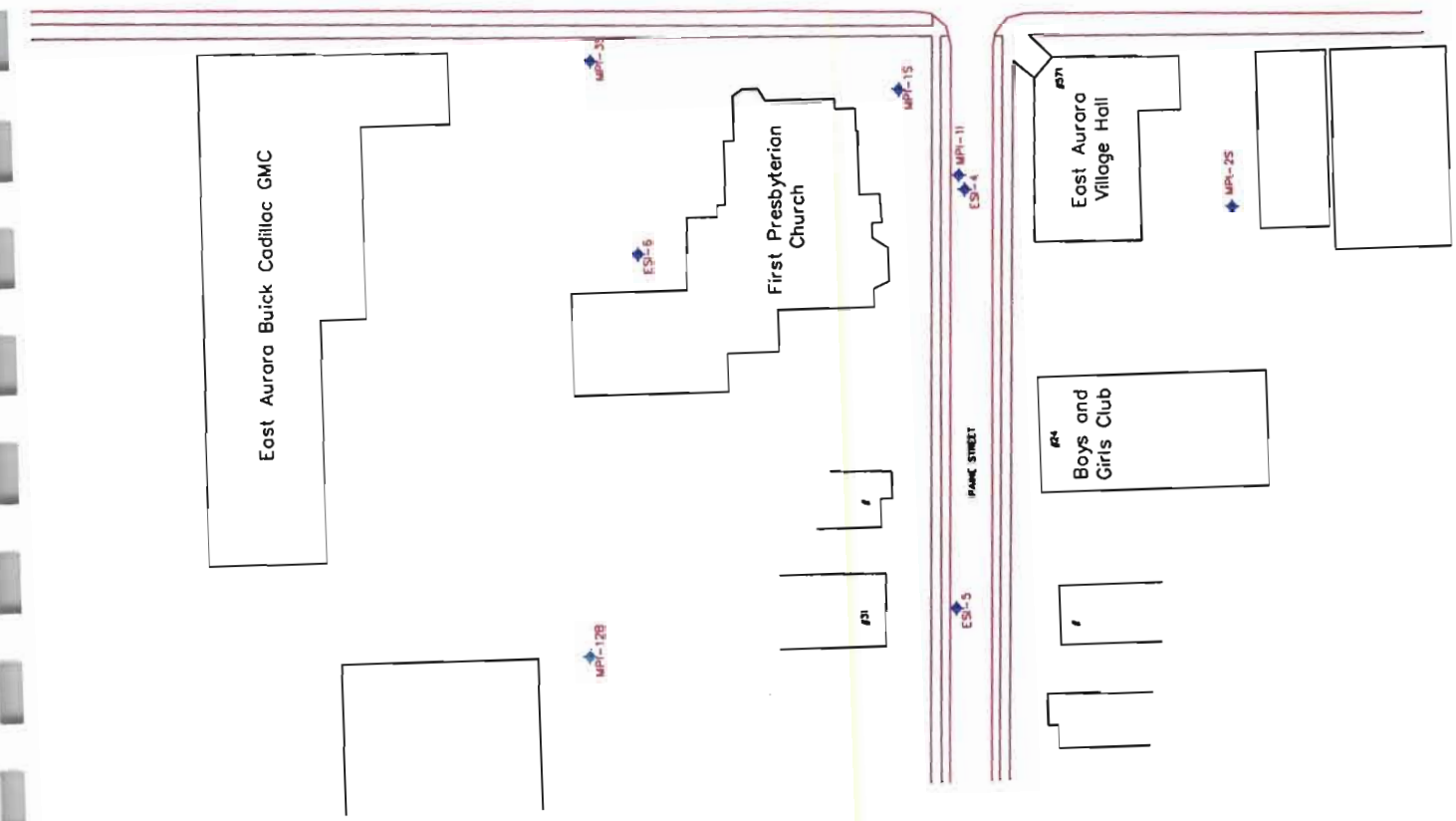


Groundwater Sampling Data  
 Mr. C's Site  
 East Aurora(V), Erie County  
 Site No. 915157

10/03

MW Name	AKA	Depth-BGS'	Installed By	X COORD	Y COORD	PCE Conc.
MPI-1S		20	MPI	491089	1008826	41
MPI-1I		41	MPI	491034	1008787	NA
MPI-2S		18.5	MPI	491008	1008618	NA
MPI-3S		18	MPI	491112	1009020	0
MPI-4S		21	MPI	491256	1008888	2
MPI-4I		42	MPI	491251	1008896	690
MPI-4D		78.5	MPI	491263	1008895	0
MPI-5S		18	MPI	491418	1008770	36
MPI-5I		42	MPI	491419	1008762	0
MPI-6S		23	MPI	491428	1009034	1200
MPI-7I		39.5	MPI	491197	1008637	4
MPI-8S		20	MPI	491422	1008864	NA
MPI-9S		20	MPI	491501	1008864	NA
MPI-10B	MW10B	32	MPI	491257	1008766	320
MPI-11B		30	MPI	491472	1009259	NA
MPI-12B		35	MPI	490737	1009030	NA
MPI-13B	MW13B	32.3	MPI	491726	1009152	3.2
MPI-14B	MW14B	30	MPI	491720	1008996	NA
MPI-15B				491482	1009354	NA
MW-1		22	Earth Dimen.	491254	1008820	NA
MW-4		18	Earth Dimen.	491194	1008815	9
MW-5		15	Bflo Drilling	491206	1008794	2
MW-6		17	Bflo Drilling	491236	1008824	74
MW-7		17	Bflo Drilling	491266	1008754	3300
MW-8		17	Bflo Drilling	491372	1008829	310
MW-9		17	Bflo Drilling	491388	1008725	NA
MW-10				491208	1008770	0
MW-11				491228	1008753	NA
MW-14				491245	1008753	NA
PW-2			E&E	491267	1008787	1400
PW-3			E&E	491313	1008765	850
PW-4			E&E	491323	1008902	200
PW-5			E&E	491358	1008880	2000
PW-6			E&E	491378	1009039	37
PW-7			E&E	491415	1009023	800
PW-8			E&E	491458	1009105	110
ESI-1		18	Empire Soils	491218	1008506	NA
ESI-2		19	Empire Soils	491423	1008537	NA
ESI-3		17	Empire Soils	491193	1008631	440
ESI-4		15	Empire Soils	491022	1008792	63
ESI-5		15	Empire Soils	490760	1008798	0.52
ESI-6		17	Empire Soils	490990	1008993	230
RW-1		28	MPI	491229	1008668	74
RW-2		28	MPI	491388	1009018	NA
OW-B		27.5	MPI	491397	1009019	NA
OW-C		28	MPI	491445	1009040	NA

NA - Not analyzed during sampling event  
 MPI-13B & 14B may also be identified as MW-13 & 14 respectively



# BOREHOLE LOG MPI-1S

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 03/17/84 - 03/18/84  
 DRILLING METHOD: 6.25-inch ID HSA  
 LOGGED/CHECKED BY: JPH/RHO  
 SURFACE ELEVATION: 915.38ft.

## SYMBOLS AND DEFINITIONS

BS Split Spoon (2in.ID)  
 BS3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAB Combustible Gas reading in auger

—x— Penetration Resistance ('N' Blows/1.0 ft.)  
 o— Moisture Content ('M' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 6"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
1	914.38	TOPSOIL Dark brown CLAYEY SILT, trace fine sand, grass rootlets		1 SS	1							JHS=0.1 ppm
2	913.38	TILL Light-moderate brown CLAYEY SILT, little clay, little subangular fine gravel, firm, CL		2 SS	2	0.8	5					JHS=0.2 ppm
3	912.38	Light brown-olive moist CLAYEY SILT, some fine-coarse sand, little fine shale subangular gravel, blocky texture, stiff, CL		2 SS	2	0.8	13					JHS=0.1 ppm
4	911.38	Grayish brown moist CLAYEY SILT, w/iron staining & mottling, trace-little clay, some plasticity, little subrounded gravel to 3/4" dia., little fine-course sand, stiff, CL		3 SS	3	1.8	11					JHS=0.3 ppm
5	910.38	Moderate olive-brown moist SANDY SILT, little-some fine gravel, numerous black shale clasts to 1/4" thick x 1" dia., trace-little clay, some coarse-very fine sand, loose, SM		4 SS	4	1.2	10					JHS=0.1 ppm
6	908.38	Moderate brown wet v.fine-fine SAND, trace silt, loose, SP-SM		5 SS	2	0.3	4					JHS=0.2 ppm
7	907.38	Moderate brown wet mostly fine, trace v.fine SAND w/faint bedding fabric as lighter, finer sand partings <1/4" thickness, liquifies when disturbed, loose, SP-SM w/SAND layer w/trace fine round gravel to 1/4" from 13.7-13.9' and brown wet SILTY SAND layer w/mostly v.fine sand, trace fine, liquifies when disturbed, compact, SP-SM, from 13.9-14.0'		6 SS	2	1.3	5					JHS=0.5 ppm
8	906.38	Moderate gray wet v.fine SAND, trace-occ.fine gravel, trace-little silt, liquifies when disturbed, compact, SM		7 SS	5	2.0	12					JHS=0.8 ppm
9	905.38	SILT & v.fine SAND, light brown-tan		8 SS	1	1.8	10					JHS=0.8 ppm
10	904.38	Brown wet v.fine-fine SAND, trace medium, w/very fine sand partings as bedding fabric, liquifies when disturbed, loose, SP-SM		8 SS	WR	2.0	3					
11	903.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
12	902.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
13	901.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
14	900.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
15	899.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
16	898.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
17	897.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
18	896.38	Brownish gray wet v.fine-fine SAND, trace silt & v.fine sand as bedding fabric, loose, SM		8 SS	WR	2.0	3					
19	895.38	Boring complete at 20'. Set well.		10 SS	3	1.4	8					

# BOREHOLE LOG MPI-1D

*No mw installed*

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: New York State Survey Grid

CLIENT: NYSDEC  
 DRILLING DATES: 02/18/84 - 2/22/84  
 DRILLING METHOD: 4.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 813.95ft.

## SYMBOLS AND DEFINITIONS

8B Split Spoon (2in.ID)  
 8B3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in aspirator

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.			
1	812.85	TOPSOIL moist dark brown SILT LOAM, soft, fine size roots, ML		1 SS	1								JHS=0.2 ppm	
2	811.85	TILL Brown moist CLAYEY SILT, with 15-40% subrounded to subangular gravel, trace-little sand, blocky, Firm, CL becoming stiff at 2.0'		2 SS	2 3 5	1.2	5							JHS=0.3 ppm
3	810.85			3 SS	5 5 8 8	1.1	11							JHS=0.1 ppm
4	809.85			4 SS	3 4 5 8	1.1	8							JHS=0.1 ppm
5	808.85			5 SS	5 4 4 3		8							JHS=0.1 ppm
6	807.85	no recovery, stiff		6 SS	2 2 2		4							JHS=0.1 ppm
7	806.85			7 SS	8 5 4 5	1.5	8							JHS=0.3 ppm
8	805.85	no recovery, very loose		8 SS	3 5 5 8	1.0	10							JHS=0.2 ppm
9	804.85			9 SS	4 4 8 4	0.8	10							JHS=0.1 ppm
10	803.85	STRATIFIED Brown moist SILTY SANDY GRAVEL w/80-80% gravel, little sand and silt, loose when disturbed, GM		10 SS	2 4 8 13	1.4	12							JHS=0.1 ppm
11	802.85	Brown wet SILTY SAND, mostly fine, little very fine sand, trace iron staining in layers, occasional silt lenses ~1/4" thick, loose, liquifies when disturbed, SM		11 SS	7 5 8 8	1.4	11							JHS=0.1 ppm
12	801.85			12 SS										
13	800.85			13 SS										
14	899.85			14 SS										
15	898.85	Brown wet SILTY SAND, mostly fine-little medium and very fine sand, loose, liquifies when disturbed, SM		15 SS										
16	897.85			16 SS										
17	896.85	Brown wet SILTY SAND, mostly fine, little very fine sand, compact, liquifies when disturbed, SM		17 SS										
18	895.85	occasional coarse Gravel (~1" in diameter)		18 SS										
19	894.85			19 SS										
20	893.85			20 SS										

# BOREHOLE LOG MPI-1D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: New York State Survey Grid

CLIENT: NYSDEC  
 DRILLING DATES: 02/18/84 - 2/22/84  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 813.85ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHB HNU reading in jar headspace  
 GAB Combustible Gas reading in casing

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
21	882.85	STRATIFIED Brown wet SAND, trace-little silt, medium-fine sand, compact, liquifies when disturbed, SP-SM  Becoming loose at 22'  Becoming very loose at 24'		9 SS	3 5 8 7	1.3	13					JHS=0.1 ppm
22	881.85											JHS=0.1 ppm
23	880.85			10 SS	2 3 8 8	0.4	8					JHS=0.1 ppm
24	888.85											JHS=0.1 ppm
25	888.85			11 SS	WH 1 2 3	0.8	3					JHS=0.5 p
26	887.85	Brownish gray wet SILTY SAND, mostly very fine sand, little fine, trace-no medium size, loose, readily liquifies when disturbed, SM		12 SS	1 2 4 5	1.0	8					JHS=0.5 ppm
27	888.85											JHS=0.5 ppm
28	885.85	Alternating grayish brown to brownish gray wet SILTY SAND, with silt partings ~8-10 layers per 1/2" thick, mostly fine and very fine sand, some silt, compact, liquifies when disturbed, SM		13 SS	4 8 8 8	1.2	18					JHS=0.5 ppm
29	884.85											JHS=0.5 ppm
30	883.85											JHS=0.5 ppm
31	882.85	Grayish brown wet SAND, mostly fine and medium sand, trace silt, compact, loose when disturbed, SP-SM		14 SS	5 7 8 8	1.8	15					JHS=0.5 ppm
32	881.85											JHS=0.5 ppm
33	880.85	Brownish gray wet SAND, mostly fine-medium sand, trace-no silt, occasional silt lenses, compact, loose when disturbed, SP		15 SS	WH WH 2 3	1.3	2					JHS=0.4 ppm
34	879.85											JHS=0.4 ppm
35	878.85	Brownish gray wet SANDY SILT, mostly silt, some very fine sand and little fine sand, occasional clayey silt lenses, very soft, liquifies when disturbed, ML		16 SS	8 4 5 8	1.5	8					JHS=0.5 ppm
36	877.85											JHS=0.5 ppm
37	876.85	becoming stiff at 34' becoming loose at 38'		17 SS	2 2 3 3	0.8	5					JHS=0.4 ppm
38	875.85											JHS=0.4 ppm
39	874.85			18 SS	3 3 3 3	1.3	8					
40	873.85											

# BOREHOLE LOG MPI-1D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0200-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: New York State Survey Grid

CLIENT: NYSDEC  
 DRILLING DATES: 02/18/84 - 2/22/84  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 813.85ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAB Combustible Gas reading in seeger

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
41	872.85	LAMINATED Gray wet CLAYEY SILT, with little fine sand, silt lenses ~1/8" thick, an occasional SAND lenses ~1/4-1" thick, soft, CL becoming firm at 42'		18 SS	3	1.4	4					JHS=0.5 ppm
42	871.85					2						JHS=0.5 ppm
43	870.85				20 SS	3	1.2	8				
44	868.85	Gray extremely moist SILTY CLAY with little-some silt, trace sand, stiff, CL		21 SS	3	1.3	5					JHS=0.5 ppm
45	868.85					2						JHS=0.5 ppm
46	867.85				22 SS	3	1.3	8				
47	866.85	Gray wet SAND, mostly medium sand, little fine, trace coarse, compact, loose when disturbed, SP		23 SS	2	1.2	17					JHS=0.4 ppm
48	865.85					8						JHS=0.5 ppm
49	864.85				24 SS	5	1.8	12				
50	863.85	Gray extremely moist SILTY CLAY, with little-some silt, trace sand, stiff, CL		25 SS	2	1.8	8					JHS=0.5 ppm
51	862.85					4						JHS=0.5 ppm
52	861.85				26 SS	5	1.8	8				
53	860.85	occasional medium SAND lenses ~2" thick, becoming firm at 54'		28 SS	1	1.8	8					JHS=0.5 ppm
54	859.85					2						JHS=0.5 ppm
55	858.85				29 SS	4	1.8	8				
56	857.85	Occasional gray extremely moist medium SAND lenses ~1-3" thick at 56.5', 57', 57.5', 58', and 58.5'		30 SS	2	1.8	5					JHS=0.5 ppm
57	856.85					2						JHS=0.5 ppm
58	855.85				31 SS	3	1.8	5				
59	854.85	becoming stiff at 58'		32 SS	WH	1.7	7					JHS=0.8 ppm
60	853.85				2							
				33 SS	5							

# BOREHOLE LOG MPI-1D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: New York State Survey Grid

CLIENT: NYSDEC  
 DRILLING DATES: 02/18/84 - 2/22/84  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 813.85ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAB Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA			ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8" RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
61	852.85	Gray extremely moist SILTY CLAY with little-some silt, trace sand, stiff, CL, with gray medium SAND partings approx 1-3" thick at 80', 80.5', 81', 82', and 82.5'	[Pattern]	28 SS	3 4 8 8	1.8	10				JHS=0.5 ppm
62	851.85	becoming firm at 82', medium SAND from 82-82.5'	[Pattern]								JHS=0.5 ppm
63	850.85	thinner SAND lenses at 83'	[Pattern]	30 SS	WH WH 5 5	1.5	5				JHS=0.5 ppm
64	848.85	thin medium sand partings at 84.8', 85', 85.1'.	[Pattern]								JHS=0.5 ppm
65	848.85		[Pattern]	31 SS	1 2 4 5	1.8	8				JHS=0.5 ppm
66	847.95	3" medium SAND lenses	[Pattern]								JHS=0.5 ppm
67	846.85		[Pattern]	ST			2.0				JHS=0.5 ppm
68	845.85	3" medium SAND lenses. Gray moist-extremely moist SILTY CLAY, little-some silt, occasional silt partings, soft, CL	[Pattern]								JHS=0.5 ppm
69	844.85		[Pattern]	32 SS	WH WH 2 8	1.8	2				JHS=0.7 ppm
70	843.85	Gray moist SAND from 70-70.5', mostly medium sand, loose, SP	[Pattern]								JHS=0.6 ppm
71	842.85	Gray wet SAND at 71.5, SP	[Pattern]	33 SS	1 2 5 8	1.8	7				JHS=0.7 ppm
72	841.85	Interlayered gray moist SILTY CLAY ~4-8" thick, w/little-some silt, soft, CL & SILTY SAND w/ little silt, mostly fine sand, very loose, liquifies when disturbed, SM	[Pattern]								JHS=0.6 ppm
73	840.85		[Pattern]	34 SS	WH 1 2 3	2.0	3				JHS=0.7 ppm
74	838.85	Gray moist SILTY CLAY, little silt, soft, CL	[Pattern]								JHS=0.6 ppm
75	838.85		[Pattern]	35 SS	WH 1 3 8	2.0	4				JHS=0.6 ppm
76	837.85	Gray moist SILTY SAND, very fine sand, compact, liquifies when disturbed, SM	[Pattern]								JHS=0.6 ppm
77	836.85	Gray moist CLAYEY SILT, some clay, occ v. thin fine sand partings, v. stiff, CL	[Pattern]								JHS=0.5 ppm
78	835.85	Gray moist SILTY SAND, some silt, mostly fine & very fine sand, compact, liquifies when disturbed, SM-ML	[Pattern]								JHS=0.5 ppm
79	834.85		[Pattern]	37 SS			1.7				
80	833.85	Gray wet SILTY CLAY, little silt, v. soft, CL	[Pattern]								

# BOREHOLE LOG MPI-1D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0208-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: New York State Survey Grid

CLIENT: NYSDEC  
 DRILLING DATES: 02/18/94 - 2/22/94  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 813.95ft.

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in segers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	SOIL DATA					ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / B*	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.			
81	832.85	Gray wet SANDY SILT, trace clay, some fine sand, occasional clayey silt parting ~1/4-1/2" thick, loose, liquifies when disturbed, SM		38 SS	WR WH WH 1	2.0	0						JHS=0.7 ppm	
82	831.85			Gray wet CLAYEY SILT tending toward SILTY CLAY, some clay, very soft, CL		39 SS	1 2 2 2	1.7	4					
83	830.85	40 SS				WR WR 1 5	2.0	1						JHS=0.5 ppm
84	829.85					41 SS		WR WR WH 3	2.0	0				
85	828.85	8-10 SILT partings ~0.2' in length. Laminated SILT parting		42 SS	WR WR WH 1			2.0	0					JHS=0.5 ppm
86	827.85			Gray wet SILT with little very fine sand, liquifies when disturbed, ML		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
87	826.85	Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.				42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
88	825.85			Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
89	824.85	Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.				42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
90	823.85			Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
91	822.85	Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.				42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
92	821.85			Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
93	820.85	Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.				42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
94	819.85			Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
95	818.85	Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.				42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
96	817.85			Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
97	816.85	Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.				42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
98	815.85			Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
99	814.85	Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.				42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm
100	813.85			Boring complete at 90.0'. Grouted hole with cement bentonite grout. Moved rig feet. Installed MPI-1L.		42 SS	WR WR WH 1	2.0	0					JHS=0.5 ppm



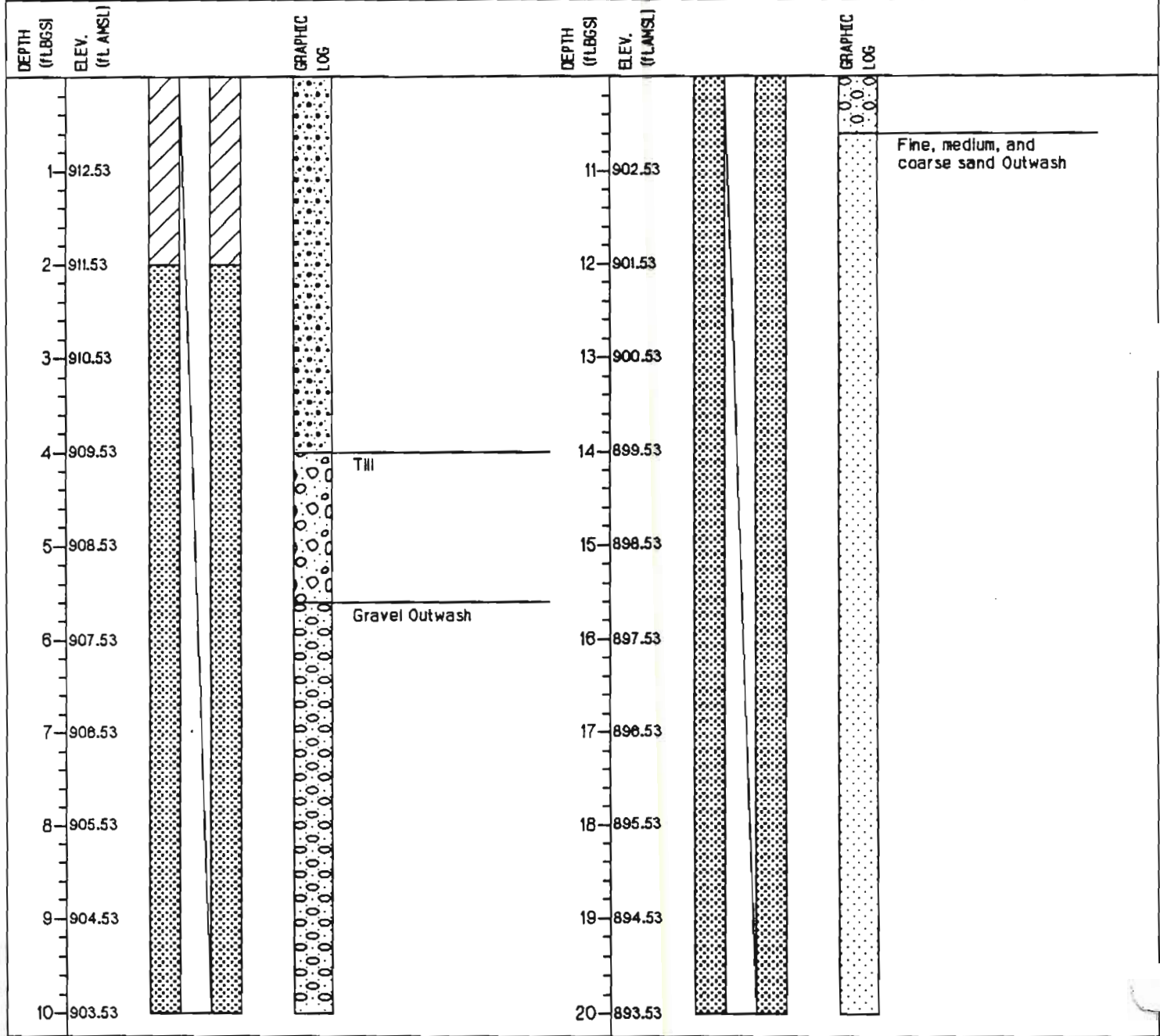
# WELL/BOREHOLE MPI-1I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 913.53ft.

## SYMBOLS AND DEFINITIONS

- |  |  |   |
|--|--|---|
| <p> BENTONITE-CEMENT BEAL<br/>0 to 2.0 feet</p> <p> BENTONITE BLURRY BEAL<br/>2.0 to 28.2 feet</p> <p> NORIE #00 BAND PACK<br/>28.2 to 41 feet</p> <p> 2-INCH DIAMETER BLOTTED (0.006" )SCREEN<br/>31.0 to 41.0 feet</p> | <p> 4-INCH DIAMETER CASING<br/>0 feet</p> <p> 2-INCH DIAMETER RISER<br/>0 to 31.0 Feet</p> <p> 8-INCH DIAMETER BOREHOLE<br/>0 feet</p> <p> 4-INCH DIAMETER BOREHOLE<br/>0 feet</p> | <p> GRAPHIC LOG<br/>refer to<br/>BOREHOLE LOG MPI-1D<br/>for a<br/>complete<br/>description</p> |
|--|--|---|












NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

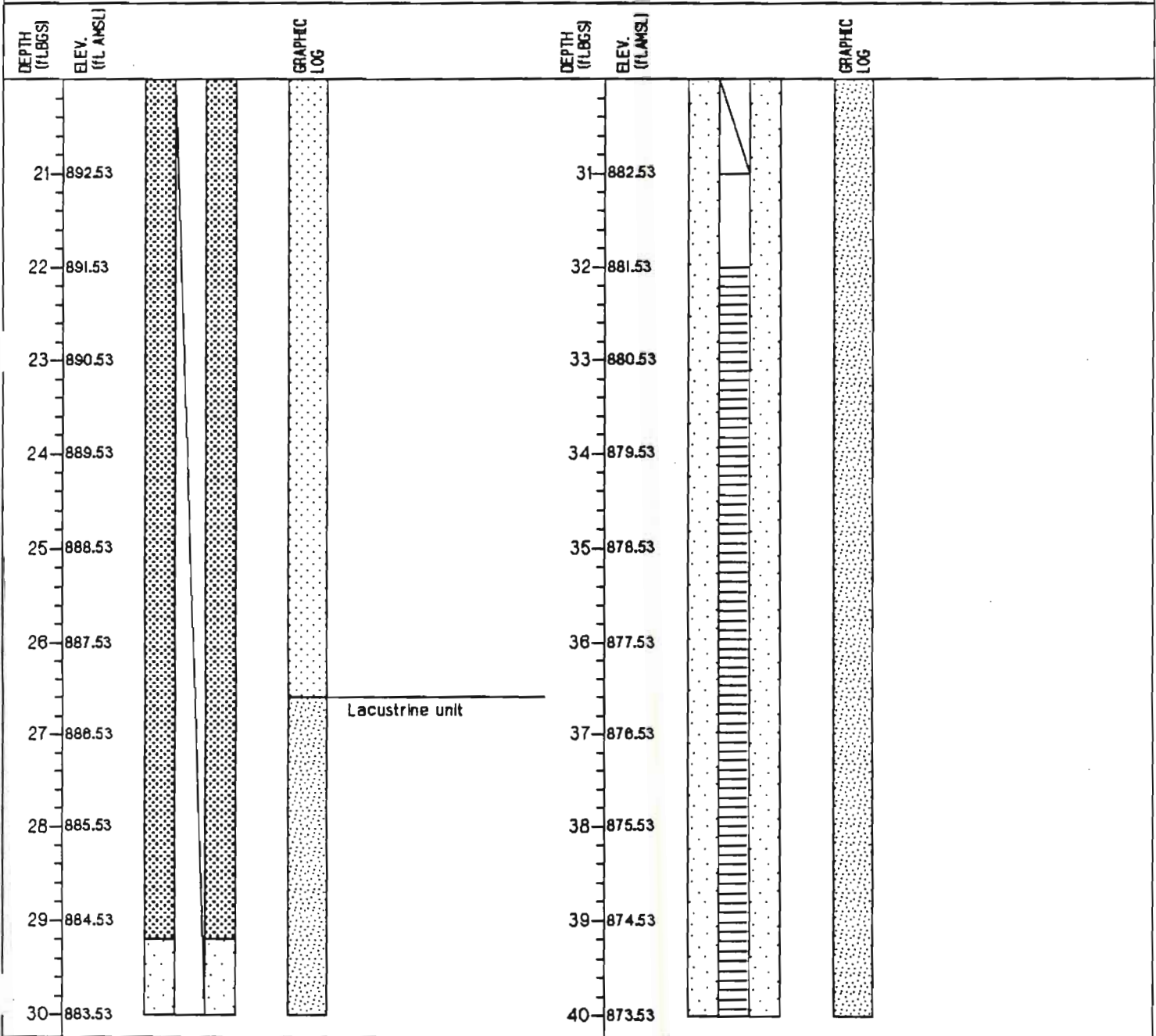
# WELL/BOREHOLE MPI-1I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 913.531t.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 2.0 feet	 4-INCH DIAMETER CASING 0 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-1D for a complete description
 BENTONITE SLURRY SEAL 2.0 to 28.2 feet	 2-INCH DIAMETER RISER 0 to 31.0 Feet	
 MORIE #00 SAND PACK 28.2 to 41 feet	 6-INCH DIAMETER BOREHOLE 0 feet	
 2-INCH DIAMETER BLOTTED (0.006" )SCREEN 31.0 to 41.0 feet	 4-INCH DIAMETER BOREHOLE 0 feet	












NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

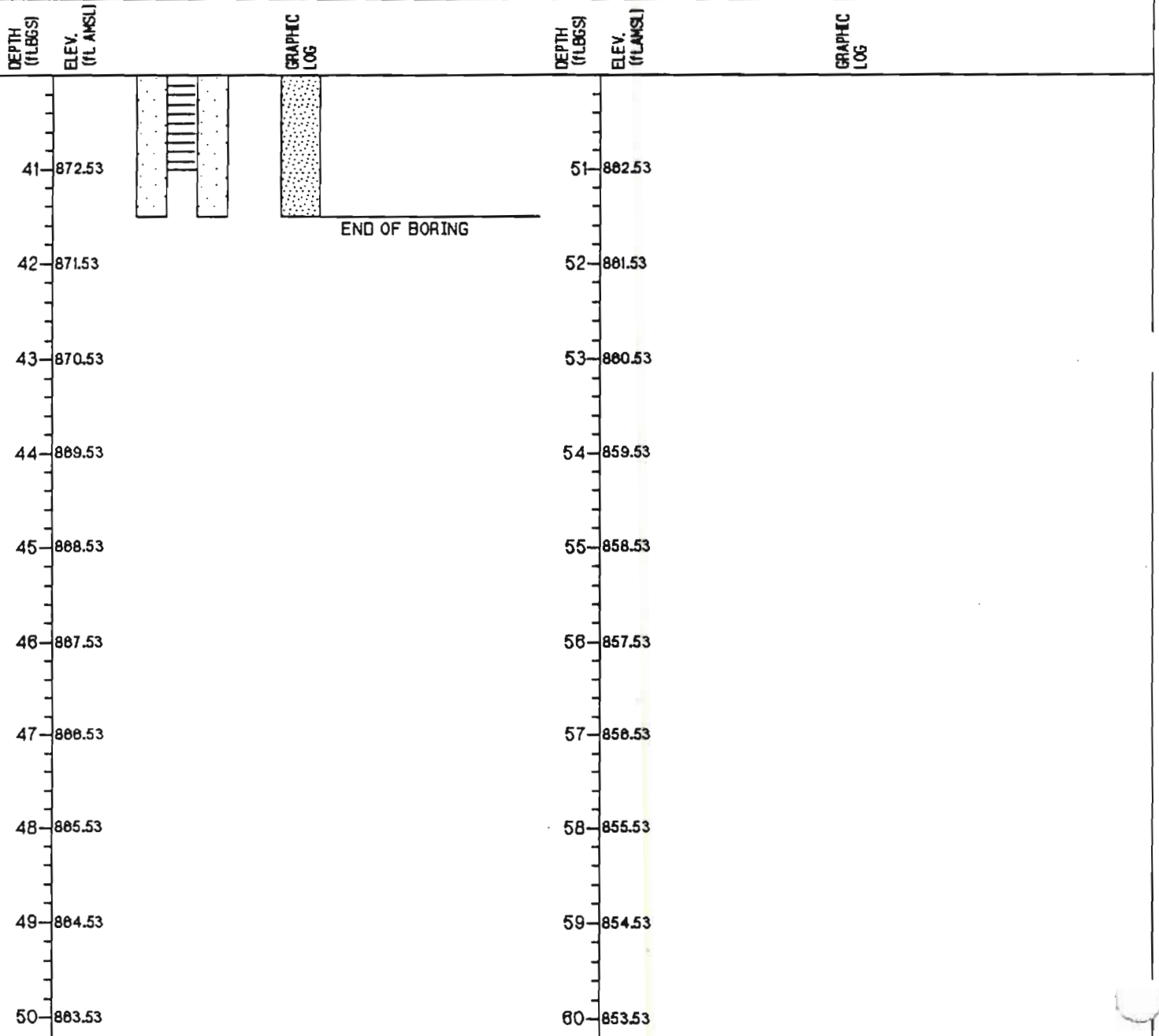
# WELL/BOREHOLE MPI-1I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0200-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 913.53ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 2.0 feet   BENTONITE SLURRY SEAL 2.0 to 20.2 feet   MORIE #00 SAND PACK 20.2 to 41 feet   2-INCH DIAMETER SLOTTED (0.000" )SCREEN 31.0 to 41.0 feet   4-INCH DIAMETER CASING 0 feet   2-INCH DIAMETER RISER 0 to 31.0 Feet   8-INCH DIAMETER BOREHOLE 0 feet   4-INCH DIAMETER BOREHOLE 0 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-ID for a complete description
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NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

# BOREHOLE LOG MPI-2S

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 03/14/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 817.34ft.

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SSS Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
1	818.34	BLACKTOP											JHS=0.3 ppm
		Light gray crystalline material (Salty) with low specific gravity		1 SS	8 7 4	1.0	13						JHS=0.3 ppm
2	815.34	TOPSOIL dark brown frozen loam w/white specks			1								JHS=0.3 ppm
3	814.34	TILL, brown moist CLAYEY SILT, little-some sand, little gravel, firm, CL		2 SS	2 3 3	0.8	5						JHS=0.3 ppm
4	813.34	Brown moist CLAYEY SILT, some sand, 25-40% gravel, stiff, CL			4								JHS=0.3 ppm
5	812.34	STRATIFIED brown moist SILTY SAND, mostly coarse sand, trace-little silt, loose when disturbed, loose, SM		3 SS	8 4 4	0.8	10						JHS=0.3 ppm
6	811.34	Brown moist SAND, mostly fine-medium sand, trace coarse, trace-no silt, loose when disturbed, very loose, SP-SM			3								JHS=0.3 ppm
7	810.34	Brown moist becoming wet at 11.0 SAND, mostly fine, little very fine sand, trace silt, liquifies when disturbed, loose, SP		4 SS	4 8 8	0.4	10						JHS=0.3 ppm
8	808.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP			1								JHS=0.3 ppm
9	808.34	Brown wet SILTY SAND, mostly fine & very fine sand, trace medium size, little silt, occasional Cobbles at 14.5'		5 SS	1 1 3	1.1	2						JHS=0.2 ppm
10	807.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP			1								JHS=0.2 ppm
11	806.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP		6 SS	1 3 3	1.5	4						JHS=0.3 ppm
12	805.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP			3								JHS=0.2 ppm
13	804.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP		7 SS	3 5 8	1.8	8						JHS=0.3 ppm
14	803.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP			1								JHS=0.2 ppm
15	802.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP		8 SS	12 14 17	1.1	28						JHS=0.2 ppm
16	801.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP			1								JHS=0.2 ppm
17	800.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP		9 SS	2 5 5	1.2	7						JHS=0.3 ppm
18	800.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP			2								JHS=0.3 ppm
19	800.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP		10 SS	3 5 7	1.4	8						JHS=0.3 ppm
20	807.34	Boring complete at 20' w/augers at 18.5'. Set well											

# BOREHOLE LOG MPI-3S

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 03/18/84  
 DRILLING METHOD: 6.25-Inch ID HSA  
 LOGGED/CHECKED BY: JPH/RHO  
 SURFACE ELEVATION: 814.78ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BS3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Retrieval

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in segers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
				SAMPLE NO. / RUN NO.	BLOWS / 6"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.			
1	813.78	TOPSOIL dark brown moist gray CLAYEY SILTY, trace fine gravel, trace-little clay		1 SS	1	12	3						JHS=0.1 ppm	
2	812.78	TILL brown ext. moist SANDY SILT, little fine-coarse sand trace-little gravel shale clasts, trace clay, blocky, v. loose, SM		2 SS	1	1	0.8	2						JHS=0.1 ppm
3	811.78	Light brown moist SANDY SILT, trace-little black shale gravel clasts, little very fine-coarse sand & trace clay, soft, ML		3 SS	1	4	1.1	11						
4	810.78	Light brown-olive moist SILTY SAND, w/iron stained mottling, little-some fine gravel to 1/4" diameter, little very fine-coarse sand, compact, SP-SM		4 SS	4	3	0	5						
5	808.78	No Recovery												
6	808.78	Grayish brown wet Sandy Gravel, fine-coarse sand, w/gravel, trace silt, mottled, iron stained, black shale gravel clasts to 1/2" dia., thin light gray silt parting to 1/2" loose when disturbed, compact, GW-GM		5 SS	4	2	1.0	13						JHS=0.8 ppm
7	807.78	Grayish brown wet GRAVEL, w/fine-coarse sand, little silt, black shale gravel clasts to 1/2" dia., lgt gray silt partings to 1/2", compact, GW-GM		6 SS	10	8	0.5	18						JHS=L8 ppm
8	806.78	Grayish brown wet fine-coarse GRAVEL w/1" diameter, some very fine-coarse sand, mottled, iron stains throughout, trace silt, compact, GW-GM		7 SS	10	12	1.4	28						JHS=L2 ppm
9	805.78	Gravel, subrounded to 1/4" diameter, compact, GP		8 SS	8	8	1.8	11						JHS=0.1 ppm
10	804.78	Orange-brown wet SAND, iron stained, v. fine-fine sand, trace-little silt, liquifies when disturbed, compact, SM		8 SS	8	5	1.8	11						JHS=0.1 ppm
11	803.78	Gray wet SAND, v. fine-fine sand, trace-little silt, liquifies when disturbed, compact, SM		9 SS	2	2	0.8	4						JHS=0.1 ppm
12	802.78	Gray wet SAND, v. fine sand, trace-little silt, occ. silty clay parting to 1/4" thick as bedding fabric, liquifies when disturbed, compact, SM												
13	801.78													
14	800.78													
15	899.78													
16	898.78													
17	897.78													
18	896.78													
19	895.78													
20	884.78	Boring complete at 18'. Set well												

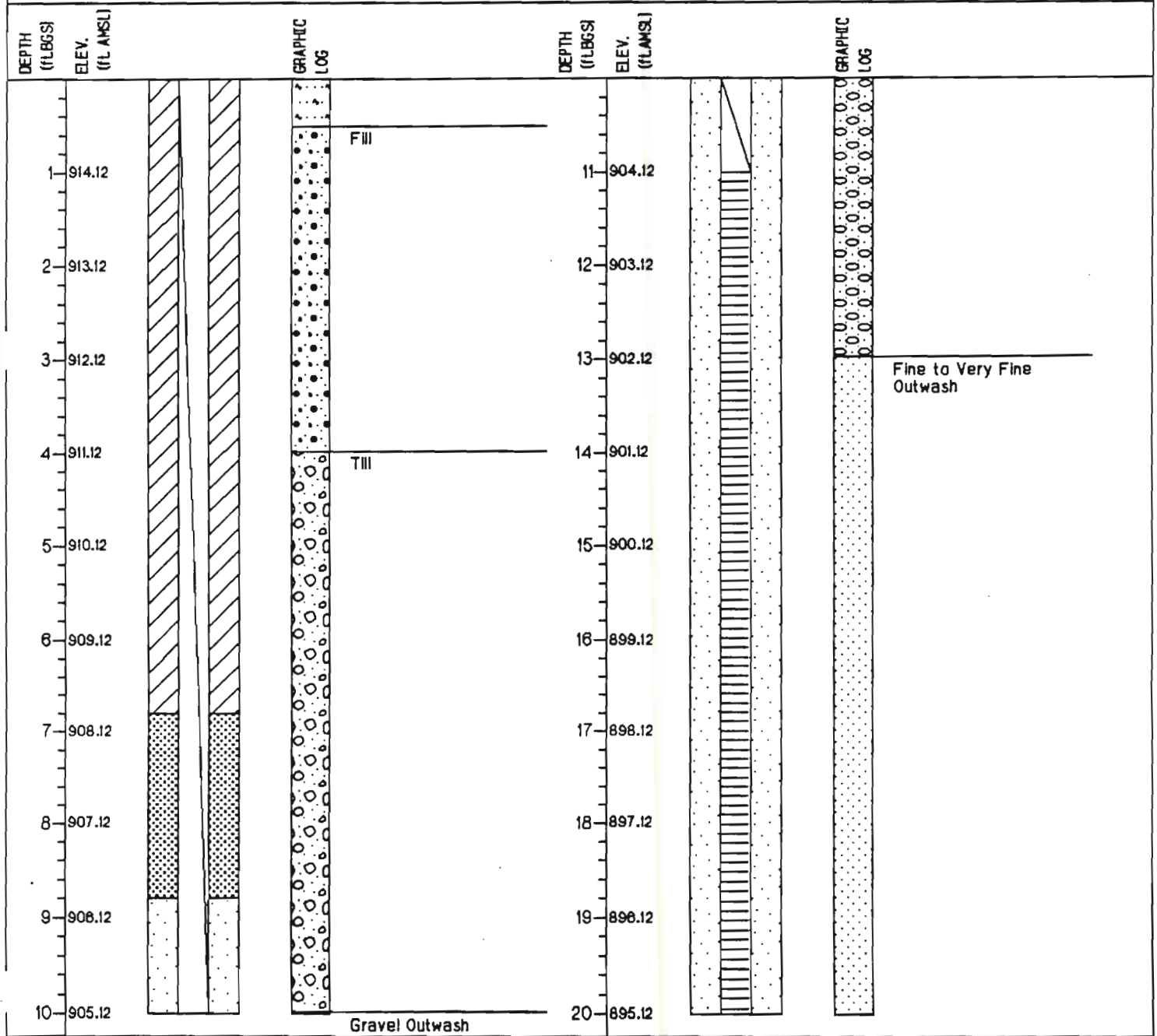
# WELL/BOREHOLE MPI-4S CONSTRUCTION DETAILS

PROJECT: MR. C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/18/94  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 915.12ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 0.6 feet	 BENTONITE PELLET SEAL 0.6 to 0.8 feet	 MORIE #0 SAND PACK 0.8 to 21.5 feet
 2-INCH DIAMETER BLOTTED (10.0") BSCREEN 11.0 to 21.0 feet	 2-INCH DIAMETER RISER 0 to 11.0 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-4D for a complete description



NOTES: 1. 0.7 ft. long by 8-in. diameter curb box extends to approx .7 ft BGS.

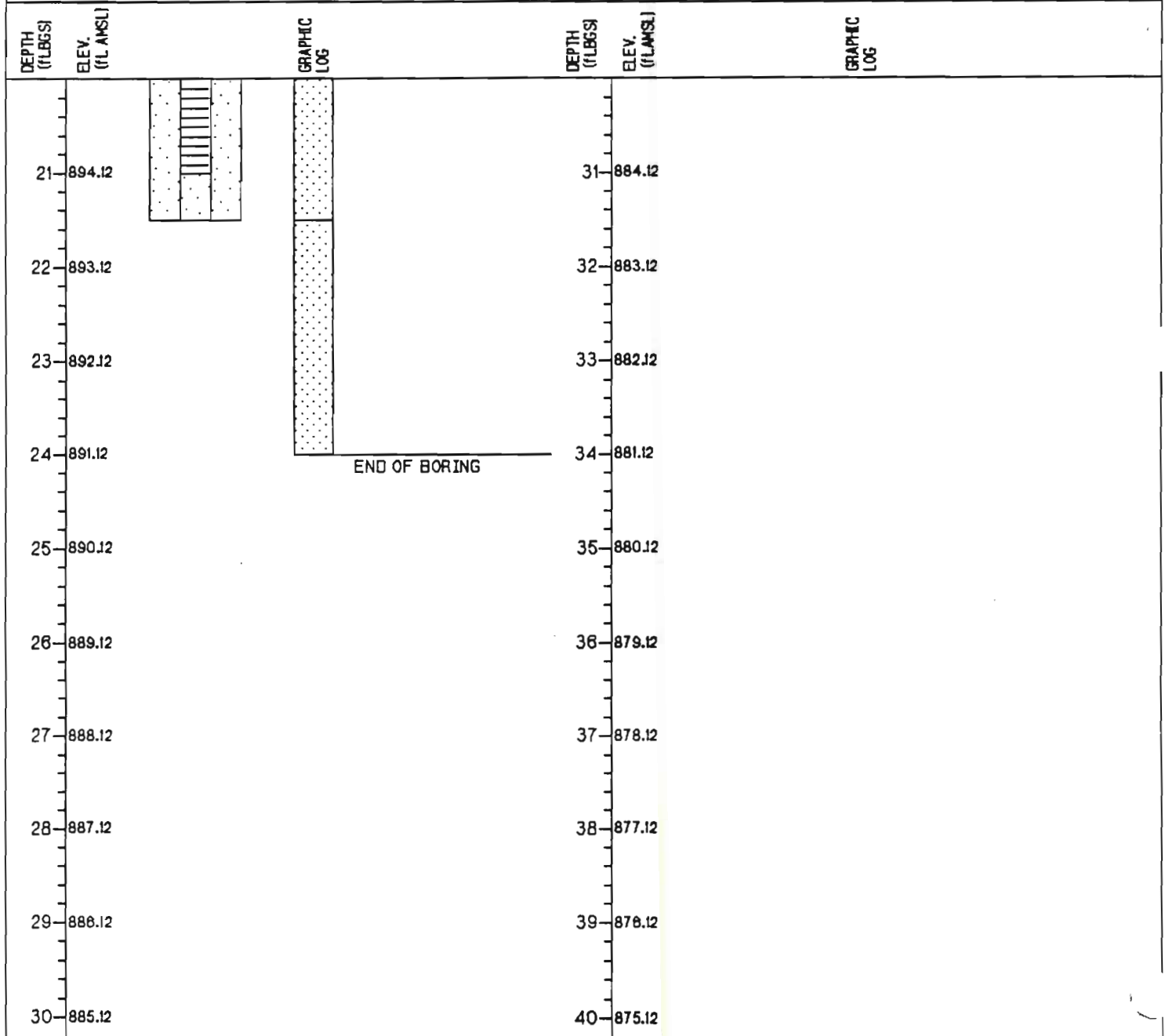
# WELL/BOREHOLE MPI-4S CONSTRUCTION DETAILS

PROJECT: MR. C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/18/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 815.12ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT BEAL 0 to 8.8 feet   BENTONITE PELLET BEAL 8.8 to 8.8 feet   NORIE #0 SAND PACK 8.8 to 21.5 feet   2-INCH DIAMETER BLOTTED (0.01" )SCREEN 11.0 to 21.0 feet   2-INCH DIAMETER RISER 0 to 11.0 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-4D for a complete description
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



NOTES: 1. 0.7 ft. long by 8-in. diameter curb box extends to approx .7 ft BGS.

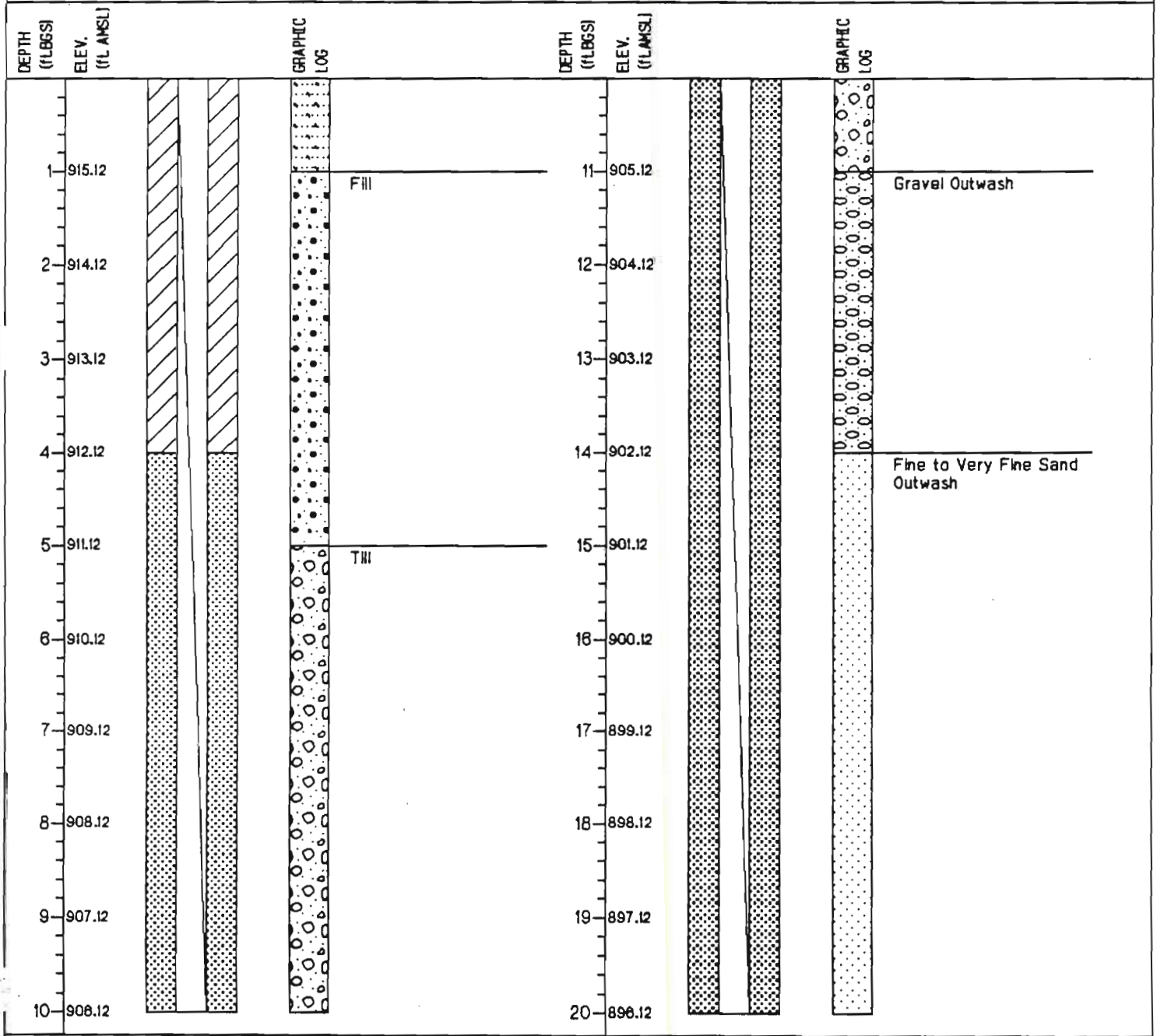
# WELL/BOREHOLE MPI-4I CONSTRUCTION DETAILS

PROJECT: MR. C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 918.12ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 4.0 feet	 4-INCH DIAMETER CASING	 GRAPHIC LOG refer to BOREHOLE LOG MPI-4D for a complete description
 BENTONITE SLURRY SEAL 4.0 to 29.6 feet	 2-INCH DIAMETER RISER 0 to 32.0 feet	
 MORIE #00 SAND PACK 29.6 to 42.5 feet	 8-INCH DIAMETER BOREHOLE	
 2-INCH DIAMETER BLOTTED (0.006") SCREEN 32.0 to 42.0 feet	 4-INCH DIAMETER BOREHOLE	



NOTES: 1. 0.7 ft. long by 8-in. diameter curb box extends to 0.5 ft. BGS.












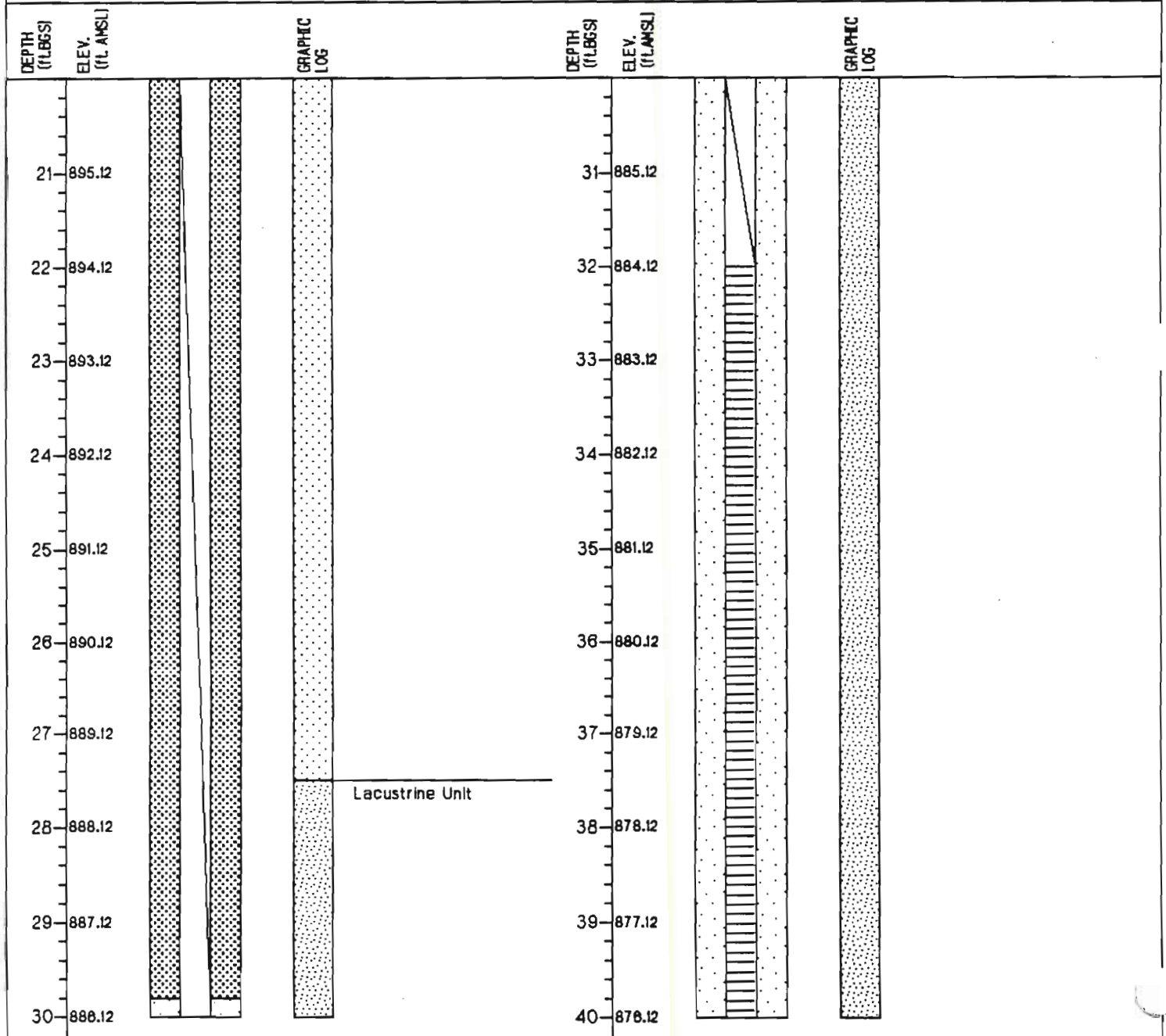
# WELL/BOREHOLE MPI-4I CONSTRUCTION DETAILS

PROJECT: MR. C CLEANERS  
 PROJECT NO.: 0286-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/94  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 918.12ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 4.0 feet	 4-INCH DIAMETER CASING   2-INCH DIAMETER RISER 0 to 32.0 feet   8-INCH DIAMETER BOREHOLE   4-INCH DIAMETER BOREHOLE	 BENTONITE BLURRY SEAL 4.0 to 28.6 feet   MORSE #00 SAND PACK 28.6 to 42.5 feet   2-INCH DIAMETER BLOTTED (0.006" )SCREEN 32.0 to 42.0 feet   GRAPHIC LOG refer to BOREHOLE LOG MPI-4D for a complete description
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






NOTES: 1. 0.7 ft. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

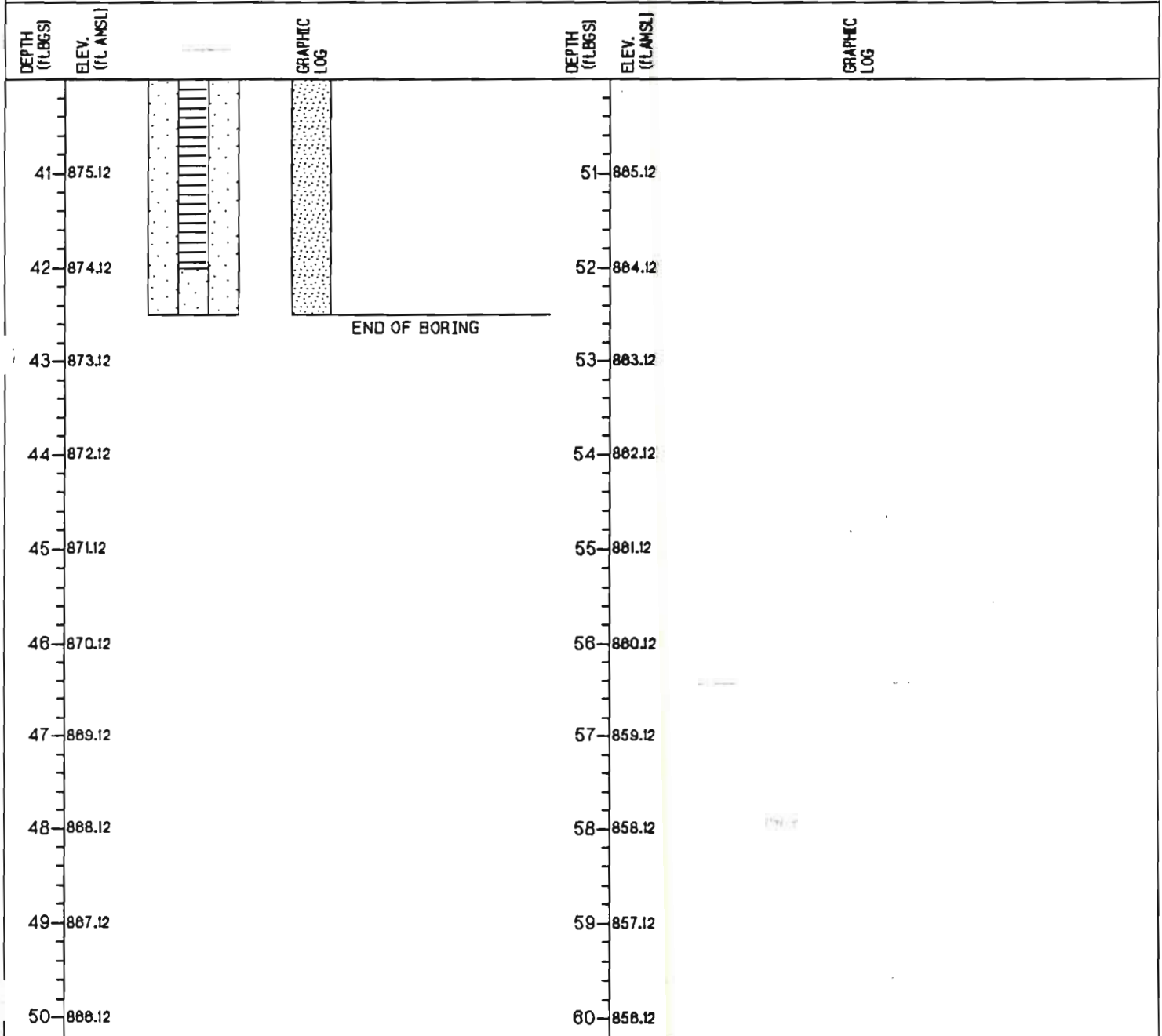
# WELL/BOREHOLE MPI-4I CONSTRUCTION DETAILS

PROJECT: MR. C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.12ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 4.0 feet   BENTONITE SLURRY SEAL 4.0 to 28.8 feet   MORIE #00 SAND PACK 28.8 to 42.5 feet   2-INCH DIAMETER SLOTTED (0.006" )SCREEN 32.0 to 42.0 feet   4-INCH DIAMETER CASING   2-INCH DIAMETER RISER 0 to 32.0 feet   6-INCH DIAMETER BOREHOLE   4-INCH DIAMETER BOREHOLE	 GRAPHIC LOG refer to BOREHOLE LOG MPI-4D for a complete description
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NOTES: 1. 0.7 ft. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

# BOREHOLE LOG MPI-4D

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 2/15/94 & 12/29/94 through 1/6/95  
 DRILLING METHOD: BOREHOLE FOR WELL, 10.25" HSA-43.5', 8" CASING  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 915.97 ft. NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SSS Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace

x---x Penetration Resistance ('N' Blows/ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft. BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / Ø"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
1	914.97	TOPSOIL dark brown (frozen from 0-.2), moist SILT LOAM, little sand, some roots, stiff, (CL-ML)		1 SS	3 4 7	0.3	11						JHS=.1
2	913.97												
3	912.97	no recovery, firm		SS	3 3 3	0.0	6						JHS=0
4	911.97												
5	910.97	FILL, dark brown moist CLAYEY SILT with trace ang to subang gravel and sand, noticed one piece brick frag, firm, (CL)		2 SS	2 3 3	1.0	6						JHS=0.2
6	909.97												
7	908.97	TILL, brown moist CLAYEY SILT with little sand and gravel, trace roots, stiff, (CL)		3 SS	5 7 7	0.5	14						JHS=0.1
8	907.97												
9	906.97	TILL, grayish brown moist CLAYEY SILT with 15-40% mostly angular shale gravel, trace to little sand, stiff, (CL)		4 SS	4 5 6	0.2	11						JHS=0.1
10	905.97												
11	904.97	STRATIFIED, Dark brown moist-extremely moist SILTY SANDY GRAVEL w40- 80% mostly subrounded gravel, little shale frag, little-some medium to coarse sand, little silt, trace clay, loose, (GM)		5 SS	2 3 4	0.9	7						JHS=0.2
12	903.97												
13	902.97	becoming wet at 12'		6 SS	2 3 3	0.8	8						JHS=0.1
14	901.97												
15	900.97	Brown wet SAND, mostly fine sand with trace medium, liquifies when disturbed, loose, (SP-SM)		7 SS	2 2 4	1.1	6						JHS=0.1
16	899.97												
17	898.97	becoming compact at 18'		8 SS	5 5 7	1.3	12						JHS=0.1
18	897.97												
19	896.97	Grayish brown wet SAND, mostly fine sand with trace very fine, liquifies when disturbed, compact, contains occasional lenses of SAND, mostly medium w/some fine sand, loose, (SP)		9 SS	2 3 5	1.4	8						JHS=0.1
20	895.97												

# BOREHOLE LOG MPI-4D

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 2/15/94 & 12/29/94 through 1/8/95  
 DRILLING METHOD: BOREHOLE FOR WELL, 10.25" HSA-43.5", 8" CA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 915.97 ft. NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 S53 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace

x---x Penetration Resistance ('N' Blows/1 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft. BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA			ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 6" RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
21	894.97	continued from page 1		10 SS	2 3 5 7	2.0	8				JHS=0.1
22	893.97										JHS=0.1
23	892.97			11 SS	1 5 5 7	1.0	10				JHS=0.8
24	891.97	Brownish gray wet SAND, mostly very fine and fine size sand, trace silt, compact, liquifies when disturbed, (SP)		12 SS	2 4 2 3	0.9	8				JHS=1.0
25	890.97										JHS=0.5
26	889.97				13 SS	2 3 5 8	2.0	8			JHS=0.2
27	888.97	Gray wet SAND, mostly very fine size, little silt, liquifies when disturbed, loose, (SM)		14 SS	1 2 2 4	2.0	4				JHS=0
28	887.97										JHS=0
29	886.97	Brownish gray wet SAND, mostly fine to medium size sand, little silt, trace to no gravel, liquifies when disturbed, very loose, (SP-SM)		15 SS	4 8 15 18	1.3	23				JHS=0
30	885.97										JHS=0
31	884.97	Gray wet SAND, mostly very fine to fine size sand, little to some silt, trace to few clay, liquifies when disturbed, compact, (SM) two clayey silt lenses at 31.0', approximately 1/8" thick one clayey silt lenses at 32.5'	16 SS	3 4 8 10	1.4	10				JHS=0	
32	883.97									JHS=0	
33	882.97			17 SS	3 4 5 5	1.5	9				JHS=0
34	881.97		18 SS	8 8 5 5	1.3	11				JHS=0.1	
35	880.97		19 SS	8 8 8 7	1.8	16					
36	879.97										
37	878.97										
38	877.97										
39	876.97										
40	875.97										

# BOREHOLE LOG MPI-4D

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 2/15/94 & 12/29/94 through 1/8/95  
 DRILLING METHOD: BOREHOLE FOR WELL, 10.25" HSA-43.5", 8" CASING  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 915.97 ft. NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 S53 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace

x----x Penetration Resistance ('N' Blows/ft.)  
 o----o Moisture Content ('M' %)

DEPTH (ft. BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA			ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8" RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
41	874.97	continued from page 2		20 SS	4 5 6 8	1.7	11					JHS=0
42	873.97	LAMINATED, Brownish gray wet SANDY SILT, w/mostly very fine - fine sand, occasional silty clay lenses approx. 1/8" thick, sandy silt liquifies when disturbed, loose (ML)		21 SS	2 3 4 4	1.8	7					JHS=0.1
43	872.97											
44	871.97	Brownish gray wet CLAYEY SILT w/little fine sand, firm, CL		22 SS	1 1 2 2	1.4	3					JHS=0
45	870.97											
46	869.97	Brownish gray wet SANDY SILT w/mostly v. fine - fine sand, alternating w/CLAYEY SILT, w/little clay, approx 8-8 layers per inch, sandy silt liquifies when disturbed, very loose SM and CL		ST	- - -	2.0	-					JHS=-
47	868.97	SILTY SAND .1' thick, mostly v. fine sand		23 SS	5 8 8 9	1.8	14					JHS=0.1
48	867.97	SILTY SAND .3' thick, mostly v. fine sand										
49	866.97	Gray extremely moist CLAYEY SILT w/occ. v. fine size sand parting, CL		24 SS	3 5 7 8	1.4	12					JHS=0.1
50	865.97	Gray ext. moist CLAYEY SILT tending toward SANDY SILT, v. thin fine sand partings making clayey silt lenses app. 1/2" thick, CL										
51	864.97	Brownish gray wet alternating layers SANDY SILT & CLAYEY SILT app. 1/18"-1/4" thick, sandy silt layers liquify when disturbed, 2-1" sandy silt layers @ 49.0' & 49.5'		25 ST	- - -	2.0	-					JHS=0.1
52	863.97	Gray ext. moist SILTY CLAY w/an occasional very thin silt parting, stiff, CL		28 SS	2 4 4	1.5	8					JHS=0.2
53	862.97	Gray ext. moist SANDY SILT w/v. fine - fine sand, liquifies when disturbed, SM, w/occ. lenses of ext. moist SILTY CLAY, CL										
54	861.97	Gray wet SAND, mostly med. size, loose when disturbed, SP w/ gray ext. moist SILTY CLAY, soft, CL from 54-54.5'		27 SS	1 4 4 6	2.0	8					JHS=0.1
55	860.97											
56	859.97			28 SS	2 3 4 4	2.0	7					JHS=0.1
57	858.97											
58	857.97											
59	856.97											
60	855.97											

# BOREHOLE LOG MPI-4D

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 2/15/94 & 12/29/94 through 1/8/95  
 DRILLING METHOD: BOREHOLE FOR WELL, 10.25" HSA-43.5', 8" CA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 915.97 ft. NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 S53 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace

x---x Penetration Resistance ('N' Blows/ft.)  
 o---o Moisture Content ('N' %)










DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA			ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8" RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
61	854.97	Becoming stiff at 60.0'		29 SS	2 4 6 8	2.0	10				JHS-0.1
62	853.97										JHS-0.1
63	852.97			30 SS	1 5 4 6	1.8	11				JHS-0.1
64	851.97										JHS-0.1
65	850.97	Gray ext.moist CLAYEY SILT, thin sand partings throughout, med.consist, CL		1 SS	1 6 6 6	2.0	12				JHS-0
66	849.97	Gray wet SILT, trace v. fine sand, liquifies when dist., muck like consistency, loose, ML									JHS-0.1
67	848.97	Gray wet CLAYEY SILT, sand partings of fine & med sand throughout, 1 larger seam 0.5" thick @ 87.7', hard, CL		2 SS	18 22 23 25	1.9	45				JHS-0.1
68	847.97	Gray ext moist SILTY CLAY, CL									JHS-0.1
69	846.97			3 SS	3 5 8 10	2.0	13				JHS-0.1
70	845.97	Gray wet CLAYEY SANDY SILT, some f. sand & silt, trace little clay, CL									JHS-0.1
71	844.97	Gray wet SILT, trace v. fine sand, liquifies when disturbed, firm, ML		4 SS	8 5 5 8	1.4	10				JHS-0.1
72	843.97	Gray wet CLAYEY SILT w/3 silty sand seams 0.1' thick @ 70.3, 70.5 & 70.9, occ v. thin sand partings throughout, med. consist, CL									JHS-0.1
73	842.97			5 SS	6 7 7 9	2.0	14				JHS-0.1
74	841.97	Gray wet med SAND 0.7' thick, trace silt, loose, SP/ Gray wet SILTY CLAY from 72.9-74.2', med consist, CL									JHS-0.1
75	840.97	Gray wet SAND, mostly f. sand, trace silt, liquifies when disturbed, firm, SP		8 SS	7 9 10 10	2.0	19				JHS-0.1
76	839.97	Gray wet SILTY CLAY, stiff, CL									JHS-0.1
77	838.97				4 4 6 9	2.0	10				JHS-0.1
78	837.97	Borehole complete @ 77.5'. Borelog is a compilation of MPI-4D from 1994 data.									
79	838.97	MPI-4D-95 boring approx 10' from MPI-4D-94. Borehole was adv. w/10.25" augers to 43.5'. Permanent 8" casing installed to 43.5'. 8" casing adv. to 78.5'. Monitoring well installed @ 70.5'.									
80	835.97										

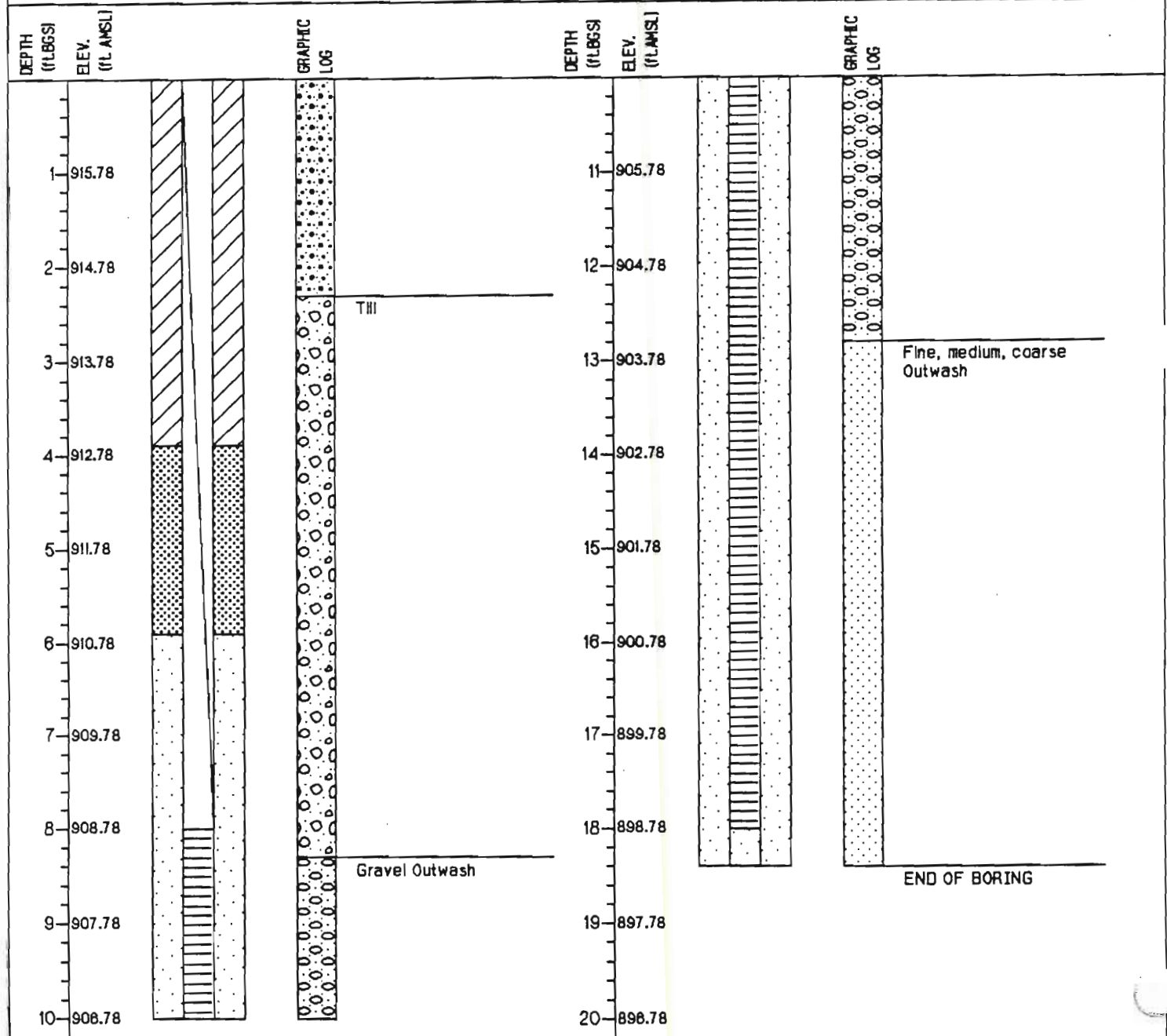
# WELL/BOREHOLE MPI-5S CONSTRUCTION DETAILS

PROJECT: MR. C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/94  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 918.78ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 3.9 feet	 4-INCH DIAMETER CASING	 GRAPHIC LOG refer to BOREHOLE LOG MPI-5D for a complete description
 BENTONITE PELLET SEAL 3.9 to 5.9 feet	 2-INCH DIAMETER RISER 0 to 6.0 feet	
 MORIE #0 SAND PACK 5.9 to 18.4 feet	 6-INCH DIAMETER BOREHOLE	
 2-INCH DIAMETER BLOTTED (0.01" )SCREEN 6.0 to 16.0 feet	 4-INCH DIAMETER BOREHOLE	



NOTES: 1. 0.7 ft. long by 8-in. diameter curb box extends to 0.7 ft. BGS.

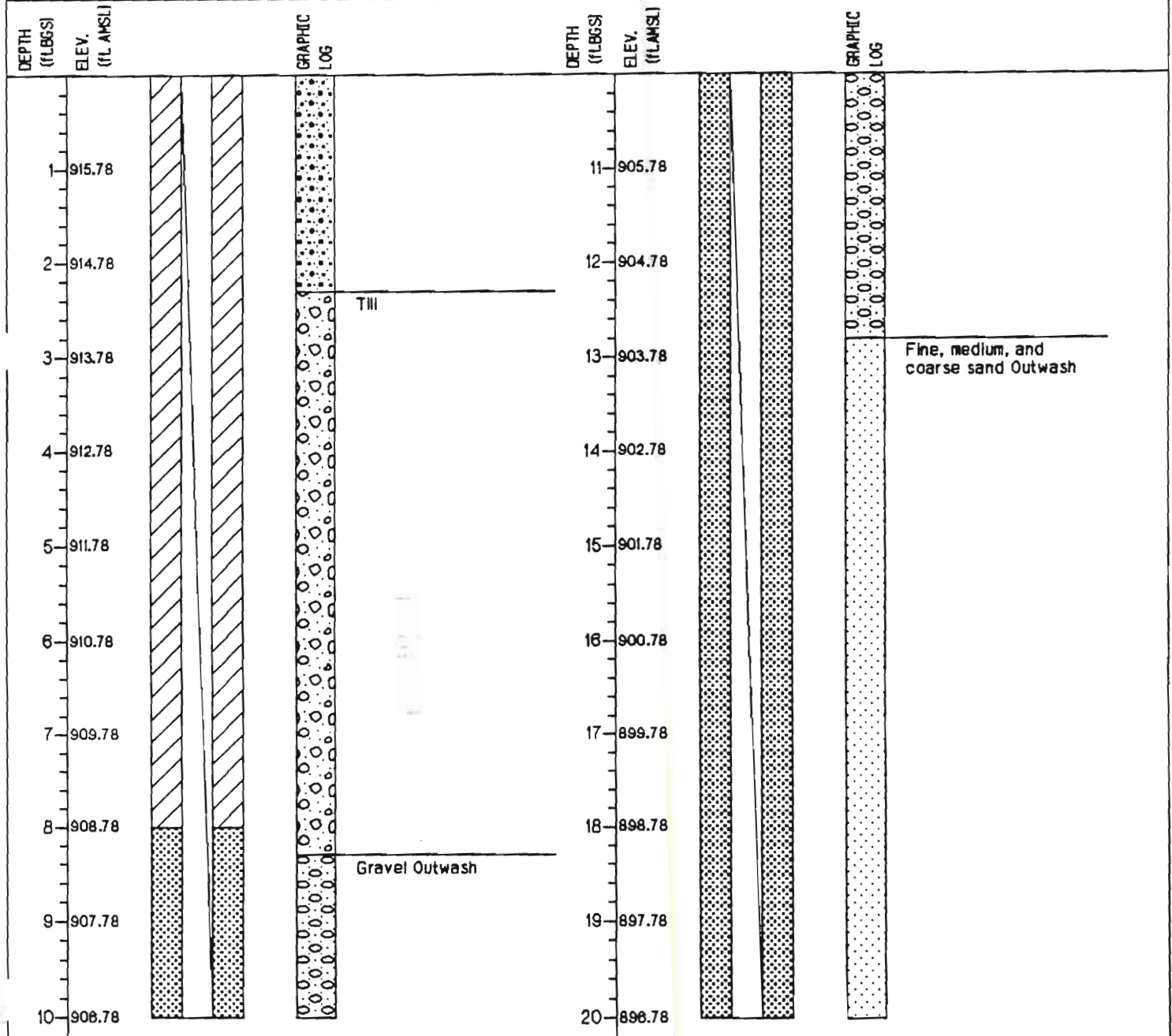
# WELL/BOREHOLE MPI-5I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 918.78ft.

## SYMBOLS AND DEFINITIONS

<p> BENTONITE-CEMENT SEAL 0 to 8.0 feet</p> <p> BENTONITE SLURRY SEAL 8.0 to 30 feet</p> <p> MORIE #00 BAND PACK 30 to 42.5 feet</p> <p> 2-INCH DIAMETER BLOTTED (0.008") SCREEN 32.0 to 42.0 feet</p>	<p> 4-INCH DIAMETER CASING 0 feet</p> <p> 2-INCH DIAMETER RISER 0 to 32.0 Feet</p> <p> 8-INCH DIAMETER BOREHOLE 0 feet</p> <p> 4-INCH DIAMETER BOREHOLE 0 feet</p>	<p> GRAPHIC LOG refer to BOREHOLE LOG MPI-5D for a complete description</p>
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NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.



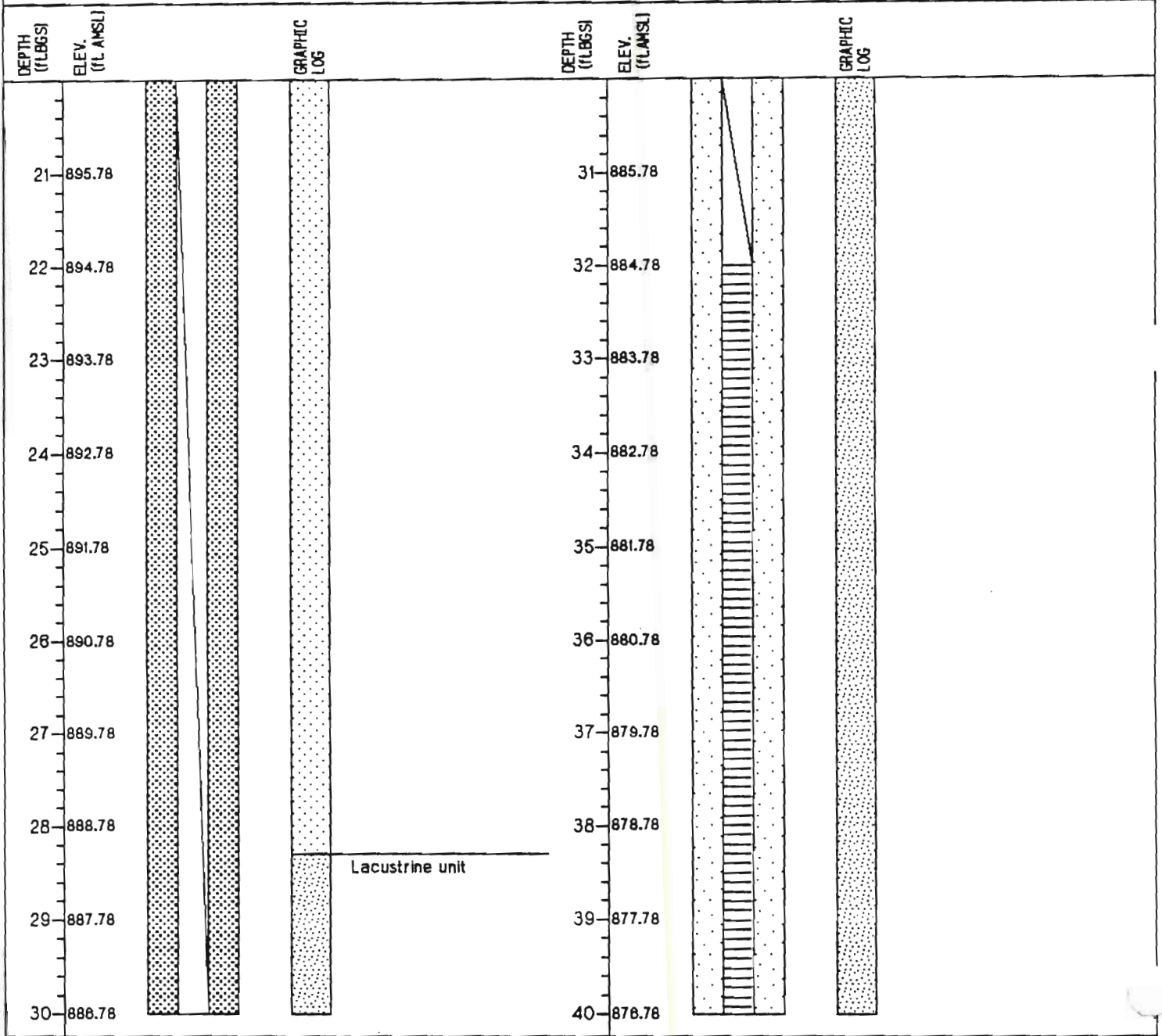
# WELL/BOREHOLE MPI-5I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.78ft.

## SYMBOLS AND DEFINITIONS

<p> BENTONITE-CEMENT SEAL 0 to 8.0 feet</p> <p> BENTONITE SLURRY SEAL 8.0 to 30 feet</p> <p> MORIE #00 SAND PACK 30 to 42.5 feet</p> <p> 2-INCH DIAMETER BLOTTED (0.006") SCREEN 32.0 to 42.0 feet</p>	<p> 4-INCH DIAMETER CASING 0 feet</p> <p> 2-INCH DIAMETER RISER 0 to 32.0 Feet</p> <p> 8-INCH DIAMETER BOREHOLE 0 feet</p> <p> 4-INCH DIAMETER BOREHOLE 0 feet</p>	<p> GRAPHIC LOG refer to BOREHOLE LOG MPI-5D for a complete description</p>
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





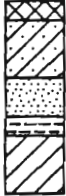
NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

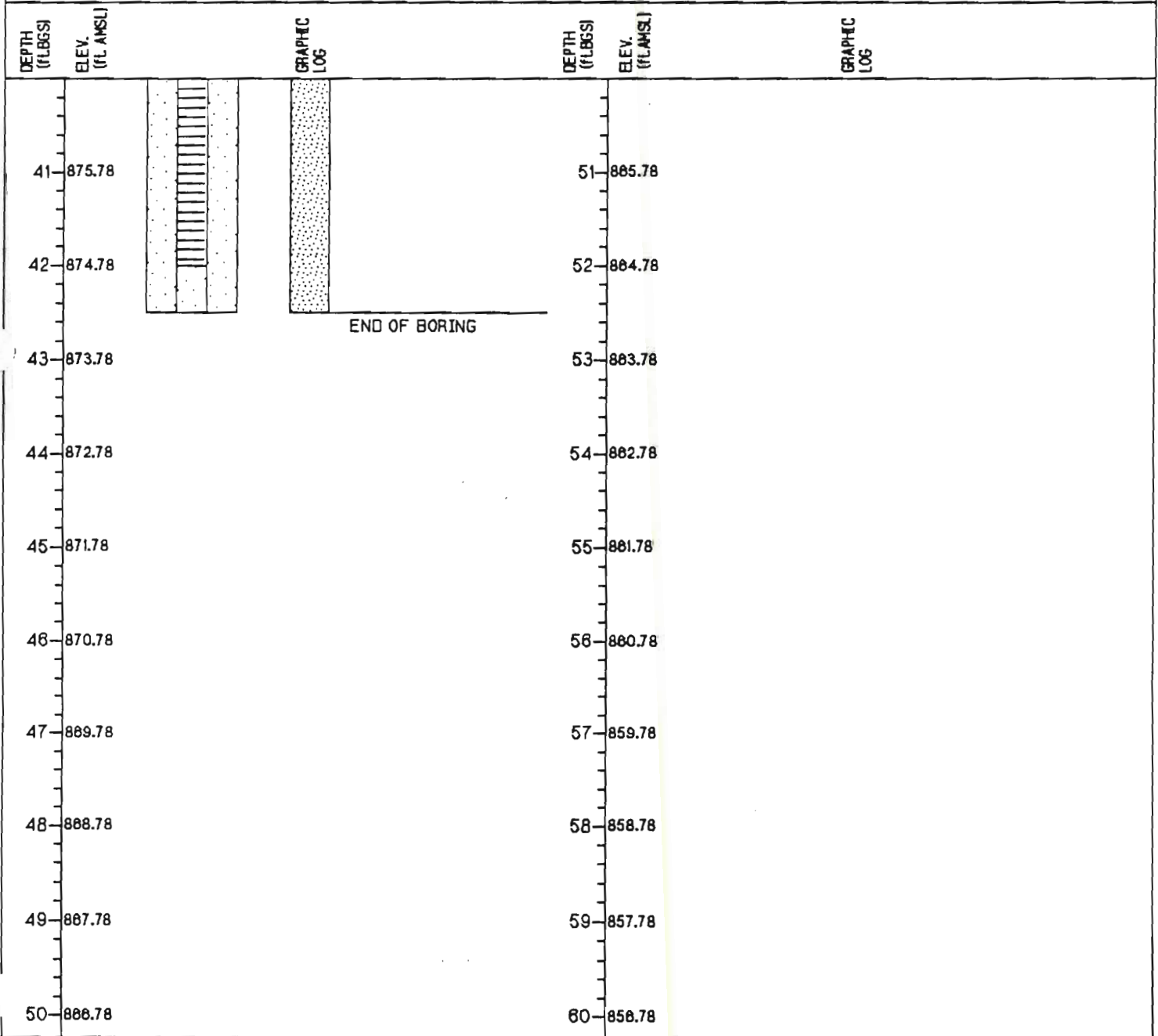
# WELL/BOREHOLE MPI-5I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 6.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.78ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 6.0 feet   BENTONITE SLURRY SEAL 6.0 to 30 feet   MORIE #00 SAND PACK 30 to 42.5 feet   2-INCH DIAMETER BLOTTED (0.006" )SCREEN 32.0 to 42.0 feet   4-INCH DIAMETER CASING 0 feet   2-INCH DIAMETER RISER 0 to 32.0 Feet   8-INCH DIAMETER BOREHOLE 0 feet   4-INCH DIAMETER BOREHOLE 0 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-5D for a complete description
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NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

No MW Installed

# BOREHOLE LOG MPI-5D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 02/23/84 - 2/25/84  
 DRILLING METHOD: 4.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.481t.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HHU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/10 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RGD.
1	815.48	Drilled to 0.5', FILL Grayish Brown slightly moist GRAVEL, some sand, little silt, trace clay, GM		1 SS	18 33 21	1.8	48						JHS=0.3 ppm
2	814.48	Brown slightly moist CLAYEY SILTY GRAVEL, 15-40% gravel, some sand and silt, trace clay, trace foundry sand, hard, GM		2 SS	17 25 20 22	1.7	45						JHS=0.5 ppm
3	813.48												
4	812.48	TILL, Brown slightly moist CLAYEY SILT w/25-40% gravel, little fine-coarse sand, massive w/trace laminations, hard becoming stiff at 4.0', CL		3 SS	8 7 7 7	1.7	14						JHS=0.4 ppm
5	811.48												
6	810.48												
7	808.48	STRATIFIED grayish brown moist GRAVELLY SAND, 40-80% mostly fine gravel, mostly coarse sand, loose, GP		4 SS	8 7 3 2	0.8	10						JHS=0.8 ppm
8	808.48												
9	807.48	becoming compact at 10.0'		5 SS	4 3 8 8	0.8	8						JHS=0.7 ppm
10	806.48												
11	805.48												
12	804.48	Gray wet SAND, mostly medium-coarse sand, little fine, trace subangular and subround gravel, petroleum odor, loose, SP		6 SS	8 12 14 12	0.1	28						JHS=2.2 ppm
13	803.48												
14	802.48	Brown wet SAND, mostly fine, some very fine sand, loose, liquifies when disturbed, SP-SM		7 SS	5 4 5 8	1.3	8						JHS=0.3 ppm
15	801.48												
16	800.48	Brown wet mostly v.fine SAND, trace v.fine sand trace-little silt, liquifies when disturbed, loose, SP-SM		8 SS	4 3 4 4	1.0	7						JHS=0.3 ppm
17	898.48												
18	898.48	Brown wet SAND, trace-no silt, mostly medium sand, little fine, loose, SP		9 SS	3 4 5 5	1.8	8						JHS=0.1 ppm
19	897.48												
20	898.48												

# BOREHOLE LOG MPI-5D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 02/23/84 - 2/25/84  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 816.48ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BS3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RQD.		
21	885.48			11 SS	3 3 4 5	1.0	7						JHS=0.2 ppm
22	884.48	STRATIFIED brown wet SILTY SAND, some silt, mostly very fine sand, compact, liquifies when disturbed, SM  becoming loose at 24.0'		12 SS	5 8 7 8	1.1	15						JHS=0.1 ppm
23	883.48		13 SS	5 4 5 7	1.0	8						JHS=0.2 ppm	
24	882.48		14 SS	7 8 8 7	1.5	12						JHS=0.2 ppm	
25	881.48		15 SS	18 35 34	1.1	88						JHS=0.2 ppm	
26	880.48	Brownish gray wet SAND, trace-little silt, mostly fine sand, trace medium and very fine sand, compact, liquifies when disturbed, SM		16 SS	5 5 8 8	1.1	11						JHS=0.1 ppm
27	889.48		17 SS	5 3 3 3	1.2	8							JHS=0.1 ppm
28	888.48	Brownish gray wet SAND, mostly very fine sand, little fine sand, trace to little silt, very dense, liquifies when disturbed, SM  becoming compact at 30'		18 SS	3 4 5 8	1.1	8						JHS=0.1 ppm
29	887.48		18 SS	5 4 4 3	1.0	8							JHS=0.1 ppm
30	886.48		19 SS	4 3 4 5	1.1	7							JHS=0
31	885.48		20 SS										
32	884.48	becoming loose at 32'											
33	883.48												
34	882.48												
35	881.48												
36	880.48												
37	879.48												
38	878.48												
39	877.48												
40	876.48												

# BOREHOLE LOG MPI-5D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0200-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 02/23/84 - 2/25/84  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.48ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.9in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in gases

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)		
				SAMPLE NO. / RUN NO.	BLOWS / 6"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.				
41	875.48	STRATIFIED brownish gray wet SAND, mostly very fine, little fine sand, trace-little silt, loose, liquifies when disturbed, SM		21 SS	1 3 5	1.3	4						JHS=0.1 ppm		
42	874.48													JHS=0 ppm	
43	873.48			LAMINATED Gray wet CLAYEY SILT, little clay, mostly silt, little fine sand, firm, CL	22 SS	2 3 3 4	1.5	8							JHS=0.1 ppm
44	872.48	Gray wet SILTY SAND, mostly fine sand, some silt, trace-little clay, very stiff, liquifies when disturbed, SM		23 SS	8 8 8	2.0	17						JHS=0.1 ppm		
45	871.48													JHS=0.1 ppm	
46	870.48			Gray wet CLAYEY SILT, with fine sand partings, making Clayey Silt 1/8"-1" thick, mostly silt, little-some clay, firm, CL	24 SS	3 2 3 4	2.0	5							JHS=0 ppm
47	869.48	Brownish gray wet SAND, medium sand, loose, SP		25 SS	3 3 4 5	2.0	7							JHS=0 ppm	
48	868.48														JHS=0 ppm
49	867.48														JHS=0.1 ppm
50	866.48	Gray extremely moist SILTY CLAY, some silt, firm, CL, gray wet SILTY SAND at 54.0' and 55.5'		26 SS	1 3 5 8	2.0	8							JHS=0.1 ppm	
51	865.48														JHS=0.1 ppm
52	864.48														JHS=0.1 ppm
53	863.48	Gray wet SAND, mostly medium, trace fine sand, loose, SP		27 SS	1 3 4 4	2.0	7							JHS=0.1 ppm	
54	862.48														JHS=0.1 ppm
55	861.48				ST		2.0	-							JHS=0.1 ppm
56	860.48	Gray wet CLAYEY SILT, some clay, silt and sand partings .3' thick, stiff, CL		28 SS	8 8 8	2.0	14							JHS=0.1 ppm	
57	859.48														JHS=0.1 ppm
58	858.48			Gray wet SAND, mostly medium, trace fine sand, loose, SP	28 SS	2 3 5 8	2.0	8							JHS=0.1 ppm
59	857.48	Gray extremely moist SILTY CLAY, some silt, stiff, CL												JHS=0.1 ppm	
60	856.48														JHS=0.1 ppm

# BOREHOLE LOG MPI-5D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 02/23/84 - 2/25/84  
 DRILLING METHOD: 4.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 918.48ft.

## SYMBOLS AND DEFINITIONS

88 Split Spoon (2in.ID)  
 883 Split Spoon (3in.ID)  
 8T Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8" 	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RGD.
61	855.48	Gray extremely moist SILTY CLAY, some silt, stiff, CL		30 SS	2	2.0	12						JHS=0.1 ppm
62	854.48				4								JHS=0.1 ppm
63	853.48			8	31 SS	WR	2.0						10
64	852.48	4	Boring complete at 84' with augers at 82', sampled to 84'. Grouted hole with cement bentonite grout at completion.										
65	851.48												
66	850.48												
67	849.48												
68	848.48												
69	847.48												
70	846.48												
71	845.48												
72	844.48												
73	843.48												
74	842.48												
75	841.48												
76	840.48												
77	838.48												
78	838.48												
79	837.48												
80	836.48												

# BOREHOLE LOG MPI-6S

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 03/10/84  
 DRILLING METHOD: 6.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 915.35ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAB Combustible Gas reading in seepers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
1	914.35	FILL olive gray moist SANDY GRAVEL, some sand, 40-80% gravel, mostly angular, little silt, compact, GM		1 SS	12 8 8 4	1.5	14						JHS=0.4 ppm
2	913.35	Black moist SILTY SAND, little silt, trace gravel, little organic matter, compact, SM			4								JHS=0.3 ppm
3	912.35	Dark brown moist CLAYEY SILT, little clay & gravel, trace roots, stiff, CL		2 SS	8 4 4	1.3	10						JHS=0.2 ppm
4	911.35	Brown moist SILTY SAND, some fine sand, trace v. fine, medium & coarse sand, trace gravel, loose, SM			8 21 11 14	0.8	32						JHS=0.2 ppm
6	909.35	TILL, brown moist CLAYEY SILT, little clay & sand, trace gravel & roots, root channels filled w/gray clay, hard, CL			3								JHS=0.2 ppm
7	908.35	STRATIFIED Brown ext moist to wet SILTY GRAVEL, some silt, little sand, mostly angular fine gravel, trace clay, loose, GM		4 SS	5 4 8	0.5	9						JHS=0.3 ppm
9	906.35	becoming wet at 8.0'		5 SS	4 7 8 7	0.7	15						JHS=0.2 ppm
10	905.35	LAMINATED, Brown moist SILTY SAND, some sand & silt, mostly fine sand, compact, SM			3								JHS=0.2 ppm
11	904.35	LAMINATED Brown moist SANDY SILT, w/clayey silt interbeds ~1" thick, sandy silt layers w/little clay, firm, loose, SM		8 SS	4 3 8	1.0	7						JHS=0.3 ppm
13	902.35	STRATIFIED Brownish gray wet medium SAND, little fine sand, little fine angular shale gravel, compact, SP		7 SS	8 7 13 10	1.0	20						JHS=1.6 ppm
15	900.35	Grayish brown wet SAND, mostly coarse, some medium sand, trace silt, little subangular and subrounded gravel, compact, SP		8 SS	3 5 7 11	1.2	12						JHS=13.4 ppm
17	898.35			9 SS	3 8 13 18	1.1	21						JHS=0.2 ppm
18	897.35	Brown ext. moist SANDY SILT, w/fine, medium, & coarse sand, little-some silt, trace fine gravel, compact, SM			1								JHS=0.2 ppm
19	896.35			10 SS	3 8 7	1.1	9						
20	895.35	Gray wet SILTY SAND, little silt, mostly fine sand, little very fine sand, liquefies when disturbed, loose, SM											

# BOREHOLE LOG MPI-6S

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 03/10/94  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 815.35ft.

## SYMBOLS AND DEFINITIONS

88 Split Spoon (2in.ID)  
 883 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHG HNU reading in jar headspace  
 GAG Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA			ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)	
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.			% REC.
21	894.35	Gray wet SILTY SAND, little silt, mostly fine sand, little very fine sand, liquifies when disturbed, loose, SM	[Dotted Pattern]	11 SS	1 2 5 5	1.0	7					JHS-112 ppm
22	893.35											JHS-0.3 ppm
23	892.35				12 SS	1 2 8 7	1.0	8				
24	891.35	----- Sampled to 24', with augers at 23'. Set Well										
25	890.35											
26	889.35											
27	888.35											
28	887.35											
29	886.35											
30	885.35											
31	884.35											
32	883.35											
33	882.35											
34	881.35											
35	880.35											
36	879.35											
37	878.35											
38	877.35											
39	876.35											
40	875.35											












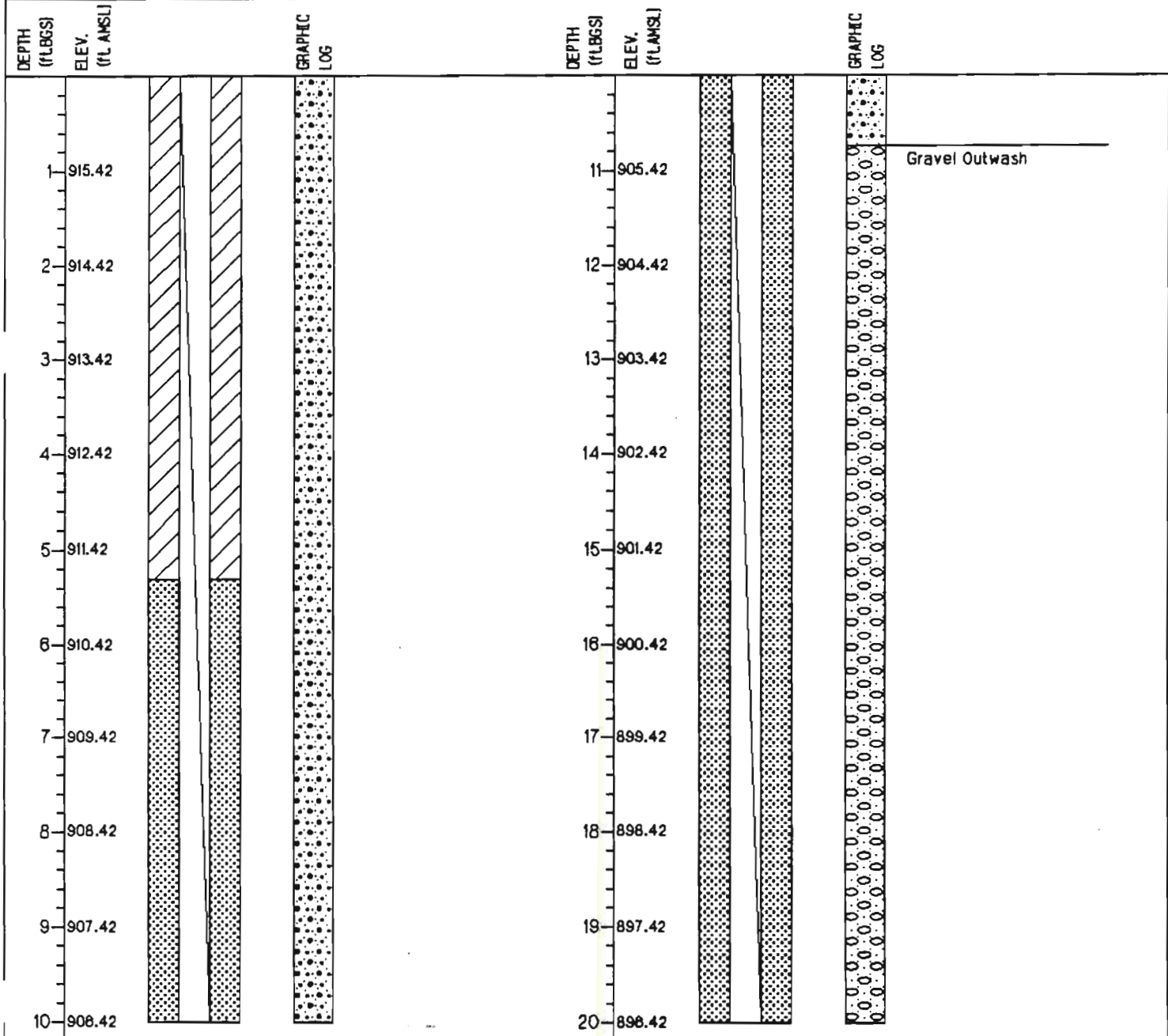
# WELL/BOREHOLE MPI-7I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.42ft.

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 5.3 feet	 4-INCH DIAMETER CASING 0 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-7D for a complete description
 BENTONITE SLURRY SEAL 5.3 to 27.1 feet	 2-INCH DIAMETER RIBER 0 to 28.5 Feet	
 MORIE #00 SAND PACK 27.1 to 40 feet	 6-INCH DIAMETER BOREHOLE 0 feet	
 2-INCH DIAMETER BLOTTED (0.006" )SCREEN 32.0 to 42.0 feet	 4-INCH DIAMETER BOREHOLE 0 feet	







NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.





# WELL/BOREHOLE MPI-7I CONSTRUCTION DETAILS


PROJECT: MR C CLEANERS  
 PROJECT NO.: 0208-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

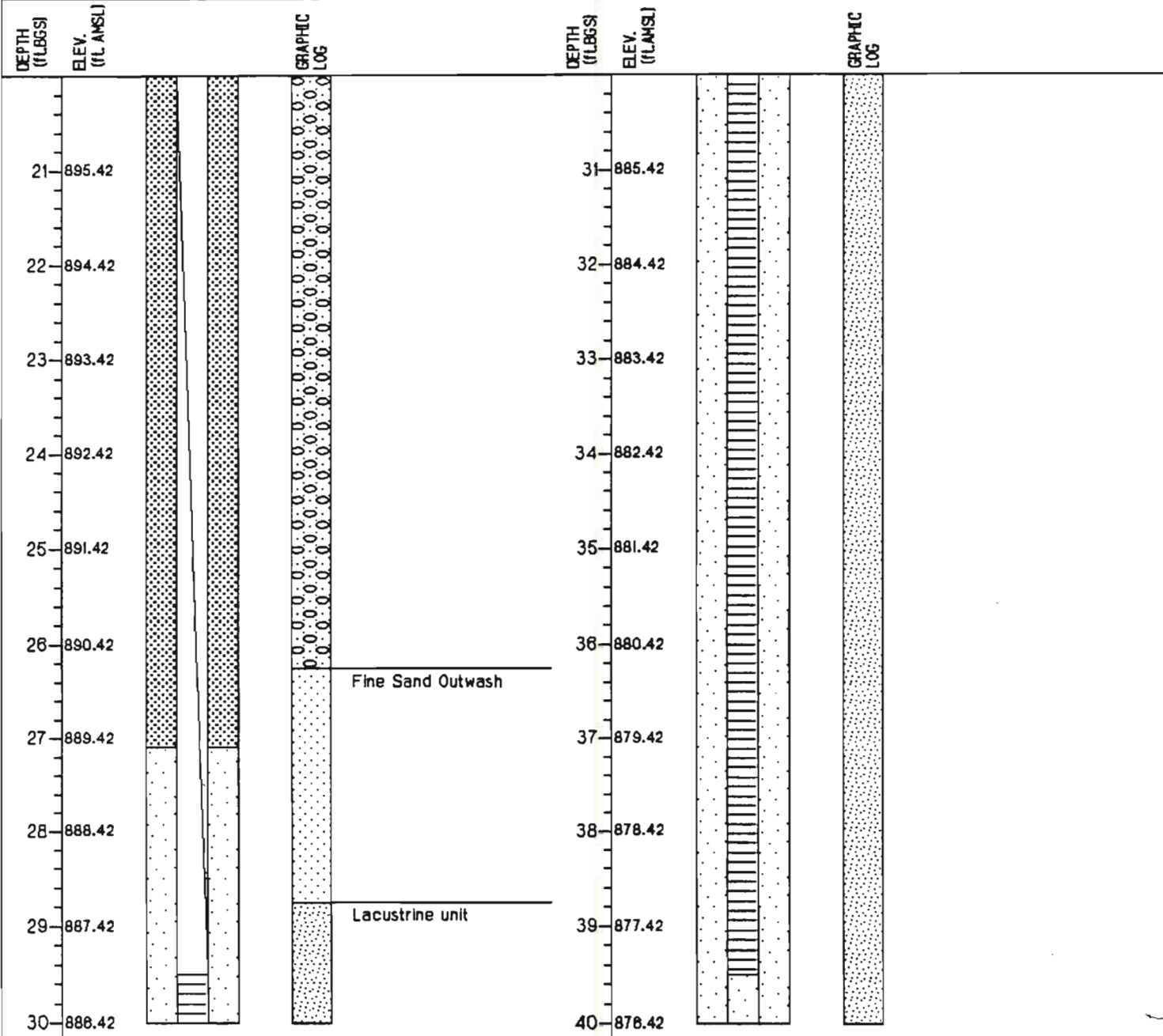
CLIENT: NYSDEC  
 DRILLING DATES: 3/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 916.42ft.

## SYMBOLS AND DEFINITIONS

-  BENTONITE-CEMENT SEAL  
0 to 6.3 feet
-  BENTONITE SLURRY SEAL  
6.3 to 27.1 feet
-  MORIE #00 SAND PACK  
27.1 to 40 feet
-  2-INCH DIAMETER BLOTTED (0.006" )BSCREEN  
32.0 to 42.0 feet

-  4-INCH DIAMETER CASING  
0 feet
-  2-INCH DIAMETER RISER  
0 to 20.5 Feet
-  6-INCH DIAMETER BOREHOLE  
0 feet
-  4-INCH DIAMETER BOREHOLE  
0 feet

 GRAPHIC LOG  
refer to  
BOREHOLE LOG MPI-7D  
for a  
complete  
description



NOTES: 1. 0.7 FT. long by 6-in. diameter curb box extends to 0.5 ft. BGS.

# BOREHOLE LOG MPI-7D

No MW Installed

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0200-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 02/28/94  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 916.87ft.

## SYMBOLS AND DEFINITIONS

86 Split Spoon (2in.ID)  
 883 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rock  
 NR No Recovery  
 - Sampler Refusal

JHS HHU reading in jar headspace  
 GAS Combustible Gas reading in segers

---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% ROD.			
1	915.87	Augered to 1.0' through pavement and hard fill		1 SS	18	1.0	>18						JHS=3.5 ppm	
2	914.87	FILL Brown frozen becoming moist to 2.2', CLAYEY SILT, with little sand and silt, w/10-25% subangular, subrounded and angular gravel, hard, CL becoming very stiff at 2.0'		2 SS	9	1.2	20						JHS=7.0 ppm	
3	913.87			10	10									
4	912.87			10										JHS=4.2 ppm
5	911.87	Brown moist CLAYEY SILTY GRAVEL, some sand, 40-80% gravel, trace brick remnants, loose, GM		3 SS	43	0.2	28						JHS=16.8	
6	910.87			16	12									
7	909.87			2	2	0.2	4							JHS=2.9 ppm
8	908.87			2	2									
9	907.87	Brown wet SILTY GRAVEL, mostly subangular and subrounded gravel, mostly 1/8-1/4" (some 1/2") gravel, little silt, some sand, compact, loose when disturbed, GM		5 SS	3	0.2	8						JHS=18.8 ppm	
10	906.87			5	4									
11	905.87	becoming loose at 14.0'		8 SS	8	1.0	19						JHS=9.5 ppm	
12	904.87			9	10									
13	903.87			12										
14	902.87	becoming compact at 18.0'		7 SS	5	0.8	13						JHS=1.2 ppm	
15	901.87			8	7									
16	900.87	STRATIFIED Brown moist SILTY SAND, some silt, 25-40% gravel, mostly subangular gravel, compact, SM		8 SS	4	0.7	5						JHS=0.8 ppm	
17	899.87			3	2									
18	898.87	Brown wet SILTY GRAVEL, with little sand, little silt, compact, loose when disturbed, GM		9 SS	4	0.8	14						JHS=3.4 ppm	
19	897.87			8	8									
20	896.87			10 SS	8	0.3	10							

# BOREHOLE LOG MPI-7D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 02/28/84  
 DRILLING METHOD: 4.25-inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 916.87ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

— Penetration Resistance ('N' Blows/1.0 ft.)  
 o—o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)		
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% ROD.	
21	885.87	STRATIFIED brown wet SILTY GRAVEL, with some medium and coarse sand, 40-80% gravel, little silt, compact, loose when disturbed, GM  occasional sandstone cobble		11 SS	4 8 8 7	0.8	14					JHS=1.8 ppm		
22	884.87											JHS=2.0 ppm		
23	883.87					12 SS	12 8 8	0.5	21					JHS=0.9 ppm
24	882.87													JHS=0.2 ppm
25	881.87					13 SS	8 8 8	0.8	17					
26	880.87													
27	888.87	Brown wet SAND, mostly fine, little medium sand, trace-no silt, compact, loose when disturbed, SP		14 SS	7 5 5 5	1.1	10					JHS=0.1 ppm		
28	888.87													
29	887.87	Gray wet SAND, mostly fine, little medium sand, compact, loose when disturbed, SP		15 SS	8 5 8 8	1.3	13					JHS=0.2 ppm		
30	888.87	Gray wet SILTY SAND, with little silt, mostly fine sand, compact, liquifies when disturbed, SM												
31	885.87				16 SS	7 8 7 7	0.3	18					JHS=0.1 ppm	
32	884.87	becoming loose at 32.0'												
33	883.87				17 SS	3 3 3 4	2.0	8					JHS=0.1 ppm	
34	882.87													
35	881.87				18 SS	4 3 3 3	2.0	8					JHS=0.3 ppm	
36	880.87													
37	879.87				18 SS	3 3 4 5	2.0	7					JHS=0.1 ppm	
38	878.87	Gray wet SAND, mostly fine, trace very fine sand, loose, liquifies when disturbed, SP												
39	877.87	Gray wet SILTY SAND, some silt, mostly very fine sand, loose, liquifies when disturbed, SM		20 SS	3 2 3 5	2.0	5							
40	878.87													

# BOREHOLE LOG MPI-7D

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 02/28/84  
 DRILLING METHOD: 4.25-Inch ID HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.87ft.

## SYMBOLS AND DEFINITIONS

88 SpH Spoon (2in.ID)  
 883 SpH Spoon (3in.ID)  
 8T Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHB HNU reading in jar headspace  
 GAB Combustible Gas reading in augers

--- Penetration Resistance ('N' Blows/1.0 ft.)  
 o--o Moisture Content ('M' %)

DEPTH (ft. LGS)	ELEVATION (ft. ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / Ø"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
41	875.87	LAMINATED Gray wet CLAYEY SILT, with little-some clay, CL, alternating with SILTY SAND, with little-some silt, SM, each layer-1/4" thick, firm		21	3	2.0	5						JHS=0.2 ppm
42	874.87				2								
43	873.87				3								
44	872.87				4								
43	873.87	Gray moist CLAYEY SILT, with little-some clay, firm, CL		22	1	2.0	5						JHS=0.1 ppm
44	872.87	Gray wet SILTY SAND, some silt, mostly very fine sand, loose, lumps when disturbed, SM			2								
45	871.87	Gray wet CLAYEY SILT, with little-some clay, CL alternating with SILTY SAND, with little-some silt, clay layer-1/3" thick interbedded, SM sand layer 1/8-1/16" thick, firm			3								
46	870.87	thicker Clayey Silt lenses ~1" thick one thicker Sand lense ~1" thick		23	1	2.0	5						JHS=0
47	869.87	Gray wet SAND, mostly medium sand, trace fine, loose, lumps when disturbed, SP-SM			2								
48	868.87	Gray extremely moist SANDY SILT, with thin layers of clayey sandy silt ~1/8" thick, loose, SM			3								
49	867.87	Gray extremely moist SILTY CLAY, with some silt, occasional very thin sand lenses, stiff, CL		24	4	2.0	8						JHS=0.1 ppm
50	866.87	Gray wet SAND, mostly fine, trace medium, little very fine sand, compact, SP			4								
51	865.87	Gray alternating layers of extremely moist SILTY SAND and SANDY SILT, with thin clay layers ~1/8" thick, stiff, SM and ML			5								
52	864.87	Gray extremely moist SILTY CLAY, with some silt, stiff, CL		25	3	2.0	12						JHS=0.1 ppm
53	863.87	Gray wet SAND, mostly fine, trace medium, little very fine sand, compact, SP			4								
54	862.87	Gray alternating layers of extremely moist SILTY SAND and SANDY SILT, with thin clay layers ~1/8" thick, stiff, SM and ML			5								
55	861.87	Gray extremely moist SILTY CLAY, with some silt, stiff, CL		26	4	2.0	11						JHS=0.1 ppm
56	860.87	Gray extremely moist SANDY SILT, with thin layers of clayey sandy silt ~1/8" thick, loose, SM			5								
57	859.87	Gray extremely moist SILTY CLAY, with some silt, stiff, CL			6								
58	858.87	Gray extremely moist SILTY CLAY, with some silt, stiff, CL		27	3	2.0	10						JHS=0.1 ppm
59	857.87	Gray extremely moist SANDY SILT, with thin layers of clayey sandy silt ~1/8" thick, loose, SM			4								
60	856.87	Gray extremely moist SILTY CLAY, with some silt, stiff, CL			5								
59	857.87	Boring complete at 80' with augers at 58'. Grouted hole with cement/bentonite grout at completion.		ST		2.0							

# BOREHOLE LOG MPI-8S

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 03/21/84  
 DRILLING METHOD: 8.25-Inch ID HSA  
 LOGGED/CHECKED BY: JPH/RHO  
 SURFACE ELEVATION: 915.01ft.

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 SB Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHB HNU reading in jar headspace  
 GAB Combustible Gas reading in segars

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 6"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RQD.		
1	914.01	Augered 1' through asphalt, pavement, and concrete		1 SS	4	0.7							JHS=0.6 ppm
2	913.01	FILL dark brown moist CLAY and SILT, little coarse sand and fine gravel, CL			4								JHS=L3 ppm
3	912.01	Brownish yellow moist SAND, fine-medium sand, trace-little fine gravel, compact, SP		2 SS	3 3 10	0.8	13						JHS=0.7 ppm
4	911.01	Moderate-dark brown moist GRAVELLY SILT, little-some subround gravel (shale) to 3/4" diameter, trace-little sand, trace clay, few Brick fragments, compact, GM		3 SS	5 8 10	0.5	22						JHS=L1 ppm
5	910.01	TILL, SILTY SANDY GRAVEL, to 3/4" diameter, little- some brown-orange silt and fine-medium sand. compact, GM		4 SS	12 16	0.8	18						JHS=5.8 ppm
6	909.01	Dark gray moist SANDY GRAVEL, with trace silt and some medium to coarse sand, fine gravel to 3/4" dia., loose when disturbed, compact, GW-GM		5 SS	3 4 4 4	1.2	8						JHS=2.2 ppm
7	908.01	SILT light brown, bedded laminae, trace sand, moist, stiff		6 SS	4 4 4	1.1	8						JHS=0.4 ppm
8	907.01	GRAVEL, to 1/4" diameter, little fine-medium sand, trace-little silt, loose, GM		7 SS	3 3 5 5	1.4	8						JHS=3.4 ppm
9	906.01	Wet SILTY SAND, w/little silt, heavily stained iron/siderite contact with laminae		8 SS	2 4 5 8	1.1	8						JHS=3.2 ppm
10	905.01	very fine-medium sand, liquifies when disturbed, loose, SM		9 SS	2 3 3 4	1.0	8						JHS=8.2 ppm
11	904.01	Dark gray wet SAND, mostly medium, fine-course sand, well drained, loose, w/very fine grained laminae as bedding fabric, loose, SP		10 SS	1 2 5 5	1.1	7						
12	903.01	Dark gray wet SAND, very fine-fine sand, trace silt as thin laminated bedding fabric, loose, SM											
13	902.01	Boring complete at 20'. Set well											

# BOREHOLE LOG MPI-9S

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 03/23/84  
 DRILLING METHOD: 8.25-inch ID HSA  
 LOGGED/CHECKED BY: JPH/RHO  
 SURFACE ELEVATION: 815.24ft.

## SYMBOLS AND DEFINITIONS

88 Split Spoon (2in.ID)  
 883 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x—x Penetration Resistance ('N' Blows/1.0 ft.)  
 o—o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
1	814.24	Advanced augers through asphalt and concrete to 1' prior to sampling		1 SS	3	1.0							JHS=0.2 ppm
2	813.24	Dark brown moist SILTY SAND, w/fine, medium, coarse sand, little silt, little-some shale clasts as gravel, trace clay, SM			4								JHS=0.7 ppm
3	812.24	Light gray-brown moist SANDY SILT, fine, medium, and coarse sand, some silt, little-some subangular gravel to 1/2" diameter as Shale clasts, SM		2 SS	2 3 4	0.5	5						JHS=0.9 ppm
4	811.24				3								JHS=0.4 ppm
5	810.24	Brown moist SILTY SAND, little silt, medium-course sand, little subround gravel to 1/2" diameter, loose w/cobbles > 3", SP-SM		3 SS	8 8 8	0.7	18						JHS=0.4 ppm
6	808.24				12								JHS=1.2 ppm
7	808.24	GRAVEL and SAND with Cobbles > 3"		4 SS	8 7 8	0.2	18						JHS=1.0 ppm
8	807.24				3								JHS=0.8 ppm
9	806.24	Brown wet SANDY GRAVEL, subround fine gravel w/ shale clasts to 3/4", medium-course sand, trace silt, loose when disturbed, compact, GP-GM		5 SS	5 8 5	1.1	11						JHS=1.8 ppm
10	805.24				2								JHS=1.8 ppm
11	804.24	Wet GRAVEL and SAND, loose when disturbed		8 SS	8 7 7	1.2	13						JHS=1.8 ppm
12	803.24				18								JHS=1.8 ppm
13	802.24	Light orange to brown wet SANDY SILT, little-some gravel, trace clay, grading to course gray sand at 13.1'		7 SS	14 8 4	1.3	23						JHS=1.8 ppm
14	801.24				4								JHS=1.8 ppm
15	800.24	Grayish brown wet SAND, mostly medium, trace coarse, some bedding fabric as sorted laminae, loose, SP		8 SS	3 4 5	1.8	7						JHS=1.8 ppm
16	888.24				1								JHS=1.8 ppm
17	888.24	Gray wet SAND, mostly medium, trace coarse, loose, SP		8 SS	3 8 7	1.3	9						JHS=1.8 ppm
18	887.24	Gray wet SAND, mostly medium, trace coarse, fine subrounded gravel to 1/2" diameter, loose, SP											JHS=1.8 ppm
19	888.24	Grayish brown wet SAND, mostly medium, trace coarse, subrounded gravel to 1/2" dia. unsorted, loose, SP		10 SS	2 2 5	1.1	4						JHS=1.8 ppm
20	885.24	Boring complete at 20'. Set well											

# BOREHOLE LOG MPI-10B

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/22/84 - 12/23/84  
 DRILLING METHOD: 8-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 918.07ft.FT. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x—x Penetration Resistance ('N' Blows/1.0 ft.)  
 o—o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)		
				SAMPLE NO. / RUN NO.	BLOWS / 8" B'	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.				
1	915.07	FILL, gray and brown moist SAND AND GRAVEL, loose when disturbed, firm, GP		1 SS	7 8 4 12	0.8	13						JHS=0.2 ppm		
2	914.07	Brown CLAYEY SILTY GRAVEL, firm becoming loose @ 4', GC-GM		2 SS	15 12 8 8	1.2	21							JHS=0.2 ppm	
3	913.07														JHS=0.9 ppm
4	912.07	Brown moist GRAVELLY CLAYEY SILT, some fine - coarse sand, little silt, little clay, little gravel, loose, CL		3 SS	2 3 3 5	0.5	8							JHS=0 ppm	
5	911.07														JHS=0.3 ppm
6	910.07														JHS=0.4 ppm
7	908.07	Brown moist SANDY CLAYEY SILT, little fine - medium sand, little sand, trace clay, little silt, little gravel, loose when disturbed, medium consistency, SM		4 SS	2 3 4 4	1.1	7							JHS=0.8 ppm	
8	908.07														JHS=0.8 ppm
9	907.07	STRATIFIED, Brown wet SAND, mostly fine and medium, trace coarse trace silt, loose when disturbed, loose, stratified, SP Occasional gravel		5 SS	2 3 4 4	1.0	7							JHS=0.8 ppm	
10	906.07														JHS=8.0 ppm
11	905.07													JHS=7.2 ppm	
12	904.07	Brown wet SAND, mostly fine size sand, trace medium and coarse sand, liquifies when disturbed, loose, (running sands), SP	7 SS	3 3 4 8	1.1	7							JHS=8.2 ppm		
13	903.07														
14	902.07	Brown wet SILTY SAND, mostly very fine with occasional finer stratifications, liquifies when disturbed, firm, SP-SM	8 SS	2 2 3 3	1.0	5							JHS=7.2 ppm		
15	901.07														
16	900.07														
17	898.07	Brown wet SILTY SAND, mostly very fine with occasional finer stratifications, liquifies when disturbed, firm, SP-SM	9 SS	4 4 8 8	1.3	12							JHS=8.2 ppm		
18	898.07														
19	897.07														
20	896.07		10 SS	2 3 4 4	1.0	7									



# BOREHOLE LOG MPI-10B

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/22/94 - 12/23/94  
 DRILLING METHOD: 6-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 818.07ft. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

88 Split Spoon (2in.ID)  
 883 Split Spoon (3in.ID)  
 8T Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAB Combustible Gas reading in segers

x---x Penetration Resistance ('N' Blows/10 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.			
21	885.07	Brown wet SAND, mostly fine size sand, little medium sand, trace silt, liquifies when disturbed, loose, SP		11 SS	1 2 3 7	1.1	5						JHS=11.0 ppm	
22	884.07				12 SS	8 8 7 7	1.0	13						JHS=12.8 ppm
23	883.07			more numerous fine sand stratifications, firm		13 SS	4 5 8 8	0.8	11					
24	882.07	Brown wet SAND, fine, medium & coarse sand, little gravel, (increasing amount of silt in bottom of spoon), firm, SP		14 SS	2 2 3 10	1.0	5						JHS=4.8'	
25	881.07				15 SS	2 2 3 10	1.5	5						JHS=3.4 ppm
26	880.07	Brown wet SAND, mostly fine, little medium, trace silt, loose, SP		16 SS	2 3 8 10	0.8	8						JHS=2.3 ppm	
27	888.07				18 SS	2 3 8 10	0.8	8						
28	888.07	LAMINATED, Fine sand lenses at 30.8 and 30.7 (.5" -.75" in length)												
29	887.07													
30	888.07	Brown wet SANDY SILT, liquifies when disturbed, loose												
31	885.07													
32	884.07	Boring complete at 32'. Installed well.												
33	883.07													
34	882.07													
35	881.07													
36	880.07													
37	879.07													
38	878.07													
39	877.07													
40	876.07													

# BOREHOLE LOG MPI-11B

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0200-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/27/84  
 DRILLING METHOD: 8-1/4" HSA  
 LOGGED/CHECKED BY: RHO  
 SURFACE ELEVATION: 813.58ft.FT. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)  
 BB3 Split Spoon (3in.ID)  
 BT Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in seers

--- Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft LGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
1	812.58	FILL, SILT, SAND AND GRAVEL, slag fill, moist,		1 SS	5	1.0	4						JHS= ppm
2	811.58	TOPSOIL, Dark brown moist SILTY FINE SAND, some medium sand, trace gravel, trace organic vegetation, loose, SM		2	2								
3	810.58	TILL, Brown moist fine SAND, little silt, little medium sand, trace rounded gravel, trace veg. fragments, firm, SM		2 SS	3	1.5	12						JHS= ppm
4	808.58	Brown moist SILT AND SAND, some gravel, gravel is fragments of black shale, greengray siltstone, loose, SM		5	7								
5	808.58	Brown wet SILT AND fine SAND, some gravel, gravel fragments of black shale, greengray siltstone, loose, SM		3 SS	3	1.5	8						JHS= ppm
6	807.58	Brown wet SILT AND fine SAND, some gravel, gravel fragments of black shale, greengray siltstone, weathered, loose, SM		3	3								
7	806.58	STRATIFIED Brown wet SAND, mostly fine sand, ilquifies when disturbed, loose, SP		4 SS	2	0.7	4						JHS= ppm
8	805.58	Brown wet GRAVEL, mostly rounded gravel in a fine sand matrix, loose, GP		2	2								
9	804.58	Brown wet GRAVEL, mostly med size gravel, rounded, trace shale, some silt and fine sand, firm, GM		5 SS	WH	0.8	4						JHS= ppm
10	803.58	Brown wet SAND & GRAVEL, fine to medium gravel, medium sand, trace fine sand, gravel-rounded, fine gravel in shale fragments, medium gravel is sandstone/siltstone, very compact, SW or GW		8 SS	8	0.5	15						
11	802.58	Brown wet SAND & GRAVEL, fine-medium gravel, medium-coarse sand, trace silt, gravel-well rounded & well washed, loose, SW or GW		8 SS	7	1.8	15						JHS= ppm
12	801.58	Brown wet SAND, medium-coarse sand, trace fine sand, little fine gravel, trace medium gravel, trace silt, gravel-well rounded & well washed, firm, SW		8 SS	8	1.2	22						
13	800.58	Brown wet GRAVELLY SAND, medium-coarse sand, some fine-medium gravel, trace fine sand, thin stratified medium sand layers, firm, SW		7 SS	48	1.0	54						JHS= ppm
14	888.58			8 SS	41								
15	888.58			8 SS	13								JHS= ppm
16	887.58			8 SS	8								
17	888.58			8 SS	7								JHS= ppm
18	885.58			8 SS	7								
19	884.58			10 SS	17								JHS= ppm
20	883.58			10 SS	12								

# BOREHOLE LOG MPI-11B

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0208-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/27/84  
 DRILLING METHOD: 8-1/4" HSA  
 LOGGED/CHECKED BY: RHO  
 SURFACE ELEVATION: 913.58ft.FT. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 BS Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in segers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	X REC.	X RGD.		
21	892.58	Brown wet SANDY SILT, some fine sand, firm, ML	[Dotted pattern]	11 SS	4 8 5 8	0.8	11						JHS= ppm
22	891.58	Black SHALE FRAGMENTS											
23	890.58	Brown wet SAND, mostly fine sand, trace to little silt, liquifies when disturbed, loose, SP-SM	[Dotted pattern]	12 SS	2 4 4 7	1.8	8						JHS= ppm
24	889.58	Grayish brown wet SAND, mostly fine, some medium, trace silt, loose, SP											
25	888.58		[Dotted pattern]	13 SS	WR 1 2 3	1.0	3						JHS= ppm
26	887.58												
27	886.58	LAMINATED, Gray wet SILT and SAND, mostly very fine, liquifies when disturbed, loose, SM	[Dotted pattern]	14 SS	3 3 4 7	1.5	7						JHS= ppm
28	885.58	Gray wet SAND, mostly medium, little fine, loose, SP											
29	884.58	Gray wet SAND, mostly fine sand, little silt, loose, SM	[Dotted pattern]	15 SS	WR 3 4 3	1.0	7						JHS= ppm
30	883.58	Gray wet SILT and very fine SAND, loose, ML											
31	882.58	Gray wet fine SAND, little silt, loose, SM											
32	881.58	Boring complete at 30'. Installed well.											
33	880.58												
34	879.58												
35	878.58												
36	877.58												
37	876.58												
38	875.58												
39	874.58												
40	873.58												

# BOREHOLE LOG MPI-12B

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/28/84  
 DRILLING METHOD: 8-1/4" HSA  
 LOGGED/CHECKED BY: RHO  
 SURFACE ELEVATION: 811.44ft.FT. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

88 Split Spoon (2in.ID)  
 883 Split Spoon (3in.ID)  
 8T Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHB HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x-x Penetration Resistance ("N" Blows/10 ft.)  
 o-o Moisture Content ("N" %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.			
1	810.44	FILL, Asphalt, subbase, gravel, sand to cobbles in cuttings firm		1 SS	5 8 8	0.7	12						JHS=0 ppm	
2	808.44	Silty fine sand, slightly moist		2 SS	4 5 8 8	0.7	11						JHS=0 ppm	
3	808.44													
4	807.44	TILL, brown moist CLAYEY SILT, some gravel (fine to cobbles), moderate-extremely weathered till, medium consistency, CL		3 SS	5 8 8 10	0.7	12						JHS=0 ppm	
5	806.44													
6	805.44	Brown wet GRAVELLY CLAYEY SILT, black shale and greenish gray siltstone, clayey silt mottled reddish brown, medium consistency, CL		4 SS	5 3 3 2	0.5	8						JHS=0.8 ppm	
7	804.44													
8	803.44	STRATIFIED, brown wet SANDY GRAVEL, little fine to medium sand, gravel-well rounded, loose, SW		5 SS	1 2 3 8	0.2	5						JHS=5.5 ppm	
9	802.44													
10	801.44	Brown wet SAND & GRAVEL, little silt, firm, SM or GM		7 SS	1 3 5 3	0.3	8						JHS=4.5 ppm	
11	800.44													
12	898.44	Brown wet SANDY GRAVEL, little medium to coarse sand, loose, GW		8 SS	5 8 5 5	1.0	11						JHS=7.8 ppm	
13	898.44													
14	897.44	Brown wet SILTY SAND, mostly medium to fine sand, some medium-coarse gravel, gravel loose w/occasional layers of firm fine matrix, firm, SM		9 SS	2 3 3 4	0.7	8						JHS=4.5 ppm	
15	898.44													
16	895.44	Brown wet SANDY GRAVEL, some fine to medium sand, cobbles to fine gravel, trace silt, firm, GW		10 SS	7 5 7 7	1.0	12						JHS=1.0 ppm	
17	894.44													
18	893.44				5 8 13 8	1.0	18							
19	892.44													
20	891.44													

# BOREHOLE LOG MPI-12B

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0200-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/28/84  
 DRILLING METHOD: 8-1/4" HSA  
 LOGGED/CHECKED BY: RHO  
 SURFACE ELEVATION: 811.44ft.FT. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 BS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.6in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in segers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft.BGS)	ELEVATION (ft ANSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 0'	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
21	880.44	no recovery		11 SS	2 5 7 11	1.0	12						JHS=0.3 ppm
22	888.44			12 SS	17 27 10 11	0.8	37						JHS=0.6 ppm
23	888.44				13 SS	3 8 10 11	NR	18					
24	887.44			14 SS		12 8 8 10	0.5	12					
25	888.44				15 SS	3 3 7 8	0.5	10					
26	885.44	16 SS	4 7 8 7	0.5		18						JHS=0.2 ppm	
27	884.44		17 SS	7 8 8 7	1.0	18						JHS=0 ppm	
28	883.44	18 SS		3 8 4 3	0.3	10						JHS=0.1 ppm	
29	882.44		19 SS	3 3 4 5	0.7	7							
30	881.44												
31	880.44												
32	879.44												
33	878.44												
34	877.44												
35	876.44												
36	875.44												
37	874.44												
38	873.44												
39	872.44												
40	871.44												

# BOREHOLE LOG MPI-13B

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 1/10/95  
 DRILLING METHOD: 6-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 913.88ft.FT. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.		
1	912.88	FILL, Asphalt to 0.2' and concrete to 1.0, fill to 2.0 feet		-	-	-	-						
2	911.88	Brown moist SANDY SILT, little fine to coarse sand, trace fine gravel, blocky, loose, reworked soil		1 SS	3 3	1.3	8						JHS=0 ppm
3	910.88	TILL, yellowish brown moist CLAYEY SANDY SILT, little f-c sand, trace clay & gravel, trace roots, blocky, loose, ML		2 SS	5 7	1.3	12						JHS=0.3 ppm
4	909.88	Brown w/gray mottling moist CLAYEY SILT, w/15-25% mostly shale gravel, massive, medium consistence, CL		3 SS	5 5	0.9	10						JHS=0.4 ppm
5	908.88	Brown wet SILTY GRAVELLY SAND, w/mostly coarse sand, little fine to medium, little silt, little gravel, exhibits some cohesion, medium consistency, SM		4 SS	1 1	0.8	2						JHS=0.2 ppm
6	907.88	STRATIFIED, Brown wet SAND, mostly coarse sand, little med. sand, trace-little silt & grav, loose when disturbed, loose, SP-SM		5 SS	1 2	0.7	3						JHS=0.1 ppm
7	906.88	LAMINATED, brown wet SAND, mostly very fine and fine sand, trace-little silt, liquifies when disturbed, loose, SP-SM		6 SS	4 3	1.4	7						JHS=0.1 ppm
8	905.88	Gray wet v fine & fine SAND, little silt, liq. when dist, loose, SP-SM		7 SS	1 2	0.9	3						JHS=0.1 ppm
9	904.88	Gray wet CLAYEY SILT, w/some v. fine & fine sand, CL		8 SS	10 10 10	0.2	20						JHS=0.1 ppm
10	903.88	Gray wet SANDY SILT, some v. fine & fine sand, 2 clay seams @ 14.3' 1/8" thick, liq. when dist, loose, ML		9 SS	2 4	1.2	12						JHS=0.1 ppm
11	902.88	STRAT. Brown wet GRAV. coarse SAND, trace silt, some grav, loose when dist, firm, SP											JHS=0.1 ppm
12	901.88	Gray wet 1-c SAND, med sand layer 0.1' thick @ 18.0', 1. sand layer 18.1-18.2', m-c layer 18.2-18.5, loose when dist, firm, SW											JHS=0.1 ppm
13	900.88	Brown wet GRAV SAND, 1-c sand, some gray trace silt, loose when dist, loose, SW											JHS=0.1 ppm
14	899.88												
15	898.88												
16	897.88												
17	896.88												
18	895.88												
19	894.88												
20	893.88												

# BOREHOLE LOG MPI-13B

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 1/10/95  
 DRILLING METHOD: 6-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 913.88ft.FT. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.6in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft.BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / Ø"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% ROD.		
21	892.88		(0.9)	10 SS	2 5 7 9	0.9	12						JHS=0.8 ppm
22	891.88	Brown wet SANDY GRAVEL, some medium - coarse sand, fine gravel, trace silt, loose when disturbed, firm, GW	(1.4)	11 SS	7 5 9 9	1.4	14						JHS=0.4 ppm
23	890.88												
24	889.88	Brown wet medium-coarse SAND, trace to little gravel, loose when disturbed, firm, SP	(1.0)	12 SS	5 9 7 9	1.0	18						JHS=0.3 ppm
25	888.88												
26	887.88	Brown wet SAND, medium sand, trace gravel, loose when disturbed, firm, SP	(1.4)	13 SS	8 12 10 12	1.4	22						JHS=0.3 ppm
27	888.88												
28	885.88	LAMINATED, gray wet SAND, mostly fine, liquifies when disturbed, loose, SP	(1.3)	14 SS	WR 3 4	1.3	<4						JHS=0 ppm
29	884.88												
30	883.88		(1.4)	15 SS	5 8 5 8	1.4	11						JHS=0 ppm
31	882.88												
32	881.88		(0.3)	16 SS	WR WR 1 2	0.3	<2						JHS=0 ppm
33	880.88												
34	879.88	Boring complete at 34'. Installed well @ 32.3'.											
35	878.88												
36	877.88												
37	876.88												
38	875.88												
39	874.88												
40	873.88												

# BOREHOLE LOG MPI-14B

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 1/11/95  
 DRILLING METHOD: 8-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 913.49ft. ABOVE NGVD

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SSS Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft. BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)				
				SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RQD.						
1	912.49	FILL, Asphalt, concrete, over gravel fill, advanced augers to 2 feet w/out sampling	•••••	-	-	-	-										
2	911.49	FILL, brown moist CLAYEY SILT, w/little fine to coarse sand, little gravel, medium consistency	•••••	1 SS	2	1.2	9							JHS=0.1 ppm			
3	910.49				4												
4	909.49				5												
5	908.49	Brown moist SILTY SAND, with medium to coarse sand, some silt, little to some gravel, loose	•••••	2 SS	1	0.7	3							JHS=0.1 ppm			
6	907.49	LAMINATED, brown wet SANDY SILT, little very fine sand, liquifies when disturbed, noticed fabric texture, loose, ML	•••••	3 SS	2	1.4	5							JHS=0 ppm			
7	906.49				2												
8	905.49	Gray wet CLAYEY SILT (.15'), SANDY SILT (.15'), SILT (.1') SANDY SILT (.4'), sandy silt seams liquify when disturbed, soft	•••••	4 SS	2	1.4	8							JHS=0.1 ppm			
9	904.49				4												
10	903.49	STRATIFIED, Brown wet SILTY SAND, liquifies when disturbed, grades to drier silt, loose, SM	•••••	5 SS	3	1.2	12							JHS=0.5 ppm			
11	902.49				8												
12	901.49	Brown wet GRAVEL and SAND, trace to little silt, fine to coarse sand, loose when disturbed, loose, SW or GW	•••••	6 SS	12	1.4	14							JHS=0.3 ppm			
13	900.49	Brown wet SAND, mostly very fine to fine sand, trace silt, firm, SP	•••••	7 SS	2	0.3	9							JHS=0.2 ppm			
14	899.49				3												
15	898.49	Brown wet SAND, mostly fine sand, loose when disturbed, firm, SP	•••••	8 SS	8	1.2	10							JHS=1.0 ppm			
16	897.49	Brown wet SAND, mostly medium and fine sand, loose when disturbed, loose, SP	•••••	9 SS	2	1.2	8							JHS=0.9 ppm			
17	896.49				4												
18	895.49	Brown wet GRAVEL and SAND, trace to little silt, mostly medium to coarse sand, loose when disturbed, loose, SW or GW	•••••	8 SS	5	1.2	10							JHS=0.9 ppm			
19	894.49	one 0.05' silt seam @ 18.8' BGS	•••••	9 SS	2	1.2	8										
20	893.49				4												



# BOREHOLE LOG MPI-14B

PROJECT: MR. C CLEANERS RI  
 PROJECT NO.: 0200-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 1/11/85  
 DRILLING METHOD: 6-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION: 913.49ft. ABOVE NGVD

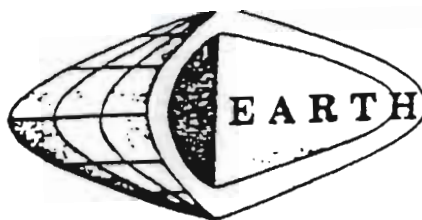
## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 NR No Recovery  
 - Sampler Refusal

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft.BGS)	ELEVATION (ft. ANSL)	SOIL/ROCK DESCRIPTION	SOIL DATA					ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RQD.
21	892.49	no recovery	o	10 SS	2 4 4 5	NR	8						JHS=3.0 ppm
22	891.49	Brown wet GRAVELLY SAND, mostly coarse sand, little gravel, little silt, loose when disturbed, loose, SW	o	11 SS	4 8 4 8		1.3	10					JHS=3.0 ppm
23	890.49		o										
24	889.49	Gray wet GRAVELLY SAND, fine to coarse sand, little gravel, little silt, loose, SW	o	12 SS	1 4 4 5		1.2	8					JHS=0 ppm
25	888.49	LAMINATED, gray wet SANDY SILT, some very fine sand, liquifies when disturbed, loose, ML	o										
26	887.49	Gray wet fine SAND, liquifies when disturbed, loose, SP	o	13 SS	4 5 5 5		0.5	10					JHS=0 ppm
27	886.49	Gray wet SILTY SAND, little silt, very fine and fine sand, liquifies when disturbed, loose, SM	o										
28	885.49	Gray wet SILTY SAND, w/little to some silt, very fine sand liquifies when disturbed, loose, SM	o	14 SS	1 1 3 2		1.0	4					JHS=0 ppm
29	884.49	Boring complete at 30'. Installed well.	o										
30	883.49												
31	882.49												
32	881.49												
33	880.49												
34	879.49												
35	878.49												
36	877.49												
37	876.49												
38	875.49												
39	874.49												
40	873.49												



# EARTH DIMENSIONS, INC.

Soil Investigations and Natural Resource Assessments

Roycroft Campus, 31 S. Grove St. • East Aurora, NY 14052 • (716) 655-1717

MONITORING WELL  
HOLE NO. 1-88 (MW-1)

SURF. ELEV. \_\_\_\_\_

PROJECT Monitoring well installation  
4F88 Agway Petroleum Station, East Aurora, NY  
F882  
CLIENT AGWAY PETROLEUM CORPORATION

LOCATION North side of station  
DATE STARTED 6/20/88 COMPLETED 6/20/88

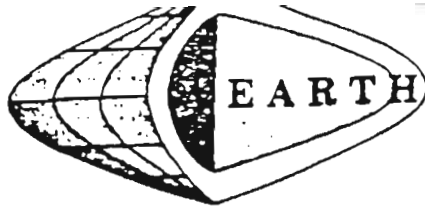
DEPTH	SAMPLE NO.	BLOWS ON SAMPLER					DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
		1	2	3	4	5			
0	1	10	0	4			Moist brown very gravelly (SILTY-SAND) fill with 40 to 60% gravel and concrete debris, fine to coarse size sand, little silt, loose when disturbed	Two (2) inch inside diameter PVC riser pipe	Cement bentonite grout
		32			46				
			14			6			
	2	5							
		10			23				
			13						
				31					
	3	11							
			14		23				
			9						
				7					
	4	4					Moist distinctly mottled olive brown shaly (CLAYEY-SILT) with 15 to 40% mostly flat, sharp edged shale fragments, little fine to coarse size sand, weakly stratified or possible fill	Two (2) inch inside diameter PVC riser pipe	Cement bentonite grout
			6		12				
				6					
					3				
	5	2							
			3		6				
				3					
					4				
10	6	1							
			3		9				
				6					
					5				
	7	WH					Wet black to 10.5 feet, distinctly mottled olive brown below, (SAND), fine to coarse size sand, trace silt, loose, thinly bedded	Two (2) inch inside diameter PVC riser pipe	Cement bentonite grout
			4		8				
				4					
					2				
	8	1							
			2		6				
				4					
					5				
	9	WH							
			2		5				
				3					
					5				
	10	2					Wet gray (SAND), fine to medium size, loose, thinly bedded	Two (2) inch inside diameter PVC riser pipe	Cement bentonite grout
			4		9				
				5					
					5				
					9				
				5					
					5				
					5				
					5				
					5				

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

LOGGED BY Donald H. Owens/Soil Scientist  
from collected soil samples

SHEET 1 OF 2

Continued on sheet 2.



EARTH

DIMENSIONS, INC.

Soil Investigations and Natural Resource Assessments

Roycroft Campus, 31 S. Grove St. • East Aurora, NY 14052 • (716) 655-1717

MONITORING WELL

HOLE NO. 1-88 continued (MW-1)

SURF. ELEV. \_\_\_\_\_

PROJECT Monitoring well installation  
4F88 Agway Petroleum Station, East Aurora, NY  
F882  
CLIENT AGWAY PETROLEUM CORPORATION

LOCATION North side of station  
DATE STARTED 6/20/88 COMPLETED 6/20/88

DEPTH feet	SAMPLE NO	BLOWS ON SAMPLER				DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
		0-6"	6-12"	12-18"	18-24"			
11	2					Wet gray (SAND), fine to medium size, loose, thinly bedded	(1) (2)	22.0
			2		6			
			4					
				5				
25						Boring completed at 22.0 feet.	(1) Two (2) inch PVC slotted screen, #10. (2) #2 size sand.	
30							Down hole drilling and split spoon sampling equipment, and PVC monitoring well supplies were steam cleaned prior to use and installation.	
							Monitoring well secured with locking cap and metal protective casing.	
35								
40								

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 lb. WT. FALLING 30 " PER BLOW.

LOGGED BY Donald W. Owens/Soil Scientist  
from collected soil samples

SHEET 2 OF 2

PROJECT Agway Petroleum Corporation **Destroyed**  
 LOCATION Bulk Plant  
 East Aurora, New York  
 DATE STARTED 5/1/84 DATE COMPLETED 5/1/84

HOLE NO 8-2 (MW-2)  
 SURF. EL.  
 JOB NO. 8461

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
 30" — ASTM D-1556, STANDARD PENETRATION TEST

GROUND WATER DEPTH  
 WHILE DRILLING 10.0'

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING  
 % OR — % CORE RECOVERY

BEFORE CASING  
 REMOVED 12.5'

AFTER CASING  
 REMOVED 9.5'

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						CONCRETE	1.0'
5.0	5.0' - 1			7/7		Brown moist stiff SILT, some fine gravel, little fine to coarse sand	
	6.5'			5	12		
10.0	10.0' - 2			7/6		Brown wet medium dense fine to coarse SAND, trace silt	10.0'
WL	11.5'			6	12		
15.0	15.0' - 3			6/4		Bottom of Boring	16.5'
	16.5'			4	8		
20.0						Note: Installed 2" P.V.C. screen 15.0' to 10.0', riser to surface with roadway box cover.	



# EARTH DIMENSIONS, INC.

DESTROYED

Soil Investigations and Monitoring Well Installations

Roycroft Campus, 31 S. Grove St. • East Aurora, NY 14052 • (716) 655-1717

MONITORING WELL  
HOLE NO 1-89 (mw-3)

SURF ELV \_\_\_\_\_

PROJECT Monitoring well installation  
4F88b Main & Whaley Sts., East Aurora, NY

LOCATION Approx. 21.0 feet west of NW corner of  
building on Whaley Road

CLIENT AGWAY PETROLEUM CORPORATION

DATE STARTED 1/26/89 COMPLETED 1/27/89

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER					DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
		0	5	10	15	N			
0.4							Concrete	0.4	Concrete to 0.4 feet over crush gravel fill to 1.0 feet over possible silty fill with some gravel to 6.0 feet over water sorted and deposited or fill consisting of silt with some gravel, little sand to 9.0 feet over water sorted and deposited sand to end of boring.
			13				Extremely moist gray crush gravel fill with 20 to 40% mostly concrete gravel, very fine to coarse sand size, compact, loose when disturbed		
				12		25			
					7				
1.0	2	5					Extremely moist distinctly mottled olive gray shaly (CLAYEY-SILT) with 20 to 40% mostly flat shale gravel, very stiff becoming firm below 4.0 feet, noticed one (1) apparent concrete chunk at 3.8 feet	3.7	
			4			9			
				5					
	3	3							
						7			
						8			
6.0	4	5					grades downward to	6.1	
			5			10	Extremely moist distinctly mottled olive gray shaly (CLAYEY-SILT) with 20 to 40% mostly shale gravel, little fine to coarse size sand, stiff weakly stratified or possible fill	7.0	
				5					
	5	10					clear transition to		
						12	Extremely moist distinctly mottled olive gray and gray (SAND) with fine to medium size sand, trace silt, compact, loose when disturbed, thinly bedded		
	6	5					grades downward to	10.0	
						15	Wet faintly mottled olive gray and dark gray (SAND) with very fine to coarse size sand, trace silt, compact tends to liquify when disturbed, thinly bedded, noticed occasional rounded to subrounded fine size gravel, noticed petroleum sheen and odor		
						9			
						7			
	8	3							
						15			
						9			
						15			
	9	4					grades downward to	12.0	
						13	Wet faintly mottled gray (SAND) with very gravelly fine to fine size sand loose, thinly bedded, noticed petroleum sheen and odor	17.0	
						10			
							grades downward to	14.0	
20									

Continued on sheet 2.

N = NUMBER OF BLOWS TO DRIVE 2 SPOON 12 WITH 140 WT FALLING 30 PER BLOW

LOGGED BY Dale M. Granza/Geologist SHEET 1 OF 2



# EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

Roycroft Campus, 31 S. Grove St. • East Aurora, NY 14052 • (716) 655-1717

MONITORING WELL

WELL NO 1-89 continued (MW-3)

SURF ELV \_\_\_\_\_

PROJECT Monitoring Well Installation

LOCATION Approx. 210 feet west of NW corner of

#88b Main & Whaley Sts., East Aurora, NY

building on Whaley Road

CLIENT AGWAY PETROLEUM CORPORATION

DATE STARTED 1/26/89 COMPLETED 1/27/89

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS																																	
			Wet grayish brown (SAND) with very fine to fine size sand, compact, readily liquifies when disturbed, thinly bedded with occasional thin coarse silt lenses 1/16 to 1/8 inch thick, slight petroleum odor 18.0  Boring completed at 18.0 feet.	<table border="1"> <thead> <tr> <th colspan="3">OVM Readings</th> </tr> <tr> <th>Sample #</th> <th>Interval</th> <th>ppm Reading</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.0 - 2.0</td><td>0</td></tr> <tr><td>2</td><td>2.0 - 4.0</td><td>2.0</td></tr> <tr><td>3</td><td>4.0 - 6.0</td><td>17.5</td></tr> <tr><td>4</td><td>6.0 - 8.0</td><td>1.7</td></tr> <tr><td>5</td><td>8.0 - 10.0</td><td>27.0</td></tr> <tr><td>6</td><td>10.0 - 12.0</td><td>49.5</td></tr> <tr><td>7</td><td>12.0 - 14.0</td><td>47.0</td></tr> <tr><td>8</td><td>14.0 - 16.0</td><td>16.0</td></tr> <tr><td>9</td><td>16.0 - 18.0</td><td>4.0</td></tr> </tbody> </table>	OVM Readings			Sample #	Interval	ppm Reading	1	0.0 - 2.0	0	2	2.0 - 4.0	2.0	3	4.0 - 6.0	17.5	4	6.0 - 8.0	1.7	5	8.0 - 10.0	27.0	6	10.0 - 12.0	49.5	7	12.0 - 14.0	47.0	8	14.0 - 16.0	16.0	9	16.0 - 18.0	4.0
OVM Readings																																					
Sample #	Interval	ppm Reading																																			
1	0.0 - 2.0	0																																			
2	2.0 - 4.0	2.0																																			
3	4.0 - 6.0	17.5																																			
4	6.0 - 8.0	1.7																																			
5	8.0 - 10.0	27.0																																			
6	10.0 - 12.0	49.5																																			
7	12.0 - 14.0	47.0																																			
8	14.0 - 16.0	16.0																																			
9	16.0 - 18.0	4.0																																			
25																																					
30																																					
35																																					

N = NUMBER OF BLOWS TO DRIVE 2 " SPOON 12 " WITH 140 LB WT FALLING 30 PER BLOW.

LOGGED BY Dale M. Gramza/Geologist

SHEET 2 OF 2



# EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

Roycroft Campus, 31 S. Grove St. • East Aurora, NY 14052 • (716) 655-1717

MONITORING WELL  
HOLE NO 2-89 (MW-4)

SURF ELV \_\_\_\_\_

PROJECT Monitoring well installation

LOCATION Approx. 10.0 feet south of SW corner

4F88b Main & Whaley Sts., East Aurora, NY

of pump island

CLIENT AGWAY PETROLEUM CORPORATION

DATE STARTED 1/27/89 COMPLETED 1/27/89

DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER				DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS	
		6	12	18	24				
1						Concrete 0.4	Four (4) inch inside diameter PVC riser pipe. Coarset Bentonite Grout	Concrete to 0.4 feet over crush gravel fill to 0.9 feet over silty fill with some gravel to 2.5 feet over silty soil fill with little gravel trace to little sand to 4.0 feet over water sorted and deposited silt with some gravel to 8.0 feet over water sorted and deposited sand and gravel with some silt to 11.0 feet over water sorted and deposited sand to end of boring	
	5				10	Extremely moist gray crush gravel fill with 20 to 40% mostly concrete gravel, very fine to coarse sand size, loose 0.9			
					4				
2	6					Extremely moist dark gray shaly silt loam (CLAYEY-SILT) fill with 15 to 40% shale gravel, stiff			4.7
					7				
					3	----- grades downward to ----- 2.5			
3	8					Extremely moist olive brown silt loam (CLAYEY-SILT) fill with 5 to 15% gravel, trace to little very fine size sand, firm 4.0			6.6
					14				
5					28	Extremely moist distinctly mottled olive brown to olive gray shaly (CLAYEY-SILT) with 15 to 40% mostly shale gravel, very stiff becoming stiff below 6.0 feet, weakly stratified, noticed one (1) wet olive brown (SAND) lens between 4.1 to 4.2 feet			7.3
					7				
					4	----- grades downward to ----- 8.0			
					13	Extremely moist highly mottled olive gray very gravelly (SILTY-SAND) with 40 to 60% mostly subangular gravel, very fine to coarse size sand, some silt, compact, weakly stratified, noticed distinct petroleum odor	17.3		
					12				
					25	----- clear transition to ----- 11.0			
10					22	Wet alternating olive brown and gray (SAND) very fine to medium size sand, dense, tends to liquify when disturbed, thinly bedded with coarse silt lenses, noticed distinct petroleum odor with some oil sheen	18.0		
					27				
					20	----- grades downward to ----- 12.0			
					39				
					8				
					4				
					11				
					9				
15					23				
					14				
					18				
					11				
					11				
20									

Continued on sheet 2

N= NUMBER OF BLOWS TO DRIVE 2 SPOON 12 WITH 140 lb WT FALLING 30 PER BLOW

LOGGED BY Dale M. Granza/Geologist SHEET 1 OF 2



# EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

Roycroft Campus, 31 S. Grove St. • East Aurora, NY 14052 • (716) 655-1717

MONITORING WELL

WELL NO. 7-89 Continued (MW-4)

SURF ELV. \_\_\_\_\_

PROJECT Monitoring well installation

LOCATION Approx. 10.0 feet south of SW corner

F88b Main & Whaley Sts., East Aurora, NY

of pump island

CLIENT AGWAY PETROLEUM CORPORATION

DATE STARTED 1/27/89 COMPLETED 1/27/89

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER	DESCRIPTION & CLASSIFICATION	WATER TABLE & REMARKS																																
				Sample#	Interval	SPM																														
			Wet gray (SAND) with fine to coarse size sand, compact, loose when disturbed, thinly bedded with occasional subrounded gravel fragment 15.0																																	
			Wet faintly mottled brown (SAND) with very fine to fine size sand, trace silt, compact, tends to liquify when disturbed, thinly bedded 18.0																																	
25			Boring completed at 18.0 feet.	<p style="text-align: center;"><u>OWM Readings</u></p> <table border="1"> <thead> <tr> <th>Sample#</th> <th>Interval</th> <th>SPM</th> </tr> </thead> <tbody> <tr><td>1</td><td>0.0 - 2.0</td><td>0</td></tr> <tr><td>2</td><td>2.0 - 4.0</td><td>0</td></tr> <tr><td>3</td><td>4.0 - 6.0</td><td>0</td></tr> <tr><td>4</td><td>6.0 - 8.0</td><td>11</td></tr> <tr><td>5</td><td>8.0 - 10.0</td><td>165</td></tr> <tr><td>6</td><td>10.0 - 12.0</td><td>227</td></tr> <tr><td>7</td><td>12.0 - 14.0</td><td>174</td></tr> <tr><td>8</td><td>14.0 - 16.0</td><td>4.6</td></tr> <tr><td>9</td><td>16.0 - 18.0</td><td>4.1</td></tr> </tbody> </table>			Sample#	Interval	SPM	1	0.0 - 2.0	0	2	2.0 - 4.0	0	3	4.0 - 6.0	0	4	6.0 - 8.0	11	5	8.0 - 10.0	165	6	10.0 - 12.0	227	7	12.0 - 14.0	174	8	14.0 - 16.0	4.6	9	16.0 - 18.0	4.1
Sample#	Interval	SPM																																		
1	0.0 - 2.0	0																																		
2	2.0 - 4.0	0																																		
3	4.0 - 6.0	0																																		
4	6.0 - 8.0	11																																		
5	8.0 - 10.0	165																																		
6	10.0 - 12.0	227																																		
7	12.0 - 14.0	174																																		
8	14.0 - 16.0	4.6																																		
9	16.0 - 18.0	4.1																																		
30																																				
35																																				
40																																				

N = NUMBER OF BLOWS TO DRIVE 2 SPOON 12 WITH 140 LB WT FALLING 30 PER BLOW

LOGGED BY Dale M. Gramza/Geologist SHEET 2 OF 2



PROJECT Agway Petroleum Corporation  
 LOCATION Bulk Plant  
 East Aurora, New York  
 DATE STARTED 5/1/84 DATE COMPLETED 5/1/84

HOLE NO. 8-4 (MW-5)  
 SURF. EL.  
 JOB NO. 3461

N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
 30" — ASTM D-1586, STANDARD PENETRATION TEST

GROUND WATER DEPTH  
 WHILE DRILLING 10.0'

C — NO. OF BLOWS TO DRIVE CASING 12" W/ # HAMMER FALLING  
 \*10R — % CORE RECOVERY

BEFORE CASING  
 REMOVED 10.0'

AFTER CASING  
 REMOVED 12.0'

CASING TYPE - HOLLOW STEM AUGER

SHEET 1 OF 1

DEPTH	SAMPLE DEPTH	SAMPLE NUMBER	C	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						CONCRETE	1.3'
5.0						Brown moist stiff SILT, little fine to coarse sand	
	5.0' - 6.5'	1		8/9 6	15		
10.0							10.0'
WL	10.0' - 11.5'	2		12/13 13	26	Brown wet very stiff SILT, little fine to coarse gravel, little fine to coarse sand	13.0'
15.0						Brown wet medium dense fine to medium SAND, trace silt	
	15.0' - 16.5'	3		8/8 5	13		
20.0						Bottom of Boring	16.5'
						Note: Installed 2" P.V.C. screen 15.0' to 10.0', riser to surface with roadway box cover.	

DATE

STARTED: 5-7-92FINISHED: 5-7-92**EMPIRE**  
SOILS INVESTIGATIONS INC.**SUBSURFACE**  
**LOG**

BTA-92-100

BORING NO.: ESI-1SURF. ELEV.: 917.2 ±SHEET 1 OF 1PROJECT: Spill No. 9109437LOCATION: First Presbyterian ChurchCLIENT: NYSDEC Pin No. SP91343East Aurora, New York

DEPTH-FT.	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER					P. I. D.	SYMBOL	SOIL OR ROCK CLASSIFICATION	NOTES
			0	6	12	18	24				
0		1	1	4	3	6	7	BG-2.2	3.5" TOPSOIL Brown Clayey SILT, Some Sand, trace glass, trace roots (Moist, FILL) ----- Brown fine - coarse SAND and Silt, little fine Gravel (Moist, FILL) ----- Brown fine - coarse SAND, little Silt, little Gravel (Moist-Wet, Loose) Contains trace silt, trace gravel (Wet) (Firm)	Driller Notes Water at Approximately 11-feet  Driller Notes "Running Sands" at 16-feet Auger from 18.0' to 20.0'	
		2	10	7	7	6	14	BG-2.3			
5		3	5	3	3	4	6	BG			
		4	8	6	6	7	12	BG			
		5	5	4	6	5	10	BG			
10		6	21	5	5	6	10	BG			
		7	8	7	7	5	14	BG			
15		8	5	6	6	6	12	BG			
		9	7	7	7	7	14	BG			
			AU	G	E	R					
20									Boring Complete at 20.0'	Free Standing Water Measured at 11' at Boring Completion P.I.D. = Organic vapor measurements taken with a Photoionization Detector (PID). Measurements recorded in parts per million (ppm). BG = Background PID measurements = 1.5 - 1.8 ppm	
									Ground Water Monitoring Well Installed at Boring Completion Well Tip Set at 18' below ground surface. Refer to Well Installation Diagram for Details		
25											
30											
35											
40											

DRILLER: Ken FullerDRILL RIG: Acker ADIIMETHOD OF INVESTIGATION: ASTM D-1586 Using 4 - 1/4" Hollow Stem AugersWEATHER: Sunny, WarmCLASSIFIED BY: L.A. Zimmerman

DATE

STARTED: 5-7-92FINISHED: 5-7-92**EMPIRE**

SOILS INVESTIGATIONS INC.

**SUBSURFACE  
LOG**

BTA-92-100

BORING NO.: ESI-2SURF. ELEV.: 918.1 ±SHEET 1 OF 1PROJECT: Spill No. 9109437LOCATION: First Presbyterian ChurchCLIENT: NYSDEC Pin No. SP91343East Aurora, New York

DEPTH-FT.	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER						P. I. D.	SYMBOL	SOIL OR ROCK CLASSIFICATION	NOTES
			0	6	12	18	24	N				
0		1	4	4	5	6	9	BG	⊗	Black - Brown Sandy SILT, Some Cinders, trace slag (Moist, Fill)		
		2	4	4	6	11	10	BG	⊗	Brown Clayey SILT, Little Shale Rock Fragment (Moist, Medium)		
5		3	4	12	9	10	21	BG-2.8		Contains occasional Medium Sand Lense (Moist - Wet) Contains Little Sand		
		4	7	7	8	6	15	BG				
		5	6	4	3	4	7	2.5-3.0				
10		6	4	4	5	8	9	BG-2.5		Brown Fine -Coarse SAND, Some Clayey Silt, trace gravel (Moist, Loose) Contains "AND" Fine - Coarse Gravel (Wet, Firm)	Driller Notes Water at Approximately 12-feet	
		7	6	7	8	9	15	BG-3.0				
15		8	22	13	13	15	26	BG		Contains Occasional Shale Rock Fragment Contains Little Silt, trace gravel	Driller Notes "Running Sands" at Bottom of Hole	
		9	10	12	10	10	22	BG				
		10	10	4	7	7	11	BG		(Loose)		
20										Boring Complete at 20.0'		
25										Ground Water Monitoring Well Installed at Boring Completion Well Tip Set at 19' below ground surface Refer to Well Installation Diagram for Details	Free Standing Water Measured at 16.2' at Boring Completion P.I.D. = Organic vapor measurements taken with a Photoionization Detector (PID). Measurements recorded in parts per million (ppm). BG = Background PID Measurements = 1.8 - 2.4 ppm	
30												
35												
40												

DRILLER: Ken FullerDRILL RIG: Acker ADIIMETHOD OF INVESTIGATION: ASTM D-1586 Using 4 - 1/4" Hollow Stem AugersWEATHER: Sunny, WarmCLASSIFIED BY: L.A. Zimmerman

DATE

STARTED: 5-11-92FINISHED: 5-11-92**EMPIRE**

SOILS INVESTIGATIONS INC.

**SUBSURFACE  
LOG**

BTA-92-100

BORING NO.: ESI-3SURF. ELEV.: 916.4 ±SHEET 1 OF 1PROJECT: Spill No. 9109437LOCATION: First Presbyterian ChurchCLIENT: NYSDEC Pin No. SP91343East Aurora, New York

DEPTH-FT.	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER					P. I. D.	SYMBOL	SOIL OR ROCK CLASSIFICATION	NOTES
			0-6	6-12	12-18	18-24	N				
0			AU	G	E	R			1' ASPHALTIC CONCRETE		
		1	7	7	8	6	15	BG-1.2	Brown Clayey SILT, Little Fine - Coarse Sand, trace gravel, trace broken rock fragment, trace brick (Moist, FILL)	PID reading 10.5 - 11 ppm inside augers with augers set at 10' Driller Notes Water at Approximately 10-feet	
		2	5	5	5	3	10	BG-1.8			
5		3	4	4	4	34	8	7.0-8.0	Brown Clayey SILT, Little Sand, occasional broken rock fragment (Moist, Medium)		
		4	7	5	5	5	10	13.7-14			
10		5	11	5	3	4	8	9.5-10	Brown Fine - Coarse SAND, Little fine Gravel, Little Silt (Wet, Loose) Contains "AND" Fine - Medium Gravel, trace silt (Firm)		
		6	5	7	12	8	19	2.5-3.0			
15		7	6	8	10	14	18	2.5-3.0			
		8	19	16	12	14	28	1.5-1.8			
20									Boring Complete at 18'	Free Standing Water measured at 15.5' at Boring Completion	
									Ground Water Monitoring Well Installed at Boring Completion Well Tip Set at 17' below ground surface Refer to Well Installation Diagram for Details		
25										P.I.D= Organic vapor measurements taken with a Photoionization Detector (PID). Measurements recorded in parts per million (ppm). BG= Background PID measurements = 0.8 - 1.0 ppm	
30											
35											
40											

DRILLER: Ken FullerDRILL RIG: Acker ADIIMETHOD OF INVESTIGATION: ASTM D-1586 Using 4 - 1/4" Hollow Stem AugersWEATHER: Sunny, WarmCLASSIFIED BY: L.A. Zimmerman

DATE

STARTED: 5-11-92FINISHED: 5-11-92**EMPIRE**

SOILS INVESTIGATIONS INC.

**SUBSURFACE  
LOG**

BTA-92-100

BORING NO.: ESI-4SURF. ELEV.: 913.6 ±SHEET 1 OF 1PROJECT: Spill No. 9109437LOCATION: First Presbyterian ChurchCLIENT: NYSDEC Pin No. SP91343East Aurora, New York

DEPTH-FT.	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER					P. I. D.	SYMBOL	SOIL OR ROCK CLASSIFICATION	NOTES
			0	6	12	18	24				
0			A	U	G	E	R			1' ASPHALTIC CONCRETE	
		1	5	7	9	9	16	BG-		Brown Clayey SILT, Some Sand, occasional broken shale rock fragments (Moist, Medium)	
								2.5			
5		2	8	6	6	6	12	BG-		Contains occasional fine - medium Sand Parting	
								2.4			
		3	8	7	5	5	12	BG-		Brown Fine - Coarse SAND, Some fine Gravel, Little Silt (Wet, Loose) Contains trace gravel, trace silt (Firm)	Driller Notes Water at Approximately 8.5-feet
								2.6			
		4	3	5	6	9	11	BG		(Loose)	Driller notes "Running Sands" at bottom of hole
10		5	9	9	9	11	18	BG-			
								2.5			
		6	5	10	7	18	17	BG-			
								2.6			
15		7	4	4	4	7	8	BG-			
								3.0			
										Boring Complete at 16.0'	Free Standing Water measured at 11.7' at Boring Completion
20										Ground Water Monitoring Well Installed at Boring Completion	P.I.D. = Organic vapor measurements taken with a Photoionization Detector (PID). Measurements recorded in parts per million (ppm). BG = Background PID measurements = 1.5 - 2.0 ppm
										Well Tip Set at 15' below ground surface	
										Refer to Well Installation Diagram for Details	
25											
30											
35											
40											

DRILLER: Ken FullerDRILL RIG: Acker ADIIMETHOD OF INVESTIGATION: ASTM D-1586 Using 4 - 1/4" Hollow Stem AugersWEATHER: Sunny, WarmCLASSIFIED BY: L.A. Zimmerman

DATE

STARTED: 5-8-92FINISHED: 5-8-92**EMPIRE**

SOILS INVESTIGATIONS INC.

**SUBSURFACE  
LOG**

BTA-92-100

BORING NO.: ESI-5SURF. ELEV.: 912.9 ±SHEET 1 OF 1PROJECT: Spill No. 9109437LOCATION: First Presbyterian ChurchCLIENT: NYSDEC Pin No. SP91343East Aurora, New York

DEPTH-FT.	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER					P.I.D.	SYMBOL	SOIL OR ROCK CLASSIFICATION	NOTES
			0/6	6/12	12/18	18/24	N				
0									1' ASPHALTIC CONCRETE		
									6" SUBBASE STONE		
		1	9	7	7	11	14	BG	Brown Clayey Silt, Little Sand, trace broken shale fragment, trace cinder (Moist, FILL)		
5		2	8	6	5	10	11	BG			
		3	8	6	5	5	11	*		* No Recovery on Sample #3	
		4	4	4	4	7	8	BG	Brown Fine - Medium SAND, Little Silt (Wet, Loose) (Firm)	Driller Notes Water at Approximately 8-feet	
10		5	17	5	7	9	12	BG			
		6	7	7	10	13	17	BG			
15		7	4	4	6	7	10	BG			
									Boring Complete at 16'		
20									Ground Water Monitoring Well Installed at Boring Completion Well Tip Set at 15' below ground surface Refer to Well Installation Diagram for Details	Free Standing Water not measured at Boring Completion P.I.D. = Organic vapor measurements taken with a Photoionization Detector (PID). Measurements recorded in parts per million (ppm). BG = Background PID measurements = 1.5 - 2.0 ppm	
25											
30											
35											
40											

DRILLER: Ken FullerDRILL RIG: Acker AD11METHOD OF INVESTIGATION: ASTM D-1586 Using 4 - 1/4" Hollow Stem AugersWEATHER: Sunny, WarmCLASSIFIED BY: L.A. Zimmerman

DATE


STARTED: 5-8-92FINISHED: 5-8-92**EMPIRE**

SOILS INVESTIGATIONS INC.

**SUBSURFACE  
LOG**

BTA-92-100

BORING NO.: ESI-6SURF. ELEV.: 914.9 ±SHEET 1 OF 1PROJECT: Spill No. 9109437LOCATION: First Presbyterian ChurchCLIENT: NYSDEC Pin No. SP91343East Aurora, New York

DEPTH-FT.	SAMPLES	SAMPLE NO	BLOWS ON SAMPLER					P. I. D.	SYMBOL	SOIL OR ROCK CLASSIFICATION	NOTES
			0	6	12	18	24				
0		1	8	6	5	5	11	BG	 3" TOPSOIL Brown Clayey SILT, Little Sand, trace roots, trace cinders, trace brick (Moist, FILL)	Poor Recovery Sample #3  Driller Notes Water at Approximately 10-foot  Driller notes "Running Sands" at bottom of hole	
		2	4	3	3	5	6	BG			
5		3	16	17	19	17	36	BG			
		4	10	10	9	6	19	BG			
		5	3	4	12	21	16	BG			
10		6	13	7	7	13	14	BG			
		7	16	11	13	13	24	BG			
15		8	30	88	16	14	104	BG			
		9	10	9	10	7	19	BG			
20									Boring Complete at 18'  Ground Water Monitoring Well Installed at Boring Completion Well Tip Set at 17' below ground surface Refer to Well Installation Diagram for Details	Free Standing Water measured at 10' at Boring Completion P. I. D. = Organic vapor measurements taken with a Photoionization Detector (PID). Measurements recorded in parts per million (ppm). BG = Background PID measurements = 1.5 - 2.0 ppm	
40											

DRAWN BY: Ken MillerCHECKED BY: Ken MillerMETHOD OF INVESTIGATION: ASTM D-1586 Using 4 - 1/4" Hollow Stem AugersWEATHER: Sunny, WarmCLASSIFIED BY: L.A. Zimmerman

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY PROJECT #: 93-065  
 CLIENT: Agway Energy WELL/BORING #: MW5 At-2  
 DATE STARTED: 2/12/93 DATE COMPLETED: 9/24/93 RECORDED BY: EAP MWiC  
 GROUNDWATER DEPTH WHILE DRILLING: \_\_\_\_\_ AFTER COMPLETION: \_\_\_\_\_  
 WEATHER: Sunny 55° DRILL RIG: Mobil D-40 (track) DRILLERS: Buffalo Drilling  
 DRILL TYPE/SIZE: 3 3/4 Auger SAMPLER HAMMER: WEIGHT FALL

SAMPLE NO.	OVA/HNU READING	DEPTH OF SAMPLE (FEET)		SAMPLE TYPE	BLOWS ON SAMPLER PER 6"	N	AMOUNT	MATERIAL CLASSIFICATION (BURMISTER SYSTEM)
		FROM	TO					
S1	0.0	4	6	SS	8-6-4-4	10	50%	Brown fm SILT and CLAY some fm GRAVEL Mosit no odor
S2	193.2	9	11	SS	11-6-6-5	12	50%	Gray SILT and SAND Wet slight petro odor
S3	12.7	14	16	SS	1-6-11-15	17	100%	Brown fm SAND Wet no odor

REMARKS:



Matrix Environmental Technologies Inc.

# SUBSURFACE LOG

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY

PROJECT #: 93-065

CLIENT: Agway Energy

WELL/BORING #: MW6 A(-7)

DATE STARTED: 2/12/93

DATE COMPLETED: 9/24/93

RECORDED BY: EAP

GROUNDWATER DEPTH WHILE DRILLING: \_\_\_\_\_

AFTER COMPLETION: \_\_\_\_\_

WEATHER: Sunny 55°

DRILL RIG: Mobil D-40 (track)

DRILLERS: Buffalo Drilling

DRILL TYPE/SIZE: 3 3/4 Auger

SAMPLER HAMMER: WEIGHT \_\_\_\_\_ FALL \_\_\_\_\_

SAMPLE NO.	OVA/HNU READING	DEPTH OF SAMPLE (FEET)		SAMPLE TYPE	BLOWS ON SAMPLER PER 6"	N	AMOUNT	MATERIAL CLASSIFICATION (BURMISTER SYSTEM)
		FROM	TO					
S1	0.0	4	6	SS	18-13-16-16	29	25%	Brown fm SAND and SILT some mc GRAVEL Damp no odor
S2	94.3	9	11	SS	1-2-3-2	5	25%	Brown mc GRAVEL Wet slight petro odor
S3	12	15	17		WOR 5-10-6	15	100%	Brown fm SAND Wet slight petro odor

WATER @ 11.5'

REMARKS:

\*SS-SPLIT SPOON SAMPLE    U-UNDISTURBED TUBE    P-PISTON TUBE    C-CORE

Matrix Environmental Technologies Inc.

# SUBSURFACE LOG

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY PROJECT #: 93-065  
 CLIENT: Agway Energy WELL/BORING #: MW7 Ag 2  
 DATE STARTED: 2/12/93 DATE COMPLETED: 9/24/93 RECORDED BY: EAP  
 GROUNDWATER DEPTH WHILE DRILLING: \_\_\_\_\_ AFTER COMPLETION: \_\_\_\_\_  
 WEATHER: Sunny 55° DRILL RIG: Mobil D-40 (track) DRILLERS: Buffalo Drilling  
 DRILL TYPE/SIZE: 3 3/4 Auger SAMPLER HAMMER: WEIGHT FALL

SAMPLE NO.	OVA/HNU READING	DEPTH OF SAMPLE (FEET)		SAMPLE TYPE	BLOWS ON SAMPLER PER 6"	N	AMOUNT	MATERIAL CLASSIFICATION (BURMISTER SYSTEM)
		FROM	TO					
S1	0.0	4	6	SS	10-6-4-3	10	50%	Brown SILT and CLAY Dry no odor
S2	0.0	9	11	SS	4-6-10-8	16	75%	Brown fm SAND Damp no odor
S3	11.3	15	17	SS	5-8-7-12	15	75%	Brown mf SAND Wet no odor

REMARKS:

\*SS-SPLIT SPOON SAMPLE    U-UNDISTURBED TUBE    P-PISTON TUBE    C-CORE

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY PROJECT #: 93-065  
 CLIENT: Agway Energy WELL/BORING #: MWB AG 9  
 DATE STARTED: 2/12/93 DATE COMPLETED: 9/24/93 RECORDED BY: EAP  
 GROUNDWATER DEPTH WHILE DRILLING: \_\_\_\_\_ AFTER COMPLETION: \_\_\_\_\_  
 WEATHER: Sunny 55° DRILL RIG: Mobil D-40 (track) DRILLERS: Buffalo Drilling  
 DRILL TYPE/SIZE: 3 3/4 Auger SAMPLER HAMMER: WEIGHT FALL

SAMPLE NO.	OVA/HNU READING	DEPTH OF SAMPLE (FEET)		SAMPLE TYPE	BLOWS ON SAMPLER PER 6"	N	AMOUNT	MATERIAL CLASSIFICATION (BURMISTER SYSTEM)
		FROM	TO					
S1	0.0	4	6	SS	14-12-14-9	26	50%	Brown SILT and CLAY trace m GRAVEL (shale) Dry no odor
S2	0.0	9	11	SS	7-8-7-8	15	25%	Brown SILT and CLAY trace GRAVEL Moist no odor
S3	72.3	15	17	SS	2-5-7-5	12	100%	Brown SAND Wet slight petro odor

REMARKS:

\*SS-SPLIT SPOON SAMPLE    U-UNDISTURBED TUBE    P-PISTON TUBE    C-CORE

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY PROJECT #: 93-065  
 CLIENT: Agway Energy WELL/BORING #: MW9 A10  
 DATE STARTED: 2/12/93 DATE COMPLETED: 9/24/93 RECORDED BY: EAP  
 GROUNDWATER DEPTH WHILE DRILLING: \_\_\_\_\_ AFTER COMPLETION: \_\_\_\_\_  
 WEATHER: Sunny 55° DRILL RIG: Mobil D-40 (track) DRILLERS: Buffalo Drilling  
 DRILL TYPE/SIZE: 3 3/4 Auger SAMPLER HAMMER: WEIGHT FALL

SAMPLE NO.	OVA/HNU READING	DEPTH OF SAMPLE (FEET)		SAMPLE TYPE	BLOWS ON SAMPLER PER 6"	N	AMOUNT	MATERIAL CLASSIFICATION (BURMISTER SYSTEM)
		FROM	TO					
S1	140.3	4	6	SS	4-5-10-9	15	75%	Gray fm SILT and CLAY trace m GRAVEL Damp petro odor
S2	140.6	9	11	SS	6-7-11-18	18	75%	Gray fm SILT and GRAVEL Damp petro odor
S3	49.5	15	17	SS	3-5-8-9	13	75%	Gray mc SAND Wet petro odor

WATER @ 12'10"

REMARKS:

\*SS-SPLIT SPOON SAMPLE    U-UNDISTURBED TUBE    P-PISTON TUBE    C-CORE

# BOREHOLE LOG SB-1

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/14/94  
 DRILLING METHOD: 2-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers  
 SSLA Sample submitted for laboratory analysis

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% ROD.
1	-1	FILL Concrete to 0.5 feet	•••		1								JHS=0.1 ppm
2	-2	TILL, Brown moist SANDY SILT, with little gravel, trace clay, loose, ML	○	1 SS	2 3 5	0.2	5						JHS=0.3 ppm
3	-3	Brown moist CLAYEY SANDY SILT, with little gravel, trace to little clay, moist, medium consistence, ML	○	2 SS	2 5 7 8	0.8	12						JHS=0.7 ppm
4	-4	Brown moist SANDY GRAVELLY SILT, trace clay, gravel up to 1.5", fine to coarse sand, firm, massive, SM	○	3 SS	3 8 5 8	0.7	13						JHS=1.2 ppm
6	-6	Brown extremely moist SANDY GRAVEL W/SILT, little silt, loose, GM	○	4 SS	3 3 3 2	1.0	8						JHS=200 ppm SSLA
8	-8	STRATIFIED Brown wet SAND, with trace to little silt, mostly medium sand, trace coarse sand, loose, SP-SM	○	5 SS	2 3 4 4	1.0	7						JHS=220 ppm SSLA
10	-10		○	8 SS	2 2 4 4	1.0	8						
12	-12	Boring complete at 12'. Advanced augers to 10' BGS. Back filled borehole with drill cuttings and cement.											
13	-13												
14	-14												
15	-15												
16	-16												
17	-17												
18	-18												
19	-19												
20	-20												

# BOREHOLE LOG SB-2

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0288-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 12/15/94  
 DRILLING METHOD: 2-1/4" HSA  
 LOGGED/CHECKED BY: JMA/RHO  
 SURFACE ELEVATION:

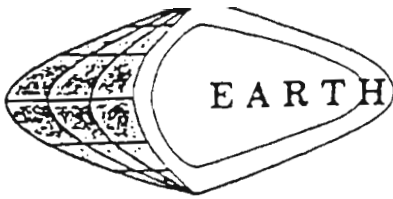
## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers  
 SSLA Sample submitted for laboratory analysis

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('N' %)

DEPTH (ft.BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RGD.
1	-1	FILL, Asphalt to 0.5 feet			1								JHS=0.6 ppm
		Dark gray moist SILT with sand and gravel, loose, SM		1 SS	3 4 4	1.0	7						JHS=0.6 ppm
2	-2	TILL, Brown moist CLAYEY SILT, with little gravel and sand, medium consistence, CL		2 SS	2 5 7 8	1.3	12						JHS=1.4 ppm
4	-4	Brown moist CLAYEY SILTY SAND, with little shale gravel, loose when disturbed, loose, SM		3 SS	2 8 7 9	1.1	13						JHS=2.0
5	-5			4 SS	3 5 8 9	1.2	13						JHS=14.3 ppm SSLA
6	-6			5 SS	9 5 5 5	0.7	10						
8	-8	STRATIFIED Brown moist GRAVELLY SAND, w/15-40% gravel, mostly coarse sand, little medium, trace silt, loose, SP											
9	-9												
10	-10	Boring complete at 10'. Collected water sample at 13' w/ Hydropunch sampler. Advanced augers to 10' BGS. Borehole backfilled with drill cuttings and cement.											
11	-11												
12	-12												
13	-13												
14	-14												
15	-15												
16	-16												
17	-17												
18	-18												
19	-19												
20	-20												



# EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

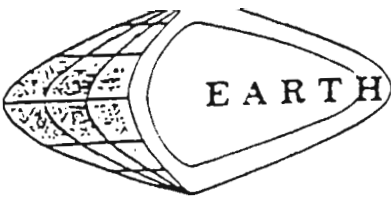
1091 Jamison Road • Elma, NY 14059 • (716) 655-1717

RECOVERY WELL HOLE NO. 1-90 (RW) (Destroyed) SURF. ELV. \_\_\_\_\_  
 PROJECT Continuous soil sampling and installation location 1.9 feet northwest of MW 4  
of new 6 inch recovery well, Agway Petroleum  
Products, East Aurora, NY  
 CLIENT AGWAY PETROLEUM PRODUCTS DATE STARTED 12/14/90 COMPLETED 12/14/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER					DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
		C	E	12	E	A			
							Cement pavement 0.45		Concrete to 0.45 feet
1	2						Moist to extremely moist dark brown gravelly sandy loam (SILTY-SAND) fill with 20 to 40% gravel, very fine to fine size sand, little silt, compact in place, loose when disturbed 1.0	6" MC Riser pipe Galvanneal 17.2	over sand and gravel sub base fill to 1.0 feet
									over silty soil fill with little gravel to 4.0 feet
2	2						Moist to extremely moist faintly mottled dark brown gravelly silt loam (CLAYEY-SILT) fill with 15 to 30% mostly shale gravel, little clay, soft 4.0	6" MC Riser pipe Galvanneal 17.2	over coarse silty to silty soil fill with little gravel to 5.0 feet over
									apparent clayey soil fill with little gravel to 8.0 feet over apparent water
5	2						grades downward to 4.0	6" MC Riser pipe Galvanneal 17.2	sorted and deposited (possible fill) sand with
									little gravel and silt to
							Extremely moist to wet light olive gray gravelly silt loam (SANDY-SILT) tending toward silt loam (CLAYEY-SILT) fill with 15 to 30% mostly subangular shale gravel, little very fine size sand, trace to little clay, very loose and soft 6.0	6" MC Riser pipe Galvanneal 17.2	9.5 feet over apparent
									coarse silty glacial drift (possible fill) to
10	5						clear transition to 5.0	6" MC Riser pipe Galvanneal 17.2	11.0 feet over water
									sorted and deposited
							Extremely moist faintly mottled light gray shaly silty clay loam (CLAYEY-SILT) fill with 15 to 40% mostly angular to subangular shale gravel, some clay, stiff to firm 8.5	6" MC Riser pipe Galvanneal 17.2	sand with little gravel, little to some silt to
									13.0 feet over water
15	3						Wet dark gray gravelly sandy loam (SILTY-SAND) with 15 to 30% subrounded gravel, very fine to medium size sand, little silt, loose 9.5	6" MC Riser pipe Galvanneal 17.2	sorted and deposited sand with trace silt to end of boring.
							Moist to extremely moist mixed dark gray and light olive gray gravelly silt loam (SANDY-SILT) with 15 to 30% mostly subangular gravel, little very fine to fine size sand, compact 11.0	6" MC Riser pipe Galvanneal 17.2	* Jack hammer and shovel down without sampling to 1.0 feet
									(1) 550 fine size sand
							Extremely moist to wet dark gray gravelly sandy loam (SILTY-SAND) with 15 to 30% mostly subrounded to subangular gravel, very fine to medium size sand, little to some silt, compact, strati-	6" MC Riser pipe Galvanneal 17.2	
20	2						ified, (noticed oil sheen on water) 19.2	6" MC Riser pipe Galvanneal 17.2	Continued on sheet 1A.
							clear transition to 3.0		20.0

N = NUMBER OF BLOWS TO DRIVE 2 SPOON 12 WITH 140 WT BALLING 20 PER BLOW

LOGGED BY Dale M. Granza/Geologist - Greg H. Gill/Geologist SHEET 1 OF 1A



# EARTH DIMENSIONS, INC.

Soil Investigations and Monitoring Well Installations

1091 Jamison Road • Elma, NY 14059 • (716) 655-1717

RECOVERY WELL

HOLE NO. 1-90 continued (RW)

SURF ELV \_\_\_\_\_

PROJECT Continuous soil sampling and installation of new 6 inch recovery well, Agway Petroleum Products, East Aurora, NY LOCATION 1.9 feet northwest of M/A

CLIENT AGWAY PETROLEUM PRODUCTS

DATE STARTED 12/14/90

COMPLETED 12/14/90

DEPTH FEET	SAMPLE NO.	BLOWS ON SAMPLER				DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
		0-6	6-12	12-18	18-24			
1	2				4	See previous sheet.	6" PVC riser pipe banquette 17.2 (1) 17.7 9.2 (1) 550 fine size sand 19.2 20.0	
			2					
				2				
					3			
2	2							
			2		4			
				2				
5					4			
	3	2						
		5			12			
			7					
	4	3			6			
			3					
				3				
10	5	2						
		5			15			
			10					
	6	8			13			
			13		25			
				13				
					11			
15	7	1						
		3			8			
			5					
				6				
	8	2						
		1			5			
			4					
				7				
	9	2						
		3			6			
			3					
				4				
20	10	2						
		3						

Wet brown loamy sand (SAND) with very fine to fine size sand, trace silt, loose soil material tends to liquefy when disturbed, thinly bedded (noticed oil sheen on ground water) 20.0

Boring completed at 20.0 feet.

----- clear transition to ----- 13.0

Interval	Depth
1.0-3.0	2.0
3.0-5.0	4.0
5.0-7.0	6.0
	at 6.0
7.0-9.0	8.0
9.0-11.0	10.0
11.0-13.0	12.0
13.0-15.0	14.0
15.0-17.0	16.0
17.0-19.0	18.0
19.0-20.0	19.0

N = NUMBER OF BLOWS TO DRIVE 2 SPOON 12 WITH 140 lb WT FALLING 30 PER BLOW

LOGGED BY Dale M. Gramza/Geologist - Greg H. Gili/Geologist SHEET 1A OF 1A











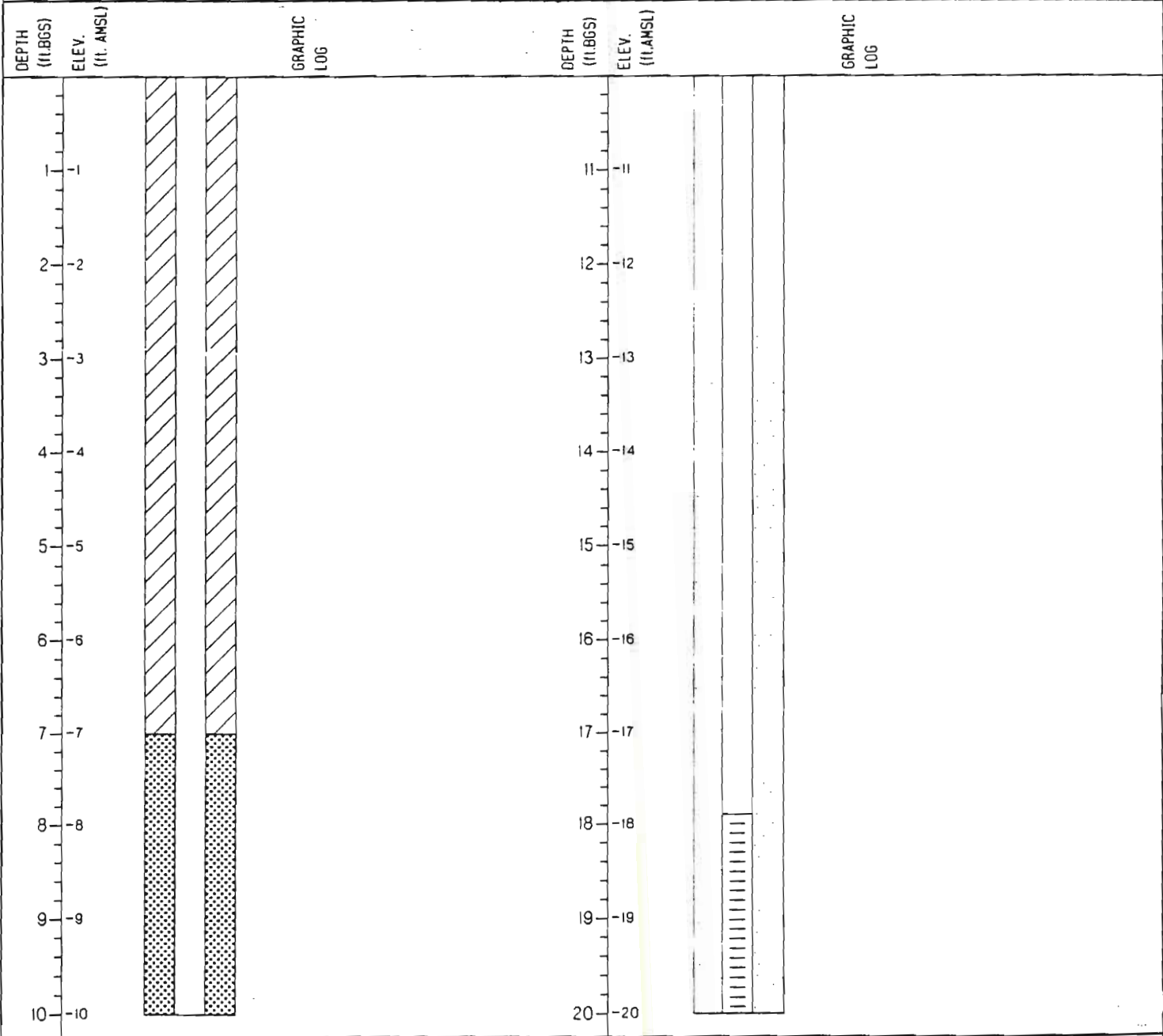
# WELL/BOREHOLE RW-1 CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 08/14/95 - 08/15/95  
 DRILLING METHOD: 10 1/4" HSA  
 LOGGED/CHECKED BY: JPH  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 7.0 feet	 4-INCH DIAMETER CASING 0 feet	 GRAPHIC LOG
 BENTONITE SLURRY SEAL 7.0 to 10.0 feet	 8-INCH DIAMETER RISER 0.0 to 17.9 Feet	
 MORIE #3 SAND PACK 10.0 to 30.0 feet	 8-INCH DIAMETER BOREHOLE 0 feet	
 8-INCH DIAM. CONTINUOUS SLOT (0.080") SCREEN 17.9 to 27.9 feet		











NOTES:

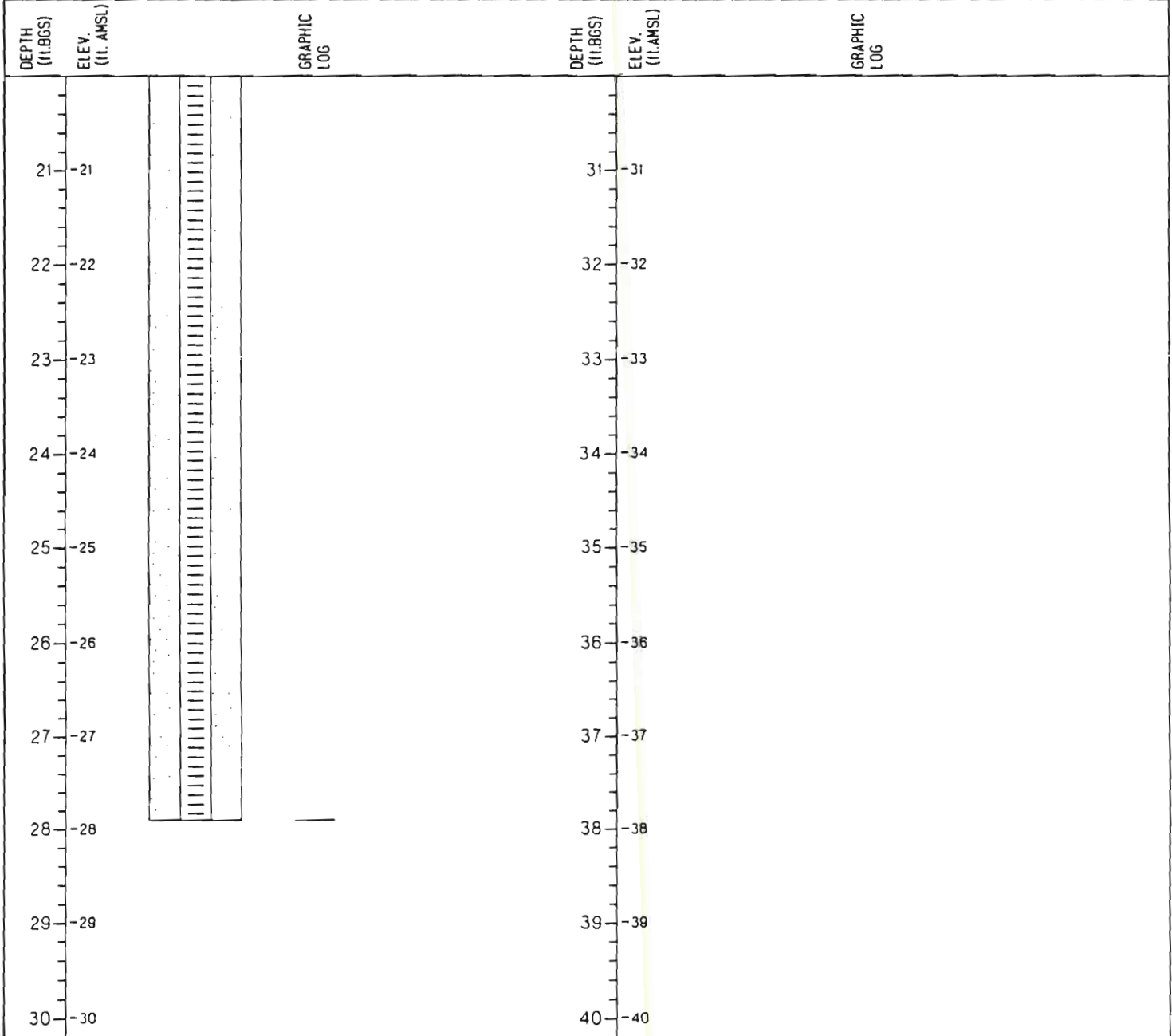
# WELL/BOREHOLE RW-1 CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 08/14/95 - 08/15/95  
 DRILLING METHOD: 10 1/4" HSA  
 LOGGED/CHECKED BY: JPH  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 7.0 feet   BENTONITE SLURRY SEAL 7.0 to 10.0 feet   MORIE #3 SAND PACK 10.0 to 30.0 feet   6-INCH DIAM. CONTINUOUS SLOT (0.060") SCREEN 17.9 to 27.9 feet	 4-INCH DIAMETER CASING 0 feet   8-INCH DIAMETER RISER 0.0 to 17.9 Feet   8-INCH DIAMETER BOREHOLE 0 feet	 GRAPHIC LOG
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







NOTES:

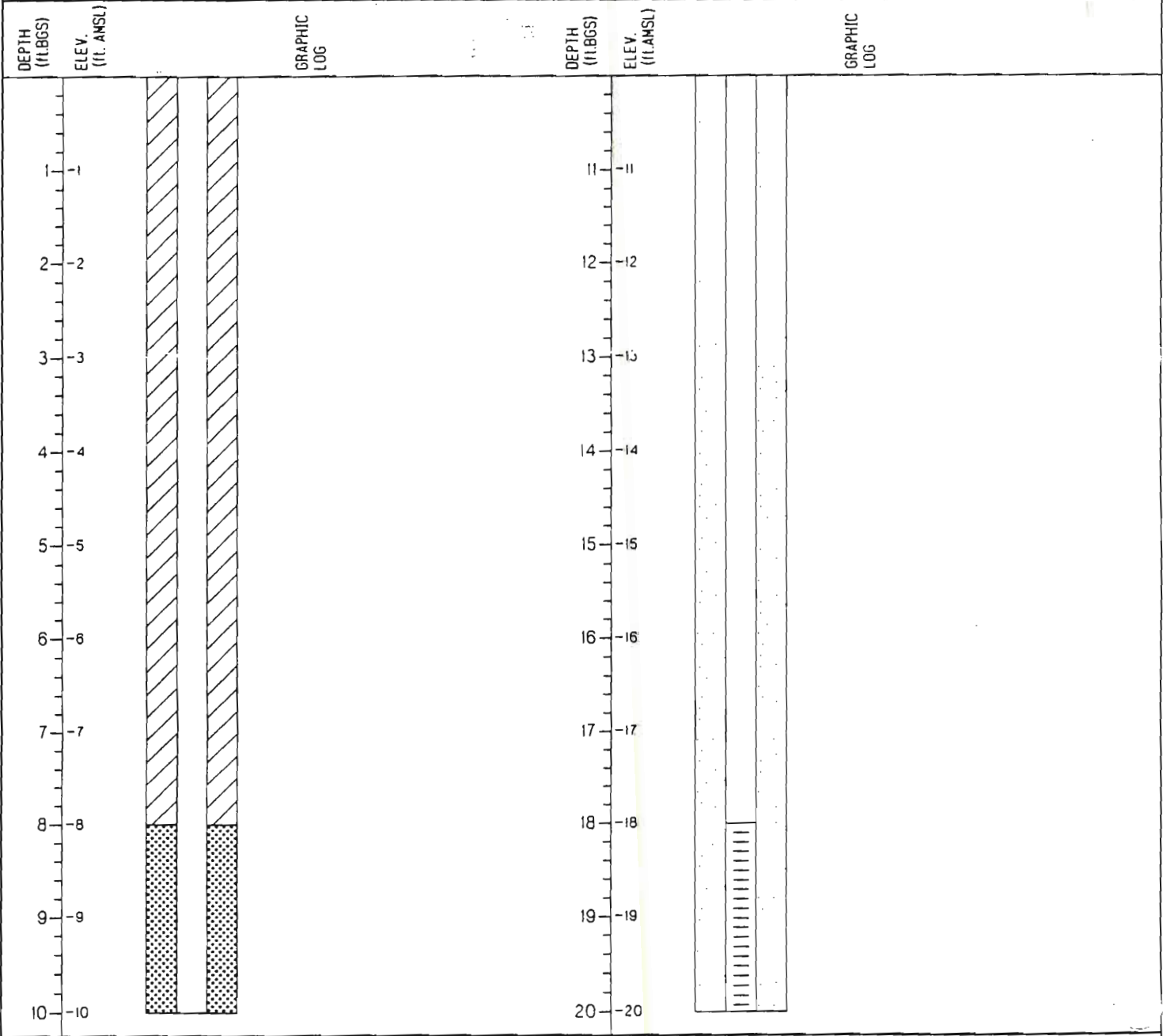
# WELL/BOREHOLE RW-2 CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 08/15/95  
 DRILLING METHOD: 8 1/4" HSA  
 LOGGED/CHECKED BY: JRB  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0.0 to 8.0 feet  BENTONITE SLURRY SEAL 8.0 to 10.0 feet  MORIE #0 SAND PACK 10.0 to 28.0 feet  4-INCH DIAMETER SLOTTED (0.010") SCREEN 18.0 to 28.0 feet	 4-INCH DIAMETER CASING 0.0 feet  4-INCH DIAMETER RISER 0.0 to 18.0 Feet  8-INCH DIAMETER BOREHOLE 0 feet	 GRAPHIC LOG
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NOTES:




# WELL/BOREHOLE RW-2 CONSTRUCTION DETAILS

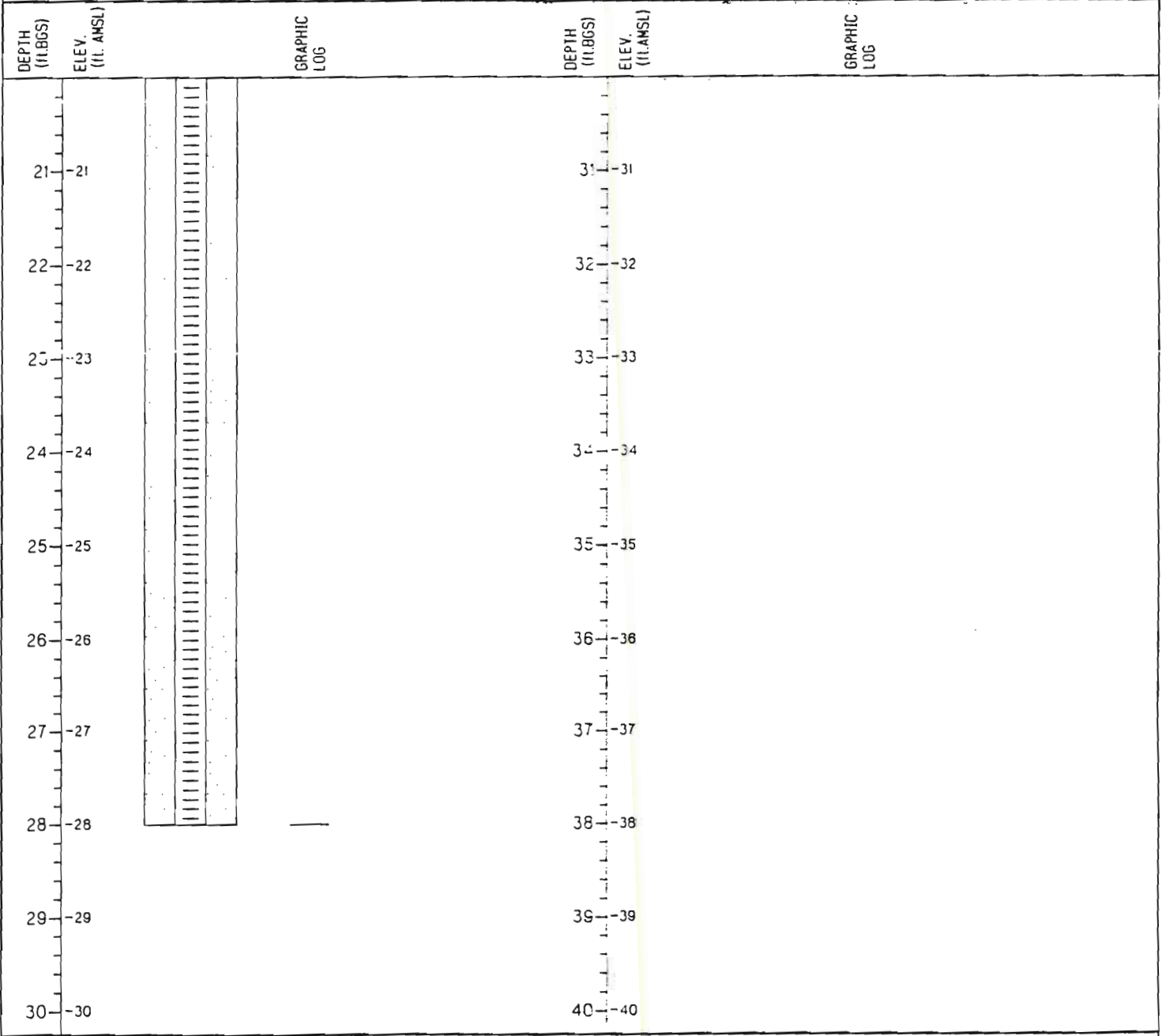
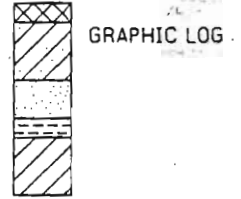
PROJECT: MR C CLEANERS  
 PROJECT NO.: 0266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 08/15/95  
 DRILLING METHOD: 8 1/4" HSA  
 LOGGED/CHECKED BY: JRB  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

-  BENTONITE-CEMENT SEAL  
0.0 to 8.0 feet
-  BENTONITE SLURRY SEAL  
8.0 to 10.0 feet
-  MORIE #0 SAND PACK  
10.0 to 28.0 feet
-  4-INCH DIAMETER SLOTTED (0.010") SCREEN  
18.0 to 28.0 feet

-  4-INCH DIAMETER CASING  
0.0 feet
-  4-INCH DIAMETER RISER  
0.0 to 18.0 Feet
-  8-INCH DIAMETER BOREHOLE  
0 feet



NOTES:

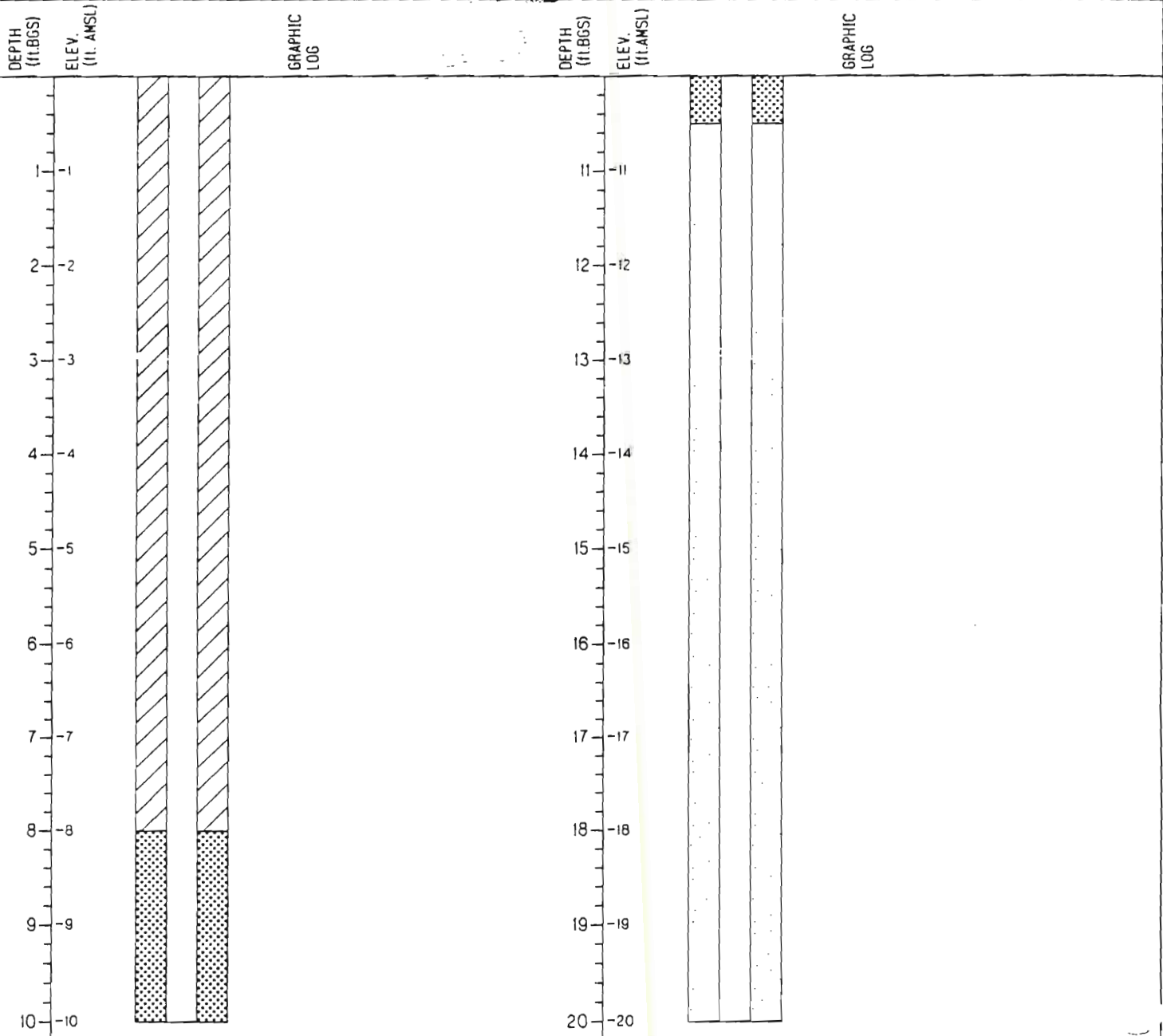
# WELL/BOREHOLE OW-B CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 07/15/95  
 DRILLING METHOD: 4 1/4" HSA  
 LOGGED/CHECKED BY: JMA  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

<p> BENTONITE-CEMENT SEAL 0 to 8.0 feet</p> <p> BENTONITE SLURRY SEAL 8.0 to 10.5 feet</p> <p> MORIE #0 SAND PACK 10.5 to 27.5 feet</p> <p> 2-INCH DIAMETER SLOTTED (0.010") SCREEN 8.0 to 10.5 feet</p>	<p> 4-INCH DIAMETER CASING 0 feet</p> <p> 2-INCH DIAMETER RISER 0 to 32.0 Feet</p> <p> 8-INCH DIAMETER BOREHOLE 0 feet</p> <p> 4-INCH DIAMETER BOREHOLE 0 feet</p>	<p> GRAPHIC LOG</p>
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NOTES:

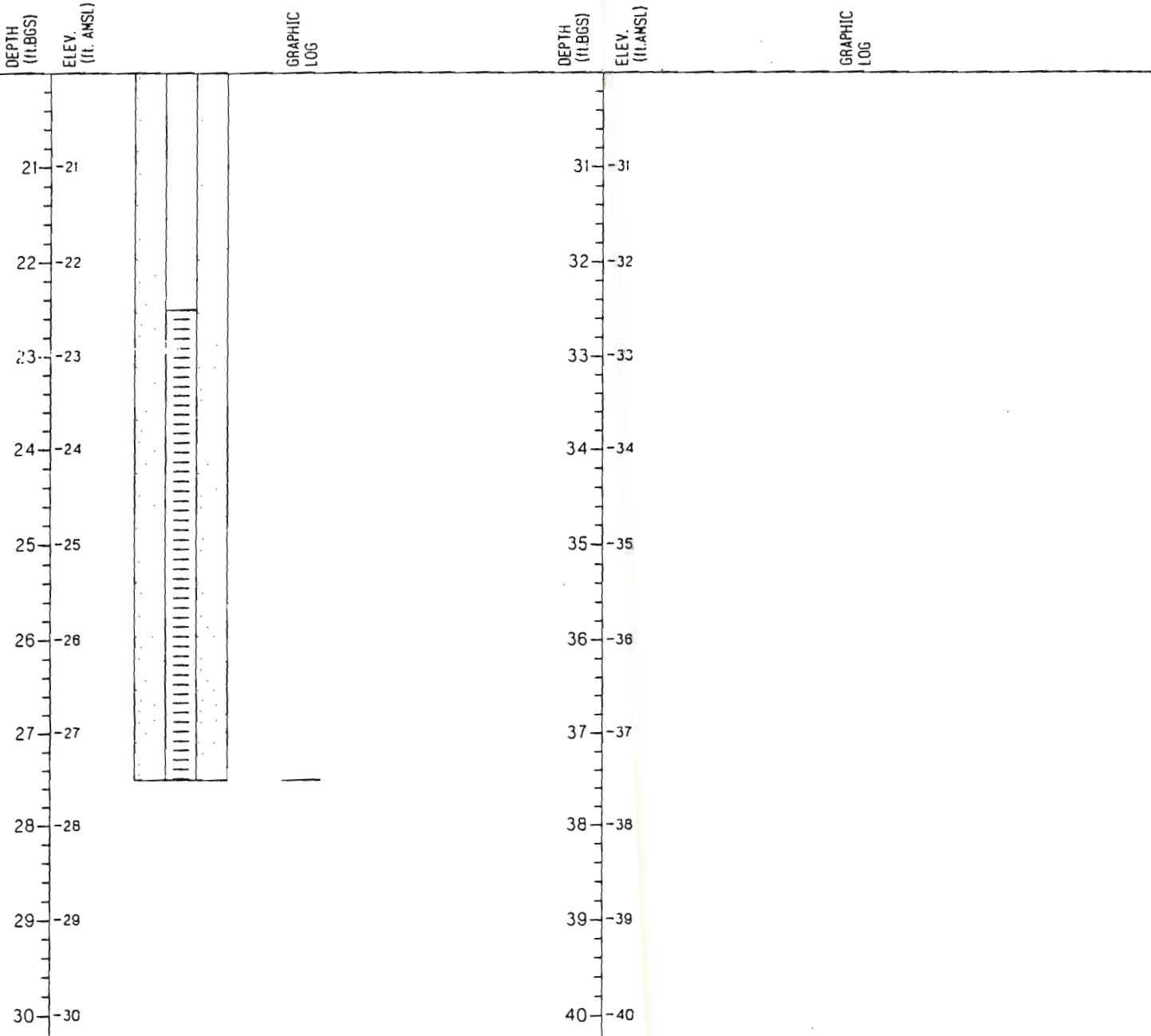
# WELL/BOREHOLE OW-B CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS  
 PROJECT NO.: 0266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC  
 DRILLING DATES: 07/15/95  
 DRILLING METHOD: 4 1/4" HSA  
 LOGGED/CHECKED BY: JMA  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 8.0 feet   BENTONITE SLURRY SEAL 8.0 to 10.5 feet   MORIE #6 SAND PACK 10.5 to 27.5 feet   2-INCH DIAMETER SLOTTED (0.010") SCREEN 8.0 to 10.5 feet	 4-INCH DIAMETER CASING 0 feet   2-INCH DIAMETER RISER 0 to 32.0 Feet   8-INCH DIAMETER BOREHOLE 0 feet   4-INCH DIAMETER BOREHOLE 0 feet	 GRAPHIC LOG
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NOTES:

# BOREHOLE LOG OW-C

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: 0266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 09/08/95  
 DRILLING METHOD: 4 1/4" HSA  
 LOGGED/CHECKED BY: JMA  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)  
 SS3 Split Spoon (3in.ID)  
 ST Shelby Tube (2.8in.ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

- Sampler Refusal  
 JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers  
 SSLA Sample submitted for laboratory analysis

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft. BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	SOIL DATA					ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 6"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% ROD.
1-1		Logging begins at 10.0'											
2-2		For 0.0-10.0' description see MPI-6S											
3-3													
4-4													
5-5													
6-6													
7-7													
8-8													
9-9													
10-10													
11-11		Grey wet SILT and SAND w/ fine and v. fine size, laminated		SS	3								JHS=0.0 ppm
12-12		STRATIFIED Grey wet SAND w/ trace silt, mostly fine sand, little medium and v. fine, stratified	o o o o		3	1.4	7						JHS=11.5 ppm
13-13		Wet SAND and GRAVEL, subrounded and subangular, f-c sand	o o o o	SS	11								
14-14		Brown wet GRAVELLY f-c SAND, some f gravel	o o o o		10	1.2	21						JHS=198 ppm
15-15		Wet m-c SAND & GRAVEL, subround & subang.	o o o o	SS	8								
16-16		Wet GRAVELLY SAND, subrounded & subang., f-c sand	o o o o		7	1.2	16						JHS=340 ppm
17-17		Brown wet f-m SAND, little gravel & c sand	o o o o		9								
18-18		Brown wet SAND & GRAVEL, f-c sand, subrounded & subang., compact	o o o o	SS	11	1.2	24						JHS=230 ppm
19-19		Grey wet SAND & GRAVEL, f-c sand, subround gravel	o o o o		12								
20-20		Grey wet SANDY SILT, v. fine sand, liquifies when disturbed	o o o o	SS	10	0.9	15						
		Grey wet SILTY f SAND, little silt	o o o o		5								
			o o o o		3								

# BOREHOLE LOG OW-C

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION  
 PROJECT NO.: Q266-31-4  
 LOCATION: EAST AURORA, NEW YORK  
 SURVEY COORDINATES:  
 SURVEY DATUM:

CLIENT: NYSDEC  
 DRILLING DATES: 09/08/95  
 DRILLING METHOD: 4 1/4" HSA  
 LOGGED/CHECKED BY: JMA  
 SURFACE ELEVATION:

## SYMBOLS AND DEFINITIONS

SS Split Spoon (2in. ID)  
 SS3 Split Spoon (3in. ID)  
 ST Shelby Tube (2.8in. ID)  
 WR Weight of Rods  
 WH Weight of Hammer  
 NR No Recovery

- Sampler Refusal  
 JHS HNU reading in jar headspace  
 GAS Combustible Gas reading in augers  
 SSLSA Sample submitted for laboratory analysis

x---x Penetration Resistance ('N' Blows/1.0 ft.)  
 o---o Moisture Content ('M' %)

DEPTH (ft. BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	GRAPHIC LOG	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
				SAMPLE NO. / RUN NO.	BLOWS / 6"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% ROD.		
21	-21	Brown wet SILTY SAND, vf-m sand, little silt, trace gravel	SS	3 2 3	2.0	5						JHS=210 ppm	
22	-22	Gray wet SILTY SAND, vf-f sand, tr-little silt	SS	1								JHS=210 ppm	
23	-23	Gray wet SILTY SAND, vf sand, tr f, little silt	SS	1 2 2	1.3	3						JHS=190 ppm	
24	-24	Gray wet SILTY SAND, vf-f sand, tr-little silt	SS	4 4 5 6	2.0	9						JHS=120 ppm	
25	-25	Gray wet SILTY SAND, vf sand, tr fine, little-some silt, trace laminations	SS	4 5 6	2.0	9						JHS=120 ppm	
26	-26	Gray wet SILTY SAND, f sand, little vf, little silt, slightly laminated	SS	4 5 7 7	2.0	12						JHS=120 ppm	
27	-27	LAMINATED Gray wet SILT and SAND, vf sand, liquid when disturbed	SS	4 5 7 7	2.0	12						JHS=120 ppm	
28	-28	Gray wet SILTY SAND, tr-little sand, mostly f, little med and vf, stratified											
29	-29	Gray wet SILTY SAND, m-c, tr f gravel											
30	-30	Gray wet SILTY SAND, some silt, mostly vf, laminated											
31	-31	Sampled to 28.0' bgs. Natural sands filled borehole to 28.0' while installing well. Well bottom at 28.0'. Boring completed at 29.0'. Installed observation well.											
32	-32												
33	-33												
34	-34												
35	-35												
36	-36												
37	-37												
38	-38												
39	-39												
40	-40												