EL)	189.55
	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:	163.96	EL
TOR:	166.15	EL
Time Start:	12:58	
Time Finish:	13:17	
Drilling Duration:	0:19	h:mm
Grouting Parameters:		
Bottom of JGC:	166.15	EL
6 in/min Pull Rate to:	169.27	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.70	EL
Top of JGC:	186.70	EL
Time Start:	13:18	
Time Finish:	13:45	
Grouting Duration:	0:27	h:mm
Summary:		
Constructed JG Height:	20.55	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	16.5' Sand/Soil
20 ft	
	20.5' Till
	23.4' TOR (1:11 PM)
	25.59' Final Depth (1:17 PM)
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Anticipated bedrock at EL 164. MTA encountered bedrock at EL 166.15. Drilled to EL 163.96 to meet anticipated bedrock. (6 additional minutes of drilling)

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/15/10
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:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 283
Grout Mix:	Water	380	lit		GS (EL)	189.49
	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:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	167.67	EL
TOR:	167.71	EL
Time Start:	14:09	
Time Finish:	14:21	
Drilling Duration:	0:12	h:mm
Grouting Parameters:		
Bottom of JGC:	167.71	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.60	EL
Top of JGC:	186.60	EL
Time Start:	14:21	
Time Finish:	14:41	
Grouting Duration:	0:20	h:mm
Summary:		
Constructed JG Height:	18.89	ft

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

Notes:

Technican Signature: Jeff Ayres

MORETRENCH

DATE: 1/6/10
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

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

Element ID No.	Int-284
GS (EL)	189.10
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	169.25	EL
TOR:	169.26	EL
Time Start:	19:44	
Time Finish:	19:52	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Bottom of JGC:	169.26	EL
6 in/min Pull Rate to:	170.14	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.02	EL
Top of JGC:	186.02	EL
Time Start:	19:54	
Time Finish:	20:12	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	16.76	ft

Depth	Notes
0 ft	Compacted jet grout spoils
10 ft	
20 ft	19.15' Till
	19.84' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/6/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-285
GS (EL)	189.62
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.62	EL
Bottom of ISS:	162.93	EL
Nozzle:	153.57	EL
TOR:	153.57	EL
Time Start:	9:40	
Time Finish:	10:04	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	153.57	EL
6 in/min Pull Rate to:	164.62	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.62	EL
Time Start:	10:11	
Time Finish:	10:33	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	11.05	ft

Depth	Notes
0 ft	ISS Auger Column 7-M-10
10 ft	
20 ft	
30 ft	26.69' Sand/Soil (9:57am) 27.81' Till
40 ft	36.05' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-M-10, Bot EL 162.00

MTA Bot EL 162.93

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/6/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-286
GS (EL)	189.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.18	EL
Bottom of ISS:	165.80	EL
Nozzle:	157.26	EL
TOR:	157.30	EL
Time Start:	12:13	
Time Finish:	12:36	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	157.30	EL
6 in/min Pull Rate to:	164.44	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	170.25	EL
Top of JGC:	170.25	EL
Time Start:	12:42	15:47
Time Finish:	12:57	15:56
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	12.95	ft

Depth	Notes
0 ft	ISS Auger Column 7-M-11
10 ft	
20 ft	
	23.38' Sand/Soil (12:29pm)
	27.32' Till
30 ft	31.88' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-M-11, Bot EL 164.85

MTA Bot EL 165.80

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/6/10
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

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

Element ID No.	Int-287
GS (EL)	189.34
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	165.82	EL
TOR:	165.84	EL
Time Start:	16:10	
Time Finish:	16:21	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	165.84	EL
6 in/min Pull Rate to:	166.80	EL
8 in/min Pull Rate to:	174.34	EL
12 in/min Pull Rate to:	186.29	EL
Top of JGC:	186.29	EL
Time Start:	16:24	
Time Finish:	16:53	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	20.45	ft

Depth	Notes
0 ft	Compacted jet grout spoils
10 ft	
20 ft	
	22.90' Till
	23.50' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/6/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-288
GS (EL)	189.51
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	168.15	EL
TOR:	168.32	EL
Time Start:	17:05	
Time Finish:	17:20	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	168.32	EL
6 in/min Pull Rate to:	169.10	EL
8 in/min Pull Rate to:	174.48	EL
12 in/min Pull Rate to:	186.59	EL
Top of JGC:	186.59	EL
Time Start:	17:22	
Time Finish:	17:46	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	18.27	ft

Depth	Notes
0 ft	Compacted jet grout spoils
10 ft	
20 ft	20.43' Till
	21.19' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/6/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-289
GS (EL)	189.49
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	169.48	EL
TOR:	170.32	EL
Time Start:	18:01	
Time Finish:	18:16	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	170.32	EL
6 in/min Pull Rate to:	171.50	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.49	EL
Top of JGC:	186.49	EL
Time Start:	18:18	
Time Finish:	18:36	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	16.17	ft

Depth	Notes
0 ft	Compacted jet grout spoils
10 ft	
	18.16' Till
20 ft	19.17' TOR
	20.01' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

WRSC/Parsons anticipated bedrock - EL 169.5

MTA encountered bedrock - EL 170.32

Drilled deeper to meet anticipated, additional 6 minutes of drilling

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-290
GS (EL)	189.09
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	157.13	EL
TOR:	157.34	EL
Time Start:	15:22	
Time Finish:	15:45	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	157.34	EL
6 in/min Pull Rate to:	164.13	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.01	EL
Top of JGC:	186.01	EL
Time Start:	15:52	
Time Finish:	16:30	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	28.67	ft

Depth	Notes
0 ft	Compacted grout spoils
10 ft	
20 ft	
	27.58' Till (3:34pm)
30 ft	31.75' TOR
40 ft	
50 ft	
60 ft	

Notes:

Supposed to be a partial column thru ISS Auger Column 7-M-11, Bot EL 164.85.

Hole located where water pit was and was backfilled with jet grout spoils.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-291
GS (EL)	189
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.00	EL
Bottom of ISS:	166.01	EL
Nozzle:	160.10	EL
TOR:	160.10	EL
Time Start:	16:54	
Time Finish:	17:35	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	160.10	EL
6 in/min Pull Rate to:	162.36	EL
8 in/min Pull Rate to:	164.07	EL
12 in/min Pull Rate to:	169.12	EL
Top of JGC:	169.12	EL
Time Start:	17:37	
Time Finish:	17:51	
Grouting Duration:	0:14	h:mm

Summary:

Constructed JG Height:	9.02	ft

Depth	Notes
0 ft	ISS Auger Column 7-M-11
10 ft	
20 ft	
	22.99' Sand/Soil (5:23pm)
	26.70' Till
30 ft	28.90' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-M-11, Bot EL 164.85

MTA Bot EL 166.01

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-292
GS (EL)	189.19
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.19	EL
Bottom of ISS:	165.35	EL
Nozzle:	162.98	EL
TOR:	163.05	EL
Time Start:	18:46	
Time Finish:	19:11	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	163.05	EL
6 in/min Pull Rate to:	170.06	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	170.06	EL
Time Start:	19:12	
Time Finish:	19:26	
Grouting Duration:	0:14	h:mm

Summary:

Constructed JG Height:	7.01	ft

Depth	Notes
0 ft	ISS Auger Column 7-N-12
10 ft	
20 ft	
	23.84' Till (7:06pm)
	26.14' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7-N-12, Bot EL 167.02

MTA Bot EL 165.35

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-293
GS (EL)	189.32
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	168.06	EL
TOR:	168.25	EL
Time Start:	19:39	
Time Finish:	19:54	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	168.25	EL
6 in/min Pull Rate to:	169.47	EL
8 in/min Pull Rate to:	172.36	EL
12 in/min Pull Rate to:	185.65	EL
Top of JGC:	185.65	EL
Time Start:	19:56	
Time Finish:	20:17	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	17.40	ft

Depth	Notes
0 ft	Compacted grout spoils
10 ft	
20 ft	19.87' Till (7:51pm)
	21.07' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-294
GS (EL)	189.28
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	168.58	EL
TOR:	169.93	EL
Time Start:	20:35	
Time Finish:	20:56	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	169.93	EL
6 in/min Pull Rate to:	170.88	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.93	EL
Top of JGC:	185.93	EL
Time Start:	20:59	
Time Finish:	21:19	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	16.00	ft

Depth	Notes
0 ft	Compacted grout spoils
10 ft	
	18.40' Till (8:45pm)
20 ft	19.35' TOR (8:46pm)
	20.70' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Ancticipated bedrock - EL 168.5

Encountered bedrcok - EL 169.93

Drilled deeper to meet anticipated, additional 10 minutes of drilling

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/15/10
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.	Int-295
Grout Mix:	Water	380	lit		GS (EL)	189.33
	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:	168.99	EL
TOR:	169.03	EL
Time Start:	16:32	
Time Finish:	16:53	
Drilling Duration:	0:21	h:mm

Grouting Parameters:		
Bottom of JGC:	169.03	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	172.44	EL
12 in/min Pull Rate to:	186.34	EL
Top of JGC:	186.34	EL
Time Start:	16:54	
Time Finish:	17:14	
Grouting Duration:	0:20	h:mm

Summary:		
Constructed JG Height:	17.31	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	12.39' Sand/Soil
	17.50' Till?
20 ft	20.30' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-296
GS (EL)	188.65
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.52	EL
TOR:	161.52	EL
Time Start:	8:32	
Time Finish:	9:03	
Drilling Duration:	0:31	h:mm

Grouting Parameters:

Bottom of JGC:	161.52	EL
6 in/min Pull Rate to:	166.34	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.60	EL
Top of JGC:	185.60	EL
Time Start:	9:04	
Time Finish:	9:37	
Grouting Duration:	0:33	h:mm

Summary:

Constructed JG Height:	24.08	ft

Depth	Notes
0 ft	Backfilled material
10 ft	
20 ft	20.50' Sand/Soil
	24.00' Till
	27.13' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Column located where water pit was which was backfilled with jet grout spoils.

Anticipated rock depth for this hole was not available at time of drilling. Using anticipated rock depths for nearby columns INT-297, INT-300 and INT-301, encountered rock was below anticipated.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-297
GS (EL)	188.46
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.46	EL
Bottom of ISS:	167.11	EL
Nozzle:	162.38	EL
TOR:	162.40	EL
Time Start:	10:02	
Time Finish:	10:23	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	162.38	EL
6 in/min Pull Rate to:	167.27	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	171.69	EL
Top of JGC:	171.69	EL
Time Start:	10:24	
Time Finish:	10:39	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	9.31	ft

Depth	Notes
0 ft	ISS Auger Column 7021
10 ft	
20 ft	21.35' Sand/Soil (10:11am)
	22.69' Till
	26.06' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial column through ISS Auger Column 7021, Bot EL 173.69

MTA Bot EL 167.62

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-298
GS (EL)	188.47
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.47	EL
Bottom of ISS:	175.97	EL
Nozzle:	167.90	EL
TOR:	167.90	EL
Time Start:	11:58	
Time Finish:	12:10	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Bottom of JGC:	167.90	EL
6 in/min Pull Rate to:	170.49	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	180.53	EL
Top of JGC:	180.53	EL
Time Start:	12:10	
Time Finish:	12:26	
Grouting Duration:	0:16	h:mm

Summary:

Constructed JG Height:	12.63	ft

Depth	Notes
0 ft	ISS Auger Column 7021
10 ft	
	12.5' Sand/Soil (12:06pm)
	18.30' Till
20 ft	20.57' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7021, Bot EL 173.69

MTA Bot EL 176.47

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/5/10
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, Cold
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.	Int-299
GS (EL)	188.34
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	167.47	EL
TOR:	168.50	EL
Time Start:	12:40	
Time Finish:	13:03	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	168.50	EL
6 in/min Pull Rate to:	170.56	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	183.71	EL
Top of JGC:	183.71	EL
Time Start:	13:04	
Time Finish:	13:35	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	15.21	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	12.56' - 13.66' Obstruction
	17.84' Till
20 ft	19.84' TOR (12:53pm)
	20.87' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Stopped grouting at 4.63' bgs due to surface material collapsing.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/4/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-300
GS (EL)	188.53
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.48	EL
TOR:	163.74	EL
Time Start:	19:33	
Time Finish:	19:55	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Bottom of JGC:	163.53	EL
6 in/min Pull Rate to:	170.58	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.64	EL
Top of JGC:	185.64	EL
Time Start:	20:34	
Time Finish:	21:04	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	22.11	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	18.63' Till (7:36pm)
	24.79' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Supposed to be a partial column thru ISS Auger Column 7021, Bot EL 173.69.
Did not encounter any ISS and consulted with WRSC and notified them that we would grout from rock to 3' below ground surface.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/4/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-301
GS (EL)	188.85
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	158.24	EL
TOR:	158.29	EL
Time Start:	12:38	
Time Finish:	13:15	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	158.29	EL
6 in/min Pull Rate to:	163.88	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.27	EL
Top of JGC:	185.27	EL
Time Start:	14:51	
Time Finish:	15:26	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	26.98	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	24.99' Till (12:51)
30 ft	30.56' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/4/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-302
GS (EL)	188.6
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.60	EL
Bottom of ISS:	165.89	EL
Nozzle:	158.91	EL
TOR:	158.92	EL
Time Start:	15:53	
Time Finish:	16:31	
Drilling Duration:	0:38	h:mm

Grouting Parameters:

Bottom of JGC:	158.92	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	169.96	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	169.96	EL
Time Start:	16:33	
Time Finish:	16:54	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	11.04	ft

Depth	Notes
0 ft	ISS Auger Column 7010
10 ft	
20 ft	
	22.71' Till (4:11pm)
30 ft	29.68' TOR
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7010, Bot EL 166.98
MTA Bot EL 165.89
Grout to EL 169.98

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/4/10
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-303
GS (EL)	188.54
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.21	EL
TOR:	161.21	EL
Time Start:	17:06	
Time Finish:	17:50	
Drilling Duration:	0:34	h:mm

Grouting Parameters:

Bottom of JGC:	161.21	EL
6 in/min Pull Rate to:	163.41	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.46	EL
Top of JGC:	185.46	EL
Time Start:	17:52	
Time Finish:	18:27	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	24.25	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
	18.30' (5:19pm)
20 ft	
	VERY HARD
	27.33' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/22/09
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

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

Element ID No.	Int-304
GS (EL)	189.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.01	EL
Bottom of ISS:	170.25	EL
Nozzle:	161.35	EL
TOR:	161.36	EL
Time Start:	11:54	
Time Finish:	12:13	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	161.36	EL
6 in/min Pull Rate to:	164.17	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	174.05	EL
Top of JGC:	174.05	EL
Time Start:	12:14	
Time Finish:	12:33	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	12.69	ft

Depth	Notes
0 ft	Auger Column 7010
10 ft	
	18.76' Sand/Soil (12:08pm)
20 ft	
	25.74' Till
	27.65' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7010, Bot EL 166.58
MTA Bot EL 170.25
Grout to EL 173.25

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/22/09
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

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

Element ID No.	Int-305
GS (EL)	188.97
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.97	EL
Bottom of ISS:	170.47	EL
Nozzle:	161.44	EL
TOR:	161.49	EL
Time Start:	9:39	
Time Finish:	10:07	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	161.49	EL
6 in/min Pull Rate to:	172.00	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	175.03	EL
Top of JGC:	175.03	EL
Time Start:	10:08	
Time Finish:	10:34	
Grouting Duration:	0:26	h:mm

Summary:

Constructed JG Height:	13.54	ft

Depth	Notes
0 ft	Auger Column 7010
10 ft	
	18.5' Sand/Soil (9:53am)
20 ft	20.20' Till
	21.20 - 21.90' Obstruction
	27.48' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7010, Bot EL 166.98
MTA Bot EL 170.47
Grout to EL 173.47

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/22/09
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

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

Element ID No.	Int-306
GS (EL)	189.11
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.11	EL
Bottom of ISS:	170.35	EL
Nozzle:	163.06	EL
TOR:	163.11	EL
Time Start:	12:51	
Time Finish:	13:12	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	163.11	EL
6 in/min Pull Rate to:	165.32	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	173.53	EL
Top of JGC:	173.53	EL
Time Start:	13:13	
Time Finish:	13:25	
Grouting Duration:	0:12	h:mm

Summary:

Constructed JG Height:	10.42	ft

Depth	Notes
0 ft	Auger Column 7010
10 ft	
	18.76' Sand/Soil (1:04pm)
20 ft	
	23.82' Till
	26.00' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 7010, Bot EL 166.58
MTA Bot EL 170.35
Grout to EL 173.35

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/22/09
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

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

Element ID No.	Int-307
GS (EL)	189.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.16	EL
TOR:	163.17	EL
Time Start:	14:15	
Time Finish:	14:31	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	163.17	EL
6 in/min Pull Rate to:	164.83	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.12	EL
Top of JGC:	186.12	EL
Time Start:	14:32	
Time Finish:	14:59	
Grouting Duration:	0:27	h:mm

Summary:

Constructed JG Height:	22.95	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/4/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-308
GS (EL)	189.11
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	160.50	EL
TOR:	160.54	EL
Time Start:	16:20	
Time Finish:	16:31	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	160.54	EL
6 in/min Pull Rate to:	165.13	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.19	EL
Top of JGC:	186.19	EL
Time Start:	16:33	
Time Finish:	17:06	
Grouting Duration:	0:33	h:mm

Summary:

Constructed JG Height:	25.65	ft

Depth	Notes
0 ft	0' Sand/Soil
	Visible NAPL
10 ft	
20 ft	
	24.04' Till (4:25pm)
30 ft	28.57' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
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
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	1.45		

Element ID No.	Int-309
GS (EL)	189.12
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	159.20	EL
TOR:	159.21	EL
Time Start:	14:13	
Time Finish:	14:28	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	159.21	EL
6 in/min Pull Rate to:	164.12	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.13	EL
Top of JGC:	186.13	EL
Time Start:	14:29	
Time Finish:	15:02	
Grouting Duration:	0:33	h:mm

Summary:

Constructed JG Height:	26.92	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	27.35' Till (2:19pm)
30 ft	29.91' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-310
GS (EL)	189.21
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	157.78	EL
TOR:	158.12	EL
Time Start:	8:43	
Time Finish:	9:09	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Bottom of JGC:	158.12	EL
6 in/min Pull Rate to:	164.21	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.22	EL
Top of JGC:	186.22	EL
Time Start:	9:18	
Time Finish:	9:54	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	28.10	ft

Depth	Notes
0 ft	0' Sand/Soil
	Layers of cementitious material
10 ft	Visible NAPL
20 ft	
	26.87' Till (8:54)
30 ft	31.09' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
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:	Partly Sunny
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	1.46		

Element ID No.	Int-311
GS (EL)	189.09
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.09	EL
Bottom of ISS:	180.59	EL
Nozzle:	159.23	EL
TOR:	159.23	EL
Time Start:	12:45	
Time Finish:	13:12	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	159.23	EL
6 in/min Pull Rate to:	164.15	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.24	EL
Top of JGC:	186.24	EL
Time Start:	13:13	
Time Finish:	13:50	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	27.01	ft

Depth	Notes
0 ft	Cementitious Material
	8.5' Sand (12:51pm)
10 ft	
20 ft	
	26.85' Till (1:03pm)
30 ft	29.86' TOR
40 ft	
50 ft	
60 ft	

Notes:

Sampled at 20' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
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:	Partly Sunny
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	1.46		

Element ID No.	Int-312
GS (EL)	189.28
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.28	EL
Bottom of ISS:	170.78	EL
Nozzle:	158.41	EL
TOR:	158.42	EL
Time Start:	11:16	
Time Finish:	11:56	
Drilling Duration:	0:40	h:mm

Grouting Parameters:

Bottom of JGC:	158.42	EL
6 in/min Pull Rate to:	164.41	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	174.52	EL
Top of JGC:	174.52	EL
Time Start:	11:58	
Time Finish:	12:22	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	16.10	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	11:28am
	18.5' Sand (11:42am)
20 ft	
	27.22' Till (11:44am)
30 ft	30.86' TOR
40 ft	
50 ft	
60 ft	

Notes:

Specific Density - 20' - 1.77; 18' - 1.53; 17' - 1.42; 16' - 1.44

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/15/10
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:	44 and 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	1.46		

Element ID No.	INT 313
GS (EL)	188.17
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:	182.17	EL
Nozzle:	159.63	EL
TOR:	159.67	EL
Time Start:	7:50	
Time Finish:	8:03	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	159.63	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.17	EL
12 in/min Pull Rate to:	185.48	EL
Depth to Top of JGC:	185.48	EL
Time Start:	8:15	
Time Finish:	8:50	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	25.85	ft
Number of Overlaps:	3	

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

Notes:

This hole was drilled deeper than planed due to naple in the return

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/15/10
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:	44 and 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	1.46		

Element ID No.	Int 314
GS (EL)	188.16
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
Nozzle:	161.62	EL
TOR:	161.66	EL
Time Start:	10:14	
Time Finish:	10:23	
Drilling Duration:	0:09	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	161.62	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.16	EL
12 in/min Pull Rate to:	185.17	EL
Depth to Top of JGC:	185.17	EL
Time Start:	10:15	
Time Finish:	10:52	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	23.55	ft
Number of Overlaps:	2	

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

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/15/10
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:	
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	1.46		

Element ID No.	INT-315
GS (EL)	188.58
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
Nozzle:	163.38	EL
TOR:	163.38	EL
Time Start:	1:05	
Time Finish:	1:21	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	163.38	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.69	EL
Depth to Top of JGC:	185.69	EL
Time Start:	1:21	
Time Finish:	1:49	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	22.31	ft
Number of Overlaps:	2	

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

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/16/10
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 and 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	1.49		

Element ID No.	INT-316
GS (EL)	188.53
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:	174.03	EL
Nozzle:	165.50	EL
TOR:	165.53	EL
Time Start:	7:58	
Time Finish:	8:20	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	165.50	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.64	EL
Depth to Top of JGC:	185.64	EL
Time Start:	8:20	
Time Finish:	8:43	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	20.14	ft
Number of Overlaps:	2	

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

Notes:

Drilled extra footage due the napple

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 1/8/10
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

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

Element ID No.	Int-317
GS (EL)	189.33
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	157.21	EL
Bottom:	157.21	EL
Time Start:	15:23	
Time Finish:	15:36	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	157.21	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.33	EL
12 in/min Pull Rate to:	186.44	EL
Top of JGC:	186.44	EL
Time Start:	15:37	
Time Finish:	16:13	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	29.23	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	32.12' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 157.21 (4XY11)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/12/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-318
GS (EL)	189.78
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.32	EL
Bottom:	156.32	EL
Time Start:	13:41	
Time Finish:	13:57	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	156.32	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.78	EL
12 in/min Pull Rate to:	186.89	EL
Top of JGC:	186.89	EL
Time Start:	13:58	
Time Finish:	14:35	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	30.57	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	33.46' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 157.21 (4-XY-11)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/21/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-319
GS (EL)	188.89
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.80	EL
Bottom:	156.80	EL
Time Start:	19:19	
Time Finish:	19:42	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	156.80	EL
6 in/min Pull Rate to:	160.45	EL
8 in/min Pull Rate to:	163.88	EL
12 in/min Pull Rate to:	186.00	EL
Top of JGC:	186.00	EL
Time Start:	19:43	
Time Finish:	20:21	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	29.20	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	29.00' Till
	32.09' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Sampled at 25' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/21/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-320
GS (EL)	188.6
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	155.96	EL
Bottom:	155.96	EL
Time Start:	17:11	
Time Finish:	17:28	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	155.96	EL
6 in/min Pull Rate to:	161.66	EL
8 in/min Pull Rate to:	163.63	EL
12 in/min Pull Rate to:	185.71	EL
Top of JGC:	185.71	EL
Time Start:	17:30	
Time Finish:	18:09	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	29.75	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	28.84' Till
	32.64' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/21/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-321
GS (EL)	188.85
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.01	EL
Bottom:	156.01	EL
Time Start:	21:27	
Time Finish:	21:40	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	156.01	EL
6 in/min Pull Rate to:	157.39	EL
8 in/min Pull Rate to:	163.88	EL
12 in/min Pull Rate to:	185.90	EL
Top of JGC:	185.90	EL
Time Start:	21:41	
Time Finish:	22:18	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	29.89	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	31.67' Till
	32.84' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
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

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

Element ID No.	Int-322
GS (EL)	188.81
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.57	EL
Bottom:	156.57	EL
Time Start:	18:35	
Time Finish:	18:58	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	156.57	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.81	EL
12 in/min Pull Rate to:	185.86	EL
Top of JGC:	185.86	EL
Time Start:	18:59	
Time Finish:	19:33	
Grouting Duration:	0:34	h:mm

Summary:

Constructed JG Height:	29.29	ft

Depth	Notes
0 ft	Sand/Soil with layers of cementitious material
10 ft	
20 ft	
	24.33' Sand/Soil (6:51pm)
30 ft	30.30' Till
	32.24' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target Depth - 8-L-6, Bot EL 156.58

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/11/09
SHEET: 1 OF 2
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

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

Element ID No.	Int-323
GS (EL)	188.7
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
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
Bottom:	156.45	EL
Time Start:	19:51	
Time Finish:	20:04	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	156.45	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.73	EL
12 in/min Pull Rate to:	175.81	EL
Top of JGC:	175.81	EL
Time Start:	20:04	
Time Finish:	20:19	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	19.36	ft

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	
	32.25' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target Depth - 8-L-6, Bot EL 156.58

8:19pm - Grouting stopped at 12.89' bgs. Silo pumped did not shut off and filled mixer with dry portland. Shut down to clean out tank.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/14/09
SHEET: 2 OF 2
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:	Partly Sunny
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	1.46		

Element ID No.	Int-323
GS (EL)	189.45
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	175.34	EL
Bottom:	175.34	EL
Time Start:	12:10	
Time Finish:	12:12	
Drilling Duration:	0:02	h:mm

Grouting Parameters:

Bottom of JGC:	175.34	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.53	EL
Top of JGC:	186.53	EL
Time Start:	12:21	
Time Finish:	12:35	
Grouting Duration:	0:14	h:mm

Summary:

Constructed JG Height:	11.19	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/14/09
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:	Partly Sunny
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	1.46		

Element ID No.	Int-324
GS (EL)	188.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.50	EL
Bottom:	156.50	EL
Time Start:	12:54	
Time Finish:	13:07	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	156.50	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.88	EL
12 in/min Pull Rate to:	186.03	EL
Top of JGC:	186.03	EL
Time Start:	13:13	
Time Finish:	13:51	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	29.53	ft

Depth	Notes
0 ft	
10 ft	12.00' Cementitious Material
20 ft	
30 ft	29.00' Very Hard Layer (~6in)
	32.38' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 156.58 (8-L-6)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Cloudy
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	1.46		

Element ID No.	Int-325
GS (EL)	189.29
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	153.92	EL
Bottom:	153.92	EL
Time Start:	20:12	
Time Finish:	20:19	
Drilling Duration:	0:07	h:mm

Grouting Parameters:

Bottom of JGC:	153.92	EL
6 in/min Pull Rate to:	154.35	EL
8 in/min Pull Rate to:	164.36	EL
12 in/min Pull Rate to:	186.37	EL
Top of JGC:	186.37	EL
Time Start:	20:20	
Time Finish:	21:05	
Grouting Duration:	0:45	h:mm

Summary:

Constructed JG Height:	32.45	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
	35.37' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 154.02 (8-I-6)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Cloudy
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	1.46		

Element ID No.	Int-326
GS (EL)	189.45
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.45	EL
Bottom of ISS:	180.95	EL
Nozzle:	153.89	EL
Bottom:	153.89	EL
Time Start:	21:18	
Time Finish:	21:23	
Drilling Duration:	0:05	h:mm

Grouting Parameters:

Bottom of JGC:	153.89	EL
6 in/min Pull Rate to:	154.43	EL
8 in/min Pull Rate to:	164.48	EL
12 in/min Pull Rate to:	186.53	EL
Top of JGC:	186.53	EL
Time Start:	21:23	
Time Finish:	22:10	
Grouting Duration:	0:47	h:mm

Summary:

Constructed JG Height:	32.64	ft

Depth	Notes
0 ft	0' Cementitious Material
	8.5' Sand/Soil
10 ft	
20 ft	
30 ft	35.56' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 154.02 (8-I-6)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Cloudy
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.	Int-328
GS (EL)	190.21
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.88	EL
Bottom:	156.88	EL
Time Start:	9:30	
Time Finish:	9:42	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Bottom of JGC:	156.88	EL
6 in/min Pull Rate to:	158.75	EL
8 in/min Pull Rate to:	165.31	EL
12 in/min Pull Rate to:	187.19	EL
Top of JGC:	187.19	EL
Time Start:	9:45	
Time Finish:	10:24	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	30.31	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	31.62' Till
	33.33' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 156.93 (7-P-9)

Sampled

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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: Raining
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.	Int-329
GS (EL)	189.2
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.20	EL
Bottom of ISS:	184.28	EL
Nozzle:	156.82	EL
Bottom:	156.82	EL
Time Start:	19:07	
Time Finish:	19:14	
Drilling Duration:	0:07	h:mm

Grouting Parameters:

Bottom of JGC:	156.82	EL
6 in/min Pull Rate to:	159.80	EL
8 in/min Pull Rate to:	164.23	EL
12 in/min Pull Rate to:	186.21	EL
Top of JGC:	186.21	EL
Time Start:	19:22	
Time Finish:	20:03	
Grouting Duration:	0:41	h:mm

Summary:

Constructed JG Height:	29.39	ft

Depth	Notes
0 ft	0' Cementitious Material
	4.92' Soil
10 ft	
20 ft	
30 ft	30.93' Till
	32.38' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 156.93 (7-P-8)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Raining
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	1.46		

Element ID No.	Int-330
GS (EL)	189.38
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	160.08	EL
Bottom:	160.08	EL
Time Start:	18:18	
Time Finish:	18:23	
Drilling Duration:	0:05	h:mm

Grouting Parameters:

Bottom of JGC:	160.08	EL
6 in/min Pull Rate to:	160.95	EL
8 in/min Pull Rate to:	164.43	EL
12 in/min Pull Rate to:	186.49	EL
Top of JGC:	186.49	EL
Time Start:	18:24	
Time Finish:	18:56	
Grouting Duration:	0:32	h:mm

Summary:

Constructed JG Height:	26.41	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	28.63' Till
	29.30' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 160.24 (N15)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Raining
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.	Int-331
GS (EL)	189.96
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.89	EL
Bottom:	156.89	EL
Time Start:	12:08	
Time Finish:	12:22	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Bottom of JGC:	156.89	EL
6 in/min Pull Rate to:	165.12	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	187.01	EL
Top of JGC:	187.01	EL
Time Start:	12:23	
Time Finish:	13:04	
Grouting Duration:	0:41	h:mm

Summary:

Constructed JG Height:	30.12	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	25.71' Till
40 ft	33.07' Final Depth
50 ft	
60 ft	

Notes:

Drill to EL 156.93 (7008)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Raining
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	1.46		

Element ID No.	Int-332
GS (EL)	188.98
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	160.11	EL
Bottom:	160.11	EL
Time Start:	15:05	
Time Finish:	15:16	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	160.11	EL
6 in/min Pull Rate to:	164.05	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.06	EL
Top of JGC:	186.06	EL
Time Start:	15:17	
Time Finish:	15:48	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	25.95	ft

Depth	Notes
0 ft	0' Cementitious Material
	7' Sand/Soil
10 ft	
20 ft	
30 ft	28.87' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 160.24 (N15)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Raining
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	1.45		

Element ID No.	Int-333
GS (EL)	188.94
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	188.94	EL
Bottom of ISS:	162.22	EL
Nozzle:	156.92	EL
Bottom:	156.92	EL
Time Start:	13:30	
Time Finish:	14:11	
Drilling Duration:	0:41	h:mm

Grouting Parameters:

Bottom of JGC:	156.92	EL
6 in/min Pull Rate to:	159.28	EL
8 in/min Pull Rate to:	166.14	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	166.14	EL
Time Start:	14:16	
Time Finish:	14:33	
Grouting Duration:	0:17	h:mm

Summary:

Constructed JG Height:	9.22	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
	26.72' Sand/Soil (2:02pm)
30 ft	31.68' Till
	32.02' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 160.24 (N15)

Encountered cementitious material to 26.72' bgs. Consulted with WRSC and Compass, grouted to 23' bgs and took mud balance samples. 28.7' - 1.62; 25' - 1.45; 23' - 1.46

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/30/09
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:	Raining
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	1.46		

Element ID No.	Int-334
GS (EL)	189.23
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	160.19	EL
Bottom:	160.19	EL
Time Start:	16:15	
Time Finish:	16:31	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	160.19	EL
6 in/min Pull Rate to:	164.26	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.38	EL
Top of JGC:	186.38	EL
Time Start:	16:32	
Time Finish:	17:03	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	26.19	ft

Depth	Notes
0 ft	0' Sand/Soil
	Layers of cementitious material
10 ft	
20 ft	
	27.71' Till (4:27pm)
30 ft	29.04' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 160.24 (N15)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/24/09
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:	Cloudy
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	1.46		

Element ID No.	Int-335
GS (EL)	189.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	153.84	EL
Bottom:	153.84	EL
Time Start:	10:37	
Time Finish:	10:57	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	153.84	EL
6 in/min Pull Rate to:	158.94	EL
8 in/min Pull Rate to:	164.89	EL
12 in/min Pull Rate to:	186.02	EL
Top of JGC:	186.02	EL
Time Start:	10:58	
Time Finish:	11:40	
Grouting Duration:	0:42	h:mm

Summary:

Constructed JG Height:	32.18	ft

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	35.17' FInal Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 153.9

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/24/09
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:	Cloudy
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	1.46		

Element ID No.	Int-336
GS (EL)	189.19
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	155.89	EL
Bottom:	155.89	EL
Time Start:	12:21	
Time Finish:	12:45	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	155.89	EL
6 in/min Pull Rate to:	159.14	EL
8 in/min Pull Rate to:	164.19	EL
12 in/min Pull Rate to:	186.24	EL
Top of JGC:	186.24	EL
Time Start:	12:45	
Time Finish:	13:24	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	30.35	ft

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	33.30' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/24/09
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:	Cloudy
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	1.46		

Element ID No.	Int-337
GS (EL)	189.26
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.78	EL
Bottom:	156.78	EL
Time Start:	13:37	
Time Finish:	13:58	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	156.78	EL
6 in/min Pull Rate to:	161.18	EL
8 in/min Pull Rate to:	164.26	EL
12 in/min Pull Rate to:	186.27	EL
Top of JGC:	186.27	EL
Time Start:	14:00	
Time Finish:	14:37	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	29.49	ft

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	28.73' Till
	32.48' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 156.79

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/23/09
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:	Cloudy
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	1.46		

Element ID No.	Int-338
GS (EL)	189.59
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	153.53	EL
Bottom:	153.53	EL
Time Start:	20:40	
Time Finish:	21:10	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	153.53	EL
6 in/min Pull Rate to:	158.09	EL
8 in/min Pull Rate to:	164.66	EL
12 in/min Pull Rate to:	186.77	EL
Top of JGC:	186.77	EL
Time Start:	21:15	
Time Finish:	21:48	
Grouting Duration:	0:33	h:mm

Summary:

Constructed JG Height:	33.24	ft

Depth	Notes
0 ft	0' Sand/Soil with layers of cementitious material
10 ft	
20 ft	
30 ft	34.39' Till
	36.02' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 153.9

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/24/09
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:	Cloudy
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	1.46		

Element ID No.	Int-339
GS (EL)	189.04
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	153.87	EL
Bottom:	153.87	EL
Time Start:	8:48	
Time Finish:	9:07	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	153.87	EL
6 in/min Pull Rate to:	157.15	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.95	EL
Top of JGC:	185.95	EL
Time Start:	9:09	
Time Finish:	9:44	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	32.08	ft

Depth	Notes
0 ft	Layers of sand/soil and cementitious material
10 ft	
20 ft	
30 ft	
	35.17' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Drill to EL 153.9

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/21/09
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.	Int-340
GS (EL)	189.24
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:	135.49	EL
Depth to Bottom:	135.49	EL
Time Start:	12:24	
Time Finish:	12:33	
Drilling Duration:	0:09	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.49	EL
6 in/min Pull Rate to:	136.94	EL
8 in/min Pull Rate to:	164.34	EL
12 in/min Pull Rate to:	186.35	EL
Depth to Top of JGC:	186.35	EL
Time Start:	12:33	
Time Finish:	13:50	
Grouting Duration:	1:17	h:mm

Summary:

Constructed JG Height:	50.86	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	53.75' Final Depth
60 ft	

Notes:

Target Bot El 135.52 (8P4)

Technican Signature: Matthew Calvi

MORETRENCH

DATE: 10/23/09
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:	Cool, Cloudy
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	1.46		

Element ID No.	Int-341
GS (EL)	189.54
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:	132.72	EL
Depth to TOR:	132.73	EL
Time Start:	8:15	
Time Finish:	8:49	
Drilling Duration:	0:34	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.73	EL
6 in/min Pull Rate to:	141.61	EL
8 in/min Pull Rate to:	164.57	EL
12 in/min Pull Rate to:	186.55	EL
Depth to Top of JGC:	186.55	EL
Time Start:	8:49	
Time Finish:	10:15	
Grouting Duration:	1:23	h:mm

Summary:

Constructed JG Height:	53.82	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	48.13' Till
	56.81' TOR
60 ft	

Notes:

Sampled at 20' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/26/09
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	1.46		

Element ID No.	Int-342
GS (EL)	189.29
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.29	EL
Bottom of ISS:	149.06	EL
Nozzle:	133.42	EL
TOR:	133.43	EL
Time Start:	14:16	
Time Finish:	15:07	
Drilling Duration:	0:51	h:mm

Grouting Parameters:

Bottom of JGC:	133.43	EL
6 in/min Pull Rate to:	142.41	EL
8 in/min Pull Rate to:	152.94	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	152.94	EL
Time Start:	15:08	
Time Finish:	15:48	
Grouting Duration:	0:40	h:mm

Summary:

Constructed JG Height:	19.51	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' ISS Auger Column N6
10 ft	
20 ft	
30 ft	
40 ft	40.23' Sand (2:53pm)
50 ft	48.65' Till
	55.86' TOR
60 ft	

Notes:

Partial thru N6, ISS Bot EL 149.87
MTA ISS Bot EL 149.06
Grout to EL 152.87

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/21/09
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.	Int-343
GS (EL)	189.35
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:	135.38	EL
Depth to Bottom:	135.38	EL
Time Start:	10:46	
Time Finish:	10:55	
Drilling Duration:	0:09	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.38	EL
6 in/min Pull Rate to:	139.51	EL
8 in/min Pull Rate to:	164.38	EL
12 in/min Pull Rate to:	186.50	EL
Depth to Top of JGC:	186.50	EL
Time Start:	10:55	
Time Finish:	12:09	
Grouting Duration:	1:14	h:mm

Summary:

Constructed JG Height:	51.12	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	53.97' Final Depth
60 ft	

Notes:

Target Bot EL 135.52 (8P4)

Technican Signature: Matthew Calvi

MORETRENCH

DATE: 10/22/09
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, Cool
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.	Int-344
GS (EL)	189.96
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:	134.39	EL
Depth to Bottom:	134.39	EL
Time Start:	10:50	
Time Finish:	11:04	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.39	EL
6 in/min Pull Rate to:	139.44	EL
8 in/min Pull Rate to:	165.48	EL
12 in/min Pull Rate to:	187.04	EL
Depth to Top of JGC:	187.04	EL
Time Start:	11:04	
Time Finish:	12:27	
Grouting Duration:	1:18	h:mm

Summary:

Constructed JG Height:	52.65	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/ Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	52.45' Till
	55.57' Final Depth
60 ft	

Notes:

Target Bot EL 135.52 (8P4)

Technican Signature: Matthew Calvi

MORETRENCH

DATE: 10/22/09
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	1.49		

Element ID No.	Int-345
GS (EL)	189.75
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:	134.57	EL
Depth to Bottom:	134.57	EL
Time Start:	12:48	
Time Finish:	12:59	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.57	EL
6 in/min Pull Rate to:	138.37	EL
8 in/min Pull Rate to:	165.03	EL
12 in/min Pull Rate to:	186.80	EL
Depth to Top of JGC:	186.80	EL
Time Start:	12:59	
Time Finish:	14:20	
Grouting Duration:	1:21	h:mm

Summary:

Constructed JG Height:	52.23	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/ Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	54.85' Till
	55.18' Final Depth
60 ft	

Notes:

Target Bot EL 135.52 (8P4)

Technican Signature: Matthew Calvi

MORETRENCH

DATE: 12/8/09
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

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	Int-346
GS (EL)	187.64
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	187.64	EL
Bottom of ISS:	156.27	EL
Nozzle:	147.22	EL
TOR:	147.26	EL
Time Start:	7:56	
Time Finish:	8:34	
Drilling Duration:	0:38	h:mm

Grouting Parameters:

Bottom of JGC:	147.26	EL
6 in/min Pull Rate to:	157.14	EL
8 in/min Pull Rate to:	159.29	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	159.29	EL
Time Start:	8:36	
Time Finish:	8:59	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	12.03	ft

Depth	Notes
0 ft	Auger Column 8-I-8
10 ft	
20 ft	
30 ft	31.37' Sand (8:20am)
	33.42' Till
40 ft	40.38' TOR (8:28am)
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 8-I-8, Bot EL 156.09
MTA Bot EL 156.27
Grout to EL 159.27

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/8/09
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-347
GS (EL)	187.63
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	146.52	EL
TOR:	146.53	EL
Time Start:	11:54	
Time Finish:	12:22	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Bottom of JGC:	146.53	EL
6 in/min Pull Rate to:	156.17	EL
8 in/min Pull Rate to:	162.76	EL
12 in/min Pull Rate to:	184.78	EL
Top of JGC:	184.78	EL
Time Start:	12:23	
Time Finish:	13:26	
Grouting Duration:	1:03	h:mm

Summary:

Constructed JG Height:	38.25	ft

Depth	Notes
0 ft	Cementitious Material
	5.55' Sand/Soil
10 ft	
20 ft	
30 ft	31.50' Till
40 ft	41.10' TOR
50 ft	
60 ft	

Notes:

No grout return during drilling

Sampled at 30' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/9/09
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
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.	Int-348
GS (EL)	188.62
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	148.69	EL
TOR:	148.70	EL
Time Start:	20:20	
Time Finish:	20:55	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	148.70	EL
6 in/min Pull Rate to:	155.55	EL
8 in/min Pull Rate to:	163.62	EL
12 in/min Pull Rate to:	185.67	EL
Top of JGC:	185.67	EL
Time Start:	21:07	
Time Finish:	22:02	
Grouting Duration:	0:55	h:mm

Summary:

Constructed JG Height:	36.97	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	33.13' Till
40 ft	39.92' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/19/09
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:	Overcast
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	1.46		

Element ID No.	Int-349
GS (EL)	190
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	190.00	EL
Bottom of ISS:	178.50	EL
Nozzle:	140.79	EL
TOR:	141.50	EL
Time Start:	13:44	
Time Finish:	14:16	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	140.79	EL
6 in/min Pull Rate to:	154.00	EL
8 in/min Pull Rate to:	165.20	EL
12 in/min Pull Rate to:	183.11	EL
Top of JGC:	183.11	EL
Time Start:	14:17	
Time Finish:	15:26	
Grouting Duration:	1:09	h:mm

Summary:

Constructed JG Height:	42.32	ft
Number of Overlaps:		

Depth	Notes
0 ft	ISS Auger Column 4-XZ-12
10 ft	11.5' Sand/Soil (1:50)
20 ft	
30 ft	
	37.5' Till (1:58)
40 ft	
	48.5' TOR
50 ft	
60 ft	

Notes:

Partial thru ISS Auger Column 4-XZ-12, Bot EL 181.76
MTA Bot EL 178.50
Grout to EL 184.76

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/13/10
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

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	Int-350
GS (EL)	189.60
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.40	EL
TOR:	156.41	EL
Time Start:	17:41	
Time Finish:	17:49	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Bottom of JGC:	156.41	EL
6 in/min Pull Rate to:	157.71	EL
8 in/min Pull Rate to:	164.60	EL
12 in/min Pull Rate to:	186.68	EL
Top of JGC:	186.68	EL
Time Start:	17:50	
Time Finish:	18:29	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	30.27	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	33.19' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/14/10
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.	Int-351
Grout Mix:	Water	380	lit		GS (EL)	189.72
	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:	164.89	EL
TOR:	164.89	EL
Time Start:	18:51	
Time Finish:	19:18	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	164.89	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	166.75	EL
12 in/min Pull Rate to:	186.80	EL
Top of JGC:	186.80	EL
Time Start:	19:19	
Time Finish:	19:42	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	21.91	ft

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

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 1/14/10
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.	Int-352
Grout Mix:	Water	380	lit		GS (EL)	189.73
	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:	164.33	EL
TOR:	164.33	EL
Time Start:	19:53	
Time Finish:	20:08	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	164.33	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	166.76	EL
12 in/min Pull Rate to:	186.84	EL
Top of JGC:	186.84	EL
Time Start:	20:08	
Time Finish:	20:33	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	22.51	ft

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

Notes:

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:	Cool & Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	INT 353
Grout Mix:	Water	380	lit		GS (EL)	188.16
	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:	154.16	EL
TOR:	154.16	EL
Time Start:	13:33	
Time Finish:	13:50	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	154.16	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.16	EL
12 in/min Pull Rate to:	185.16	EL
Top of JGC:	185.16	EL
Time Start:	13:50	
Time Finish:	15:17	
Grouting Duration:	0:40	h:mm

Summary:

Constructed JG Height:	31.00	ft

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
	34' TOR (1:44 PM)
	35.52' Final Depth (1:50 PM)
40 ft	
50 ft	
60 ft	

Notes:

NAPL present @ depth; Compass directed MTA to drill to bedrock

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 2/18/10
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, Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	Int-354
Grout Mix:	Water	380	lit		GS (EL)	187.74
	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:	159.66	EL
Bottom:	159.66	EL
Time Start:	17:17	
Time Finish:	17:25	
Drilling Duration:	0:08	h:mm
Grouting Parameters:		
Bottom of JGC:	159.66	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	162.67	EL
12 in/min Pull Rate to:	184.74	EL
Top of JGC:	184.74	EL
Time Start:	17:26	
Time Finish:	17:55	
Grouting Duration:	0:29	h:mm
Summary:		
Constructed JG Height:	25.08	ft

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	28.08' Final Depth
40 ft	
50 ft	
60 ft	

Notes:

Target EL 160.62 (8-A-5)

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:	
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.	INT-400
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:	NA	EL
Depth of Nozzle:	165.69	EL
Depth to Bottom:	164.19	EL
Time Start:	2:02	
Time Finish:	2:21	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	165.69	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	174.21	EL
Depth to Top of JGC:	174.21	EL
Time Start:	2:21	
Time Finish:	2:32	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	8.52	ft
Number of Overlaps:	2	

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

Notes:

Technican Signature: Steve Hawkins

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.	INT-401
GS (EL)	188.4
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:	169.14	EL
Depth to Bottom:	167.64	EL
Time Start:	10:00	
Time Finish:	10:04	
Drilling Duration:	0:04	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	169.14	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.19	EL
Depth to Top of JGC:	186.19	EL
Time Start:	10:05	
Time Finish:	10:29	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	17.05	ft
Number of Overlaps:	2	

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

Notes:

THESE COLUMNS WERE JETTED TO REMOVE SOFT ISS MATERIAL

Technican Signature: Steve Hawkins

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	1.48	

Element ID No.	INT-402
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:	169.67	EL
Depth to Bottom:	168.17	EL
Time Start:	12:14	
Time Finish:	12:21	
Drilling Duration:	0:07	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	169.67	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:	12:22	
Time Finish:	12:40	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	15.94	ft
Number of Overlaps:	2	

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

Notes:

THIS COLUMN WAS JETTED TO REMOVE LOW STRENGTH ISS

Technican Signature: Steve Hawkins

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.	INT-403
GS (EL)	188.06
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:	173.56	EL
Depth of Nozzle:	173.56	EL
Depth to Bottom:	172.06	EL
Time Start:	7:51	
Time Finish:	7:58	
Drilling Duration:	0:07	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	173.56	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.12	EL
Depth to Top of JGC:	186.12	EL
Time Start:	7:58	
Time Finish:	8:12	
Grouting Duration:	0:14	h:mm

Summary:

Constructed JG Height:	12.56	ft
Number of Overlaps:	2	

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

Notes:

THIS WAS A JETTED INSIDE SOFTER ISS COLUMNS

Technican Signature: Steve Hawkins

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 AND 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.	INT-404
GS (EL)	187.9
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:	174.38	EL
Depth of Nozzle:	174.38	EL
Depth to Bottom:	172.88	EL
Time Start:	8:26	
Time Finish:	8:31	
Drilling Duration:	0:05	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	174.38	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.10	EL
Depth to Top of JGC:	186.10	EL
Time Start:	8:31	
Time Finish:	8:44	
Grouting Duration:	0:13	h:mm

Summary:

Constructed JG Height:	11.72	ft
Number of Overlaps:	4	

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

Notes:

THIS COLUMN WAS JETTED INSIDE THE EXISTING ISS THAT WAS LOW STRENGTH

Technican Signature: Steve Hawkins

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:	
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.	INT-405
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:	179.21	EL
Depth of Nozzle:	179.21	EL
Depth to Bottom:	177.71	EL
Time Start:	9:48	
Time Finish:	9:53	
Drilling Duration:	0:05	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	179.21	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.30	EL
Depth to Top of JGC:	186.30	EL
Time Start:	9:53	
Time Finish:	10:01	
Grouting Duration:	0:08	h:mm

Summary:

Constructed JG Height:	7.09	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 THE EXISTING ISS TO GAIN STRENGTH

Technican Signature: Steve Hawkins

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:	
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.	INT-406
GS (EL)	188.16
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:	177.04	EL
Depth of Nozzle:	177.04	EL
Depth to Bottom:	175.54	EL
Time Start:	11:10	
Time Finish:	11:12	
Drilling Duration:	0:02	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	177.04	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.55	EL
Depth to Top of JGC:	186.55	EL
Time Start:	11:12	
Time Finish:	11:23	
Grouting Duration:	0:11	h:mm

Summary:

Constructed JG Height:	9.51	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 TO REPLACE EXISTING ISS THAT WAS POSSIBLY SOFT

Technican Signature: Steve Hawkins

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.	INT-407
GS (EL)	186.86
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:	169.08	EL
Depth of Nozzle:	169.08	EL
Depth to Bottom:	167.58	EL
Time Start:	1:00	
Time Finish:	1:06	
Drilling Duration:	0:06	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	169.08	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.06	EL
Depth to Top of JGC:	185.06	EL
Time Start:	1:06	
Time Finish:	1:25	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	15.98	ft
Number of Overlaps:	3	

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

Notes:

THIS COLUMN WAS JETTED TO POSSIBLY REMOVE LOW STRENGTH ISS

Technican Signature: Steve Hawkins