
**MR. C'S DRY CLEANERS SITE
LIMITED SITE DATA DOCUMENT – REMEDIAL DESIGN**

SITE NO. 9-15-157

**NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION**

DIVISION OF ENVIRONMENTAL REMEDIATION

OCTOBER 2000



MALCOLM PIRNIE, INC.

**P. O. Box 1938
Buffalo, New York 14219**

LIMITED SITE DATA

MR. C'S DRY CLEANERS

VILLAGE OF EAST AURORA, ERIE COUNTY, NEW YORK

SITE No. 9-15-157

These documents that follow are **NOT** part of the Contract Documents for the remedial work at the Mr. C's Dry Cleaners Site. The Department neither represents that the Site conditions will be the same as in the attached documents nor considers the attached documents as being comprehensive and an actual description of the site conditions. The Contractor shall be responsible for performing the remediation work based on the existing conditions at the Site.

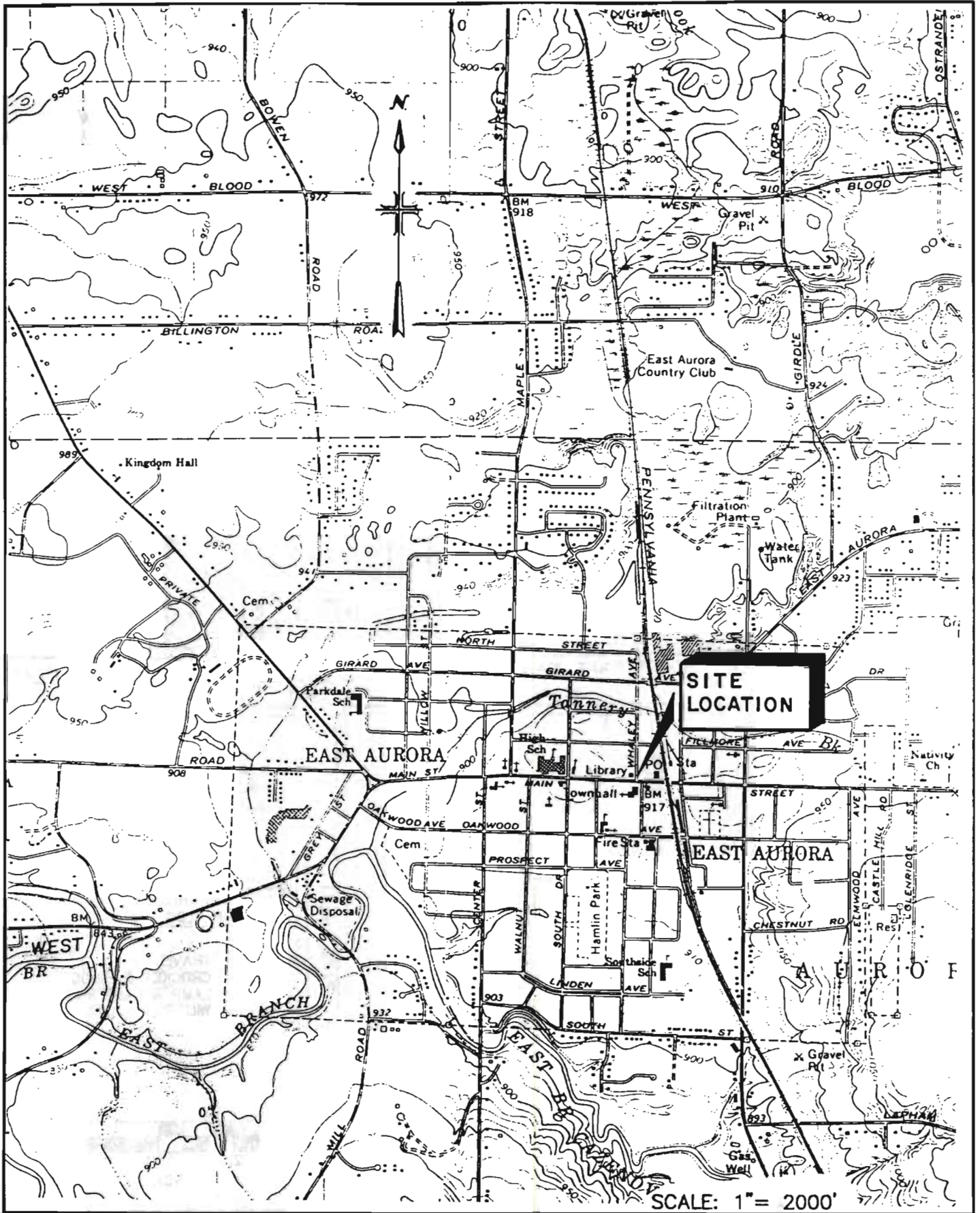
OCTOBER 2000

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SCALE: 1" = 2000'

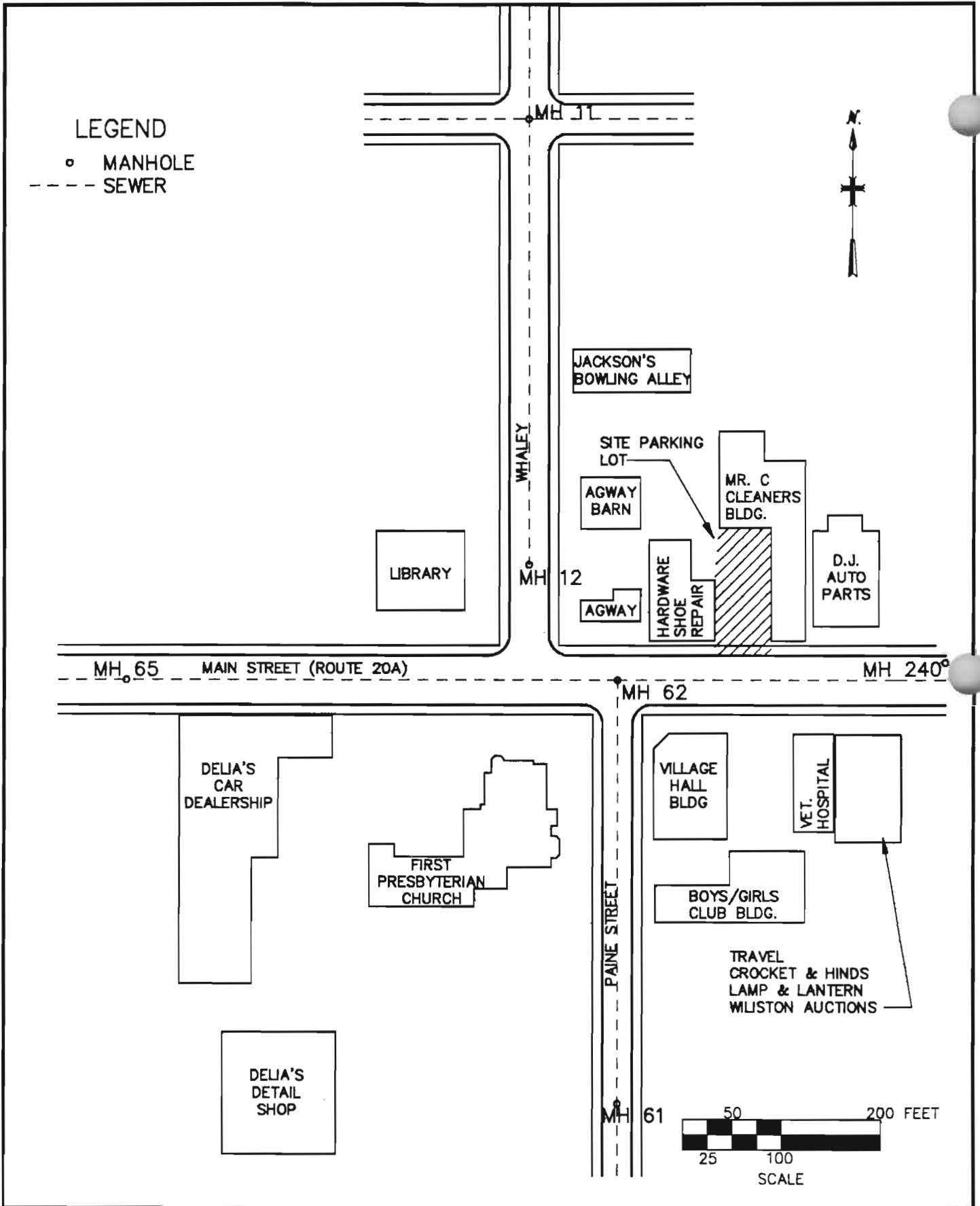
**MALCOLM
PIRNIE**

DEC-31-MAP

MR. C DRY CLEANER
 NYSDEC STANDBY CONTRACT
 SITE LOCATION MAP

NYSDEC

JUNE 1994



**MALCOLM
PIRNIE**

FIG_3-2

MR C CLEANERS
REMEDIAL INVESTIGATION REPORT
SITE VICINITY MAP

TABLE 2-1

MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT

RESIDENTIAL WELL SURVEY SUMMARY

	House Number	Well On Property	Comments					
			Depth	Diam.	Method of Water Removal	Approx. Location	Use	Approx. Date Installed
Fillmore Avenue	517	Yes	17'	1.5"	pump	behind garage	none	1988
	518	Yes	11'	1.5"	pump	basement	car washing watering lawn kids playwater	June 1990
	524	Yes	unknown	approx. 2"	pump	behind garage	garden	unknown
	531	Yes	15'-18'	3"	jet pump	30' behind house	garden watering lawn car washing	
	542	No						
	498	No						
Whaley Avenue	31	No						
	35	No						

TABLE 3-1
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
HISTORIC SAMPLING EVENTS

Matrix	Sampling Date	Sampling Location	Source of Data
Indoor Air	12/02/91	Church Basement	EA-FPC
	12/06/91	Church Basement	EA-FPC
	12/19/91	Church Basement	NYSDEC/AES
	01/14/92	Church Basement	NYSDEC/AES
	02/28/92	Church Basement	NYSDEC/AES
Sewer Flow	01/14/92	MH61, MH62, MH65	NYSDEC/AES
	02/21/92	MH56, MH61, MH62, MH64, MH65	NYSDEC/AES
	03/27/92	MH11, MH61, MH62, MH64, MH65	NYSDEC/AES
Groundwater	01/28/92	Agway Wells	NYSDEC/AES
	05/21/92	ESI Wells/Agway Wells/Cumberland Farms	Huntingdon
	11/09/92	Agway Wells & Airstripper	Marcor
	12/29/92	Agway Wells	Marcor
	01/19/93	ESI Wells	NYSDEC/Recra
	10/01/93	Agway Wells	Matrix
<p>Notes:</p> <p>EA-FPC = East Aurora - First Presbyterian Church</p> <p>ESI = Empire Soils Investigation</p> <p>NYSDEC/AES = NYSDEC/Advanced Environmental Services</p> <p>Marcor = Marcor of New York, Inc.</p> <p>Huntingdon = Huntingdon Analytical Services</p> <p>Matrix = Matrix Environmental Technologies</p>			

TABLE 3-2

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

PREVIOUS INDOOR AIR SAMPLE RESULTS⁽¹⁾

Sampling Date	Sampling Location	EPA 8240 Parameter	Concentration	
			$\mu\text{g}/\text{m}^3$	ppm
01/14/92	Closet Area A	Methylene Chloride Tetrachloroethene	38 130	.019
	Closet Area B	Tetrachloroethene Trans 1,2 Dichloroethene Trichloroethene 1,2 Dichloropropane Toluene	1900 140 99 28 21	.28
02/28/92	Room 114	Tetrachloroethene Benzene Toluene Ethylbenzene	110 280 280 7.5	.016
	Hallway (adj. to Rms 112, 113, 114)	Tetrachloroethene Benzene Toluene	67 120 130	.0099
	Old Section	Tetrachloroethene Benzene Toluene	26 13 16	.0038
12/19/91	Closet	Tetrachloroethene	400	.059
	Room 113	Tetrachloroethene	57	.0084

Note (1): All samples collected from basement of the East Aurora First Presbyterian Church.

TABLE 3-3

MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
SUMMARY OF HISTORIC SEWER SAMPLING RESULTS

Compound (ug/l) ⁽²⁾	Date of Sampling	MH 11	MH 56	MH 61A	MH 61B	MH 61	MH 62A	MH 62B	MH 62E	MH 62W	MH 64	MH 65A	MH 65B	MH 65
Methylene Chloride	1/14/92	-	-	539	110	-	ND	522	-	-	-	ND	11.9	-
	2/21/92	-	23.2	-	-	18.7	-	-	ND	111	208	-	-	ND
	3/27/92	ND	-	-	-	ND	-	-	ND	5.46	75	-	-	ND
Trans 1,2 Dichloroethene	1/14/92	-	-	12.7	499	-	ND	12.6	-	-	-	ND	ND	-
	2/21/92	-	ND	-	-	ND	-	-	ND	ND	ND	-	-	ND
	3/27/92	ND	-	-	-	ND	-	-	ND	ND	ND	-	-	ND
Chloroform	1/14/92	-	-	ND	ND	-	ND	ND	-	-	-	16.8	11.9	-
	2/21/92	-	4.74	-	-	5.58	-	-	6.15	5.37	4.91	-	-	6.96
	3/27/92	4.53	-	-	-	5.00	-	-	3.07	8.52	4.18	-	-	15.5
1,1,1 Trichloroethane	1/14/92	-	-	ND	ND	-	5.5	ND	-	-	-	ND	ND	-
	2/21/92	-	7.78	-	-	5.18	-	-	4.04	8.01	6.82	-	-	3.53
	3/27/92	ND	-	-	-	ND	-	-	ND	6.53	ND	-	-	ND
Trichloroethene	1/14/92	-	-	5.37	142	-	ND	ND	-	-	-	ND	ND	-
	2/21/92	-	1.34	-	-	1.19	-	-	3.43	ND	ND	-	-	ND
	3/27/92	ND	-	-	-	ND	-	-	ND	ND	ND	-	-	ND
Vinyl Chloride	1/14/92	-	-	ND	38.6	-	ND	ND	-	-	-	ND	ND	-
	2/21/92	-	ND	-	-	ND	-	-	ND	ND	ND	-	-	ND
	3/27/92	ND	-	-	-	ND	-	-	ND	ND	ND	-	-	ND
1,1,2,2 Tetrachloroethane	1/14/92	-	-	ND	61.8	-	ND	ND	-	-	-	ND	ND	-
	2/21/92	-	ND	-	-	ND	-	-	ND	ND	ND	-	-	ND
	3/27/92	ND	ND	-	-	ND	-	-	ND	ND	ND	-	-	ND
Tetrachloroethene	1/14/92	-	-	287	1,910	-	ND	106	-	-	-	ND	ND	-
	2/21/92	-	18.9	-	-	16.8	-	-	203	16.2	7.61	-	-	3.11
	3/27/92	ND	-	-	-	22.4	-	-	21.6	16.0	ND	-	-	ND

TABLE 3-3

MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
SUMMARY OF HISTORIC SEWER SAMPLING RESULTS

Compound (ug/l) ⁽²⁾	Date of Sampling	MH 11	MH 56	MH 61A	MH ⁽¹⁾ 61B	MH 61	MH ⁽¹⁾ 62A	MH ⁽¹⁾ 62B	MH 62E	MH 62W	MH 64	MH ⁽¹⁾ 65A	MH ⁽¹⁾ 65B	MH 65
1,1 Dichloroethene	1/14/92	-	-	ND	ND	-	ND	ND	-	-	-	ND	ND	-
	2/21/92	-	ND	-	-	1.59	-	-	1.48	ND	ND	-	-	ND
	3/27/92	ND	-	-	-	ND	-	-	ND	ND	ND	-	-	ND
Bromodichloromethane	1/14/92	-	-	ND	ND	-	ND	ND	-	-	-	ND	ND	-
	2/21/92	-	3.43	-	-	3.49	-	-	ND	5.95	8.16	-	-	3.07
	3/27/92	1.66	-	-	-	1.11	-	-	ND	1.03	1.10	-	-	7.63
Dibromochloromethane	1/14/92	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/21/92	-	1.20	-	-	1.30	-	-	ND	ND	ND	-	-	1.59
	3/27/92	ND	-	-	-	1.48	-	-	1.16	1.38	ND	-	-	2.74
1,2 Dichloropropane	1/14/92	-	-	ND	ND	-	ND	ND	-	-	-	ND	ND	-
	2/21/92	-	119	-	-	106	-	-	27.8	381	97.2	-	-	ND
	3/27/92	ND	-	-	-	ND	-	-	ND	ND	ND	-	-	ND
M/P Xylene	1/14/92	-	-	ND	ND	-	ND	9.02	-	-	-	ND	ND	-
	2/21/92	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/27/92	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	1/14/92	-	-	9.24	ND	-	66.1	ND	-	-	-	ND	ND	-
	2/21/92	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/27/92	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	1/14/92	-	-	ND	ND	-	ND	ND	-	-	-	ND	ND	-
	2/21/92	-	-	-	-	-	-	-	-	-	-	-	-	-
	3/27/92	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:
 (1) Sample designated "A" collected prior to flushing the sewer line.
 Sample designated "B" collected after flushing the sewer line.
 (2) 1/14/92 samples analyzed by EPA SW-846 Method 8240.
 2/21/92 and 3/27/92 samples analyzed by EPA Method 601.

- Not sampled, or flushing procedure not used.
 ND Analyzed for but Not Detected.

TABLE 3-4

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

RESULTS OF HISTORIC GROUNDWATER SAMPLING AT AGWAY

Compound (ug/l) Date of Sampling	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW 8	MW 9	MW 10	Infl. (1)
Vinyl Chloride											
01/28/92	-				-	-	-	-	-	-	-
05/21/92					810	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	244
12/29/92					3,300	-	-	-	-	-	310
10/01/93	ND	-	-	ND	1,350	ND	ND	ND	ND		-
1,1, Dichloroethane											
01/28/92	-				-	-	-	-	-	-	-
05/21/92					-	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	-
12/29/92					-	-	-	-	-	-	-
10/01/93	ND	-	-	ND	ND	ND	ND	ND	ND	ND	-
1,1,1 Trichloroethane											
01/28/92	-				-	-	-	-	-	-	-
05/21/92					-	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	5
12/29/92	8	6		5							28
10/01/93	6	-	-	ND	ND	ND	6	ND	ND	ND	-
1,1, Dichloroethene											
01/28/92	-				-	-	-	-	-	-	-
05/21/92		2	3	16	45	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	-
12/29/92	5	1									
10/01/93	ND	-	-	ND	ND	ND	ND	ND	ND	ND	-
1,2 Dichloroethene (T)											
01/28/92	-				-	-	-	-	-	-	-
05/21/92					6,700	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	1,870
12/29/92					12,800	-	-	-	-	-	2,010
10/01/93	4.5	-	-	6	191	ND	1	15	14	14	-
Trichloroethene											
01/28/92					-	-	-	-	-	-	-
05/21/92	150	5		34	1,100	-	-	-	-	-	-
11/09/92					-	-	-	-	-	-	153
12/29/92	68	5		32	182	-	-	-	-	-	284
10/01/93	54	-	-	ND	ND	0.6	5	23	ND	ND	-

TABLE 3-4

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

RESULTS OF HISTORIC GROUNDWATER SAMPLING AT AGWAY

Compound (ug/l) Date of Sampling	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	MW 8	MW 9	MW 10	InfL (1)
Tetrachloroethene											
01/28/92	-	348	-	-	-	-	-	-	-	-	-
05/21/92	3200	270	2	4400	450	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	303
12/29/92	5500	245	-	86	-	-	-	-	-	-	285
10/01/93	1360	-	-	ND	ND	23	711	980	13	193	-
Acetone											
01/28/92	-	-	-	-	-	-	-	-	-	-	-
05/21/92	-	-	-	-	76	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	-
12/29/92	-	-	-	-	-	-	-	-	-	-	-
10/01/93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	-
Benzene											
01/28/92	-	-	278	-	-	-	-	-	-	-	-
05/21/92	-	4	290	34	700	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	340
12/29/92	-	-	380	-	-	-	-	-	-	-	442
10/01/93	0.5	-	-	48	752	55	0.8	0.9	369	27	-
Toluene											
01/28/92	-	-	194	-	-	-	-	-	-	-	-
05/21/92	-	-	160	-	81	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	31
12/29/92	-	-	110	-	-	-	-	-	-	-	33
10/01/93	1	-	-	6	88	9	ND	3	21	53	-
Ethylbenzene											
01/28/92	-	-	101	-	-	-	-	-	-	-	-
05/21/92	-	0.9	12	-	870	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	230
12/29/92	-	-	59	-	-	-	-	-	-	-	217
10/01/93	ND	-	-	ND	ND	ND	ND	ND	51	321	-
Xylenes (T)											
01/28/92	-	-	601	-	-	-	-	-	-	-	-
05/21/92	-	0.7	360	21	1,300	-	-	-	-	-	-
11/09/92	-	-	-	-	-	-	-	-	-	-	392
12/29/92	-	-	-	-	-	-	-	-	-	-	NR
10/01/93	0.5	-	-	62	1,213	424	-	-	78	1,070	-

Notes: - = Not sampled ND = Parameter analyzed for, but not detected. (1) Air stripper influent

TABLE 3-6

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SUMMARY OF SOIL GAS SURVEY RESULTS (APRIL 1992)

Sample Location	Concentration (ppb)		Notes
	Toluene	PCE	
1	ND	ND	Church
2	ND	ND	Church
3	ND	ND	Church
4	ND	ND	Church
5	1.9	104.3	Church
6	2.25	130.8	Church
7	ND	12.56	Church
8	ND	ND	Church
9	ND	ND	Church
10	ND	ND	Church
11	ND	ND	Church
12	ND	ND	Church
13	ND	ND	Church
14	ND	ND	Village Hall
15	ND	ND	Village Hall
16	ND	ND	Village Hall
17	ND	14.6	Shoe Repair
18	ND	ND	Church
19	ND	ND	Church
20	ND	ND	Church
21	ND	ND	Church
22	ND	ND	Church
23	ND	ND	Church
24	ND	ND	Church
25	ND	10.17	Church
26	ND	11.03	Library
27	9.15	1585	Mr. C Cleaner
28	ND	160.3	Mr. C Cleaner
29	ND	6.42	Mr. C Cleaner
30	ND	ND	Mr. C Cleaner
31	ND	ND	D.J.Auto Parts
32	ND	746.2	Mr. C Cleaner
33	ND	18.39	Mr. C Cleaner
34	ND	94.59	Village Hall
35	ND	3.91	Village Hall
36	10.25	565.4	Agway
37	ND	10.5	Church
38	ND	ND	Travel Agency

ND = Not Detected PCE = Tetrachloroethylene

TABLE 3-7

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

PREVIOUS SAMPLING RESULTS FROM ESI WELLS

Parameter (ug/l)	Date	Upgradient		Mr. C	Paine Street		Church
		ESI-1	ESI-2	ESI-3	ESI-4	ESI-5	ESI-6
1,2 Dichloroethene (T)	5/21/92	2J		2J	16	14	44J
	1/19/93	2J			5J		53
Trichloroethene	5/21/92	2J		6J	6J	28	14J
	1/19/93	3J		42J	3J	2J	17J
Tetrachloroethene	5/21/92	2J	1J	5600E	91	15	570
	1/19/93	0.9J		9800	44	13	580
1,1 Dichloroethene	5/21/92 1/19/93			2J			
Vinyl Chloride	5/21/92 1/19/93						6J
1,1 dichloroethane	5/21/92 1/19/93			2J			
Toluene	5/21/92 1/19/93			0.8J 63J	0.5J	0.3J	
Ethylbenzene	5/21/92 1/19/93			4J			
Total Xylenes	5/21/92 1/19/93			20			
Benzene	5/21/92 1/19/93			55J			
1,1,1 Trichloroethane	5/21/92 1/19/93				5J		

J = Estimated.
E = Exceeded calibration range of instrument
Blanks = Parameter not detected.

TABLE 4-1

**MR. C CLEANERS SUPERFUND SITE
PHASE I REMEDIAL INVESTIGATION REPORT**

SOIL GAS ANALYTES

Methylene Chloride
Vinyl Chloride

1,2-Dichloroethene
1,1-Dichloroethene

1,1,1-Trichloroethane
1,1,2-Trichloroethane

Trichloroethene
Tetrachloroethene

1,2 Dichloropropane
Chloroform

Benzene
Toluene
Xylenes (Total)
Ethylbenzene

TABLE 4-2
MR. C CLEANERS SUPERFUND SITE
PHASE I REMEDIAL INVESTIGATION REPORT
SOIL GAS SURVEY RESULTS

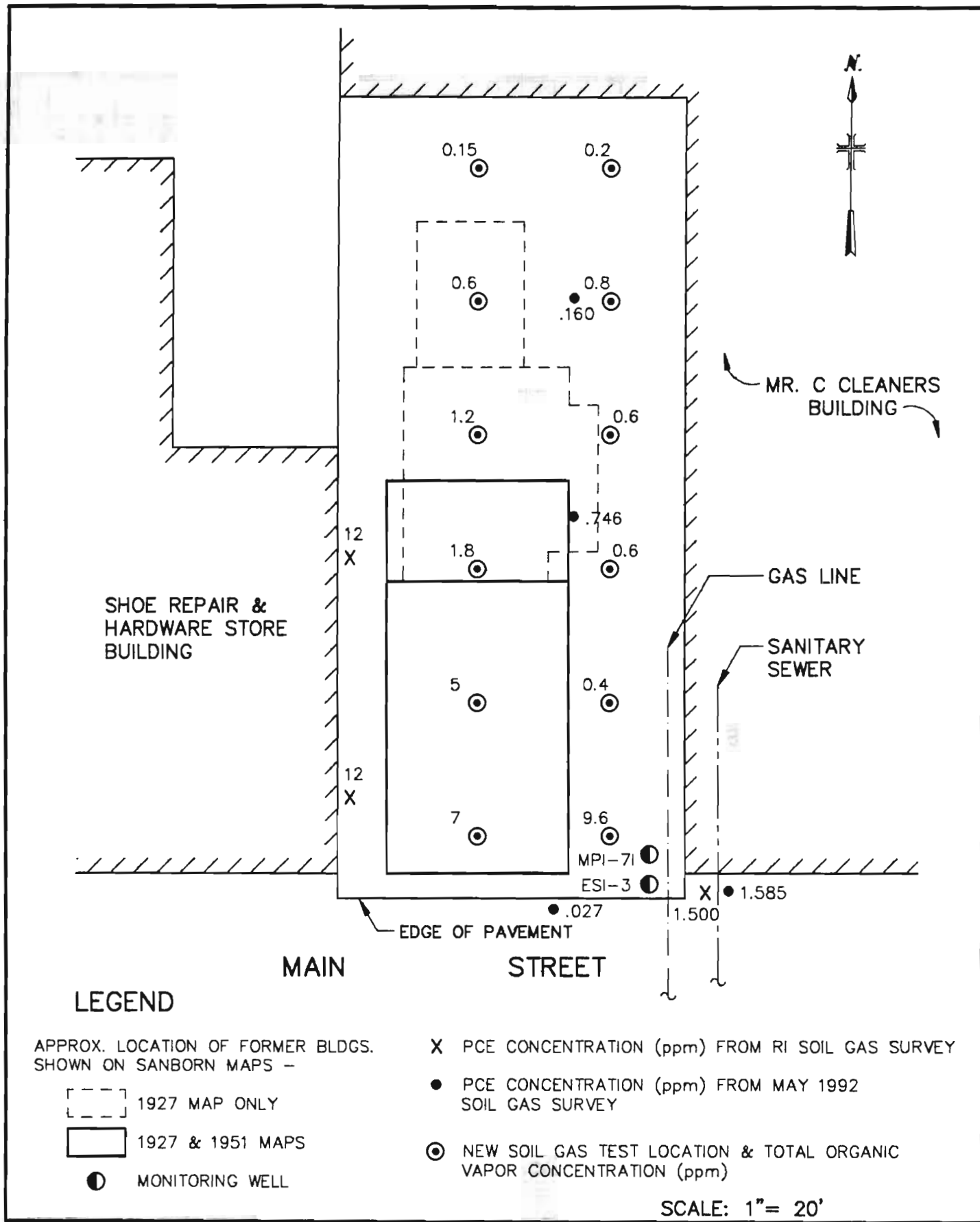
Location	Sample No.	Analyte Detected	mg/m ³	PPB
INITIAL SURVEY February 8-10, 1994				
East of Village Hall	39	PCE	9.8	1300
	40	PCE	5.2	700
		1,1,1 TCA	1.5	280
Church	41		ND	-
	42		ND	-
	43		ND	-
	44		ND	-
	45		ND	-
	46		ND	-
	47		ND	-
	48		ND	-
	49		ND	-
	50		ND	-
	52		ND	-
Library	53		ND	-
	54		ND	-
	55		ND	-
	56		ND	-
North and East of Agway Storage Barn	57	PCE	86	12,000
		TCE	3.1	520
	58	PCE	7.3	990
	59	PCE	0.90	110
	60	Toluene	3.1	750
		Ethylbenzene	3.0	630
		Total Xylenes	37	7,600
61	PCE	11	1,500	
62	PCE	23	3,100	
Mr. C Cleaners	63	PCE	91	12,000
	64	PCE	94	13,000
	65	PCE	27	3,600
	66	PCE	0.33	44
	67		ND	-
	68	PCE	0.44	59
	69	PCE	11	1,500

TABLE 4-2

**MR. C CLEANERS SUPERFUND SITE
PHASE I REMEDIAL INVESTIGATION REPORT**

SOIL GAS SURVEY RESULTS

Location	Sample No.	Analyte Detected	mg/m ³	PPB
Sewers	MH-12		ND	—
	MH-61	Total Xylenes	0.12	25
	MH-62	PCE	0.20	28
		Ethylbenzene	0.30	63
		Total Xylenes	8.2	1,700
SUPPLEMENTAL SURVEY - March 7-8, 1994				
Center of Whaley Ave.	71	PCE	11	1,500
	72	PCE	13	1,800
	86	PCE	0.16	22
	87	PCE	3.4	460
	90	PCE	0.14	19
		Toluene	0.09	22
	91	PCE	0.18	24
	78		ND	—
	MH-11		ND	—
East of Whaley Ave.	70	PCE	92	12,000
		TCE	0.6	100
		1,1,1 TCA	1.8	300
	79		ND	—
	80		ND	—
	81		ND	—
	82		ND	—
	83		ND	—
West of Whaley Ave.	73		ND	—
	74	PCE	0.19	26
	75	PCE	1.0	130
	76		ND	—
	77		ND	—
	78		ND	—
	84		ND	—
	85		ND	—
Legend: PPB = Parts Per Billion PCE = Tetrachloroethene 1,1,1 TCA = 1,1,1 Trichloroethane TCE = Trichloroethene				



**TABLE 4-3
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
WELL CONSTRUCTION SUMMARY**

Well No.	Ground Elev.	PVC Riser Elev.	Borehole Diam./ Well Diam. (in.)	DEPTHS (ft below grade)						Type of Sand Pack	Screen Slot Size	Installation Date
				Top of Seal	Top of Sand Pack	Top of Screen	Screen Bottom	Bottom of Sand Pack				
ESI-1	917.24	916.80	8.25/2	4.5	7.0	8.0	18.0	20.0	#0 Moric	0.010	5/92	
ESI-2	918.05	917.79	8.25/2	6.0	8.0	9.0	19.0	20.0	#0 Moric	0.010	5/92	
ESI-3	916.41	915.85	8.25/2	4.1	6.0	7.0	17.0	18.0	#0 Moric	0.010	5/92	
ESI-4	913.56	913.25	8.25/2	2.0	4.0	5.0	15.0	16.0	#0 Moric	0.010	5/92	
ESI-5	912.90	912.64	8.25/2	2.0	4.0	5.0	15.0	16.0	#0 Moric	0.010	5/92	
ESI-6	914.92	914.48	8.25/2	3.8	6.0	7.0	17.0	18.0	#0 Moric	0.010	5/92	
MW-1	915.48	915.12	10.5/2	9.0	10.6	12.0	22.0	22.0	#2	.010	6/88	
MW-4	914.47	914.02	12.5/4	4.7	6.6	7.3	17.3	18.0	#2	-	1/89	
MW-5	914.84	914.50	10.5/2	-	-	10.0	15.0	-	-	-	5/84	
MW-6	915.05	914.68	8.0/2	3.0	-	5.0	14.5	15.0	-	0.020	9/93	
MW-7	916.34	915.96	8.0/2	3.0	-	5.0	14.5	15.0	-	0.020	9/93	
MW-8	915.97	915.62	8.0/2	3.0	-	5.0	14.5	15.0	-	0.020	9/93	
MW-9	916.99	916.64	8.0/2	3.0	-	5.0	14.5	15.0	-	0.020	9/93	
MW-10	914.85	914.54	8.0/2	2.0	-	4.0	13.5	14.0	-	0.020	9/93	
MPI-1S	915.38	915.08	12.0/2	5.3	7.2	9.0	19.0	19.5	#0 Moric	0.010	3/94	
MPI-1I	913.53	913.23	12.0/2	2.0	29.2	31.0	41.0	41.5	#00 Moric	0.006	3/94	
MPI-2S	917.34	917.10	12.0/2	3.8	6.0	8.0	18.0	18.5	#0 Moric	0.010	3/94	
MPI-3S	914.79	914.40	12.0/2	3.7	5.7	8.0	18.0	18.5	#0 Moric	0.010	3/94	
MPI-4S	915.12	914.82	12.0/2	6.8	8.8	11.0	21.0	21.5	#0 Moric	0.010	3/94	
MPI-4I	916.12	915.66	12.0/2	4.0	29.8	32.0	42.0	42.5	#00 Moric	0.006	3/94	
MPI-5S	916.78	916.45	12.0/2	3.9	5.9	8.0	18.0	18.4	#0 Moric	0.010	3/94	
MPI-5I	916.78	916.43	12.0/2	8.0	30.0	32.0	42.0	42.5	#00 Moric	0.006	3/94	
MPI-6S	915.35	915.03	12.0/2	7.9	10.0	12.3	22.3	23.0	#0 Moric	0.010	3/94	
MPI-7I	916.42	916.14	12.0/2	5.3	27.1	29.5	39.5	40.0	#00 Moric	0.006	3/94	
MPI-8S	915.01	914.64	12.0/2	4.0	6.0	8.0	18.0	18.5	#0 Moric	0.010	3/94	
MPI-9S	915.24	914.88	12.0/2	4.5	6.5	8.0	18.0	18.5	#0 Moric	0.010	3/94	

- = unknown

TABLE 4-3 (Continued)

MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT

WELL CONSTRUCTION SUMMARY

Well No.	Ground Elev.	PVC Riser Elev.	Borehole Diam./ Well Diam. (In.)	DEPTHS (ft below grade)					Type of Sand Pack	Screen Slot Size	Installation Date
				Top of Seal	Top of Sand Pack	Top of Screen	Screen Bottom	Bottom of Sand Pack			
MPI-10B	916.07	915.68	12.0/2	11.0	13.0	16.5	31.5	32.0	#00 Moric	.010	12/94
MPI-11B	913.58	913.15	12.0/2	8.5	13.0	15.0	30.0	30.5	#00 Moric	.010	12/94
MPI-12B	911.44	911.19	12.0/2	11.5	15.0	20.0	35.0	35.0	#00 Moric	.010	12/94
MPI-13B	913.49	913.25	12.0/2	10.0	15.0	17.0	32.0	32.0	#00 Moric	.010	1/95
MPI-14B	913.68	913.18	12.0/2	8.5	11.0	15.0	30.0	30.0	#00 Moric	.010	1/95
MPI-4D	915.97	915.70	6.0/2	60.0	63.9	66.0	76.0	76.0	#00 Moric	.010	1/95

**TABLE 4-4
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
SUMMARY OF FIELD MEASUREMENTS FOR RI WELL DEVELOPMENT⁽¹⁾**

Location	Date Developed	Volume of Water In Casing (gal.)	Total Volume of Water Purged (gal.)	Temp. (°C)	pH (units)	Specific Conductance umhos/cm (2)	Turbidity (NTU)	Recharge Rate	Appearance/ Odor
MPI-1S	3/21/94	1.6	105	9.6	7.32	2520	48	slow/moderate	slt sheen/clear/no odor
MPI-1I	3/25/94	5.7	110	11.8	7.29	1645	20	moderate	clear/no odor
MPI-2S	3/28/94	1.1	85	11.7	7.32	1491	11	fast	clear/solvent
MPI-3S	3/21/94	1.4	60	11.3	7.26	1720	29	slow/moderate	clear/no odor
MPI-4S	3/22/94	1.9	65	12.6	7.65	1572	31	slow	clear/no odor
MPI-4I	3/22/94	5.5	110	10.8	7.52	1576	30	moderate	clear/no odor
MPI-5S	3/15/94	1.2	95	8.3	7.34	1620	15	fast	clear/no odor
MPI-5I	3/21/94	5.0	70	10.3	7.26	1684	10	fast	clear/no odor
MPI-6S	3/15/94	2.0	85	9.6	7.07	1684	14	moderate	clear/no odor
MPI-7I	3/22/94	5.0	130	11.6	7.35	1813	16	moderate	clear/no odor
MPI-8S	3/25/94	1.5	65	4.7	7.42	1737	32	slow	clear/no odor
MPI-9S	3/25/94	1.5	80	5.4	7.43	1851	40	moderate	slt sheen/clear/no odor
ESI-1	3/15/94	1.1	90	9.6	7.32	1145	41	fast	clear/no odor
ESI-3	3/17/94	1.1	145	9.9	7.33	1912	49	fast	clear/no odor
ESI-4	3/16/94	1.1	55	8.7	7.21	7290	8	fast	clear/no odor
ESI-5	3/17/94	1.2	25	6.9	7.42	1182	8	slow	clear/no odor
ESI-6	3/18/94	1.1	185	10.7	7.14	1920	9	fast	clear/slt solvent
MW-4	3/16/94	6.1	48	7.0	6.95	2840	30	slow	sheen/clear/slt solvent
MW-5	3/16/94	0.8	7.0	6.0	6.82	2014	>100	moderate	sheen/cloudy/solvent

TABLE 4-4 (Continued)
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
SUMMARY OF FIELD MEASUREMENTS FOR PHASE II RI WELL DEVELOPMENT⁽¹⁾

Location	Date Developed	Volume of Water In Casing (gal.)	Total Volume of Water Purged (gal.)	Temp. (°C)	pH (units)	Specific Conductance umhos/cm (2)	Turbidity (NTU)	Recharge Rate	Appearance/ Odor
MPI-10B	1/20/95	3.46	50.0	10.9	7.74	1083	> 200	moderate	opaque, silty
MPI-11B	1/20/95	3.18	60.0	10.3	8.42	995	> 200	moderate	opaque, silty w/ fine sand
MPI-12B	1/23/95	4.43	70.0	9.6	9.1	2110	> 200	moderate	Viscous and silty
MPI-13B	1/19/95	3.66	80.0	10.4	7.49	1340	> 200	moderate	opaque
MPI-14B	1/23/95	3.39	60.0	7.4	8.31	960	184	moderate	silty
MPI-4D	1/20/95	10.70	67.5	9.7	7.61	305	> 200	(3)	very opaque

Notes:

- (1) All measurements are readings obtained from last volume of water.
- (2) Conductance corrected to 25°C.
- (3) Developed to dryness on 1/20/95 and 1/24/95 after 37.5 and 27.5 gallons were removed.

TABLE 4-5

MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT

PHYSICAL SOIL TESTING SUMMARY

Boring No. (ft.)	Depth (ft.)	Moisture Content %	Gravel %	Sand %	Silt %	Clay %	Classif. USCS	Liquid Limit %	Plasticity Index	Hydraulic Conductivity (cm/s)	Organic Content %
MPI-1D	66-68	26.1	0.0	1.1	59.2	39.7	CL	30	11	4.7×10^{-8}	0.7
MPI-4D	46-48	20.8	0.0	3.8	72.9	23.3	CL-ML	22	6	5.8×10^{-8}	0.6
MPI-5D	54-56	21.3	0.0	2.4	61.6	36.0	CL	29	10	4.4×10^{-8}	0.8
MPI-7D	58-60	27.6	0.0	1.2	58.9	39.9	CL	32	13	4.3×10^{-8}	1.0
MPI-3S	8-14		43.7	41.1	15.2*						
MPI-3S	14-18		3.0	35.6	60.5	0.9					
MPI-5D	8-14		29.3	54.0	16.7*						
MPI-5D	14-18		0.0	68.4	31.6	0.0					
MPI-1D	30-40		0.0	47.5	52.5	0.0					
MPI-5D	32-42		0.0	41.1	58.2	0.7					
MPI-6S	12-18		27.8	54.6	17.6*						
	18-24		0.0	71.3	24.6	4.1					
MPI-7D	12-20		48.2	38.9	12.9*						
	20-26		47.9	38.2	13.9*						
	26-28		0.0	85.9	14.1*						

* Presented as percent silt and clay combined.
Blank space indicates that testing was not required.

TABLE 4-6

MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT

IN SITU HYDRAULIC CONDUCTIVITY TEST RESULTS⁽¹⁾

Location	SHALLOW WELLS ⁽²⁾			INTERMEDIATE & DEEP WELLS ⁽³⁾			BASE OF OUTWASH ⁽⁴⁾		
	K (cm/s)	Location	K (cm/s)	Location	K (cm/s)	Location	K (cm/s)		
MPI-1S	4.1 E-3	ESI-1	2.0 E-2	MW-1	1.8 E-3	MPI-1I	4.9 E-4	MPI-10B	4.2 E-3
MPI-2S	1.1 E-2	ESI-3	9.0 E-2	MW-4	8.2 E-4	MPI-4I	1.5 E-4	MPI-11B	5.6 E-4
MPI-3S	6.0 E-3	ESI-4	4.8 E-2	MW-5	3.0 E-2	MPI-5I	3.9 E-4	MPI-12B	6.7 E-2
MPI-4S	1.1 E-3	ESI-5	4.9 E-3	MW-6	E-2*	MPI-7I	2.0 E-4	MPI-13B	1.2 E-2
MPI-5S	2.6 E-2	ESI-6	2.2 E-2	MW-7	4.4 E-2	MPI-4D**	8.8 E-6	MPI-14B	5.5 E-4
MPI-6S	8.5 E-3			MW-8	2.5 E-2				
MPI-8S	9.9 E-4			MW-9	1.8 E-3				
MPI-9S	8.5 E-3			MW-10	1.8 E-3				

Notes:

- (1) All tests analyzed by Method of Bouwer and Rice (1976).
- (2) Geometric mean of 21 shallow wells = 8.6 E-3 cm/s.
- (3) Geometric mean of 4 intermediate wells = 2.8 E-4 cm/s.
- (4) Geometric mean of 5 base of outwash wells = 4.0 E-3 cm/s.
- * Estimated minimum value. Well recovery too rapid to collect analyzable data.
- ** Deep well.

TABLE 4-7

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SUMMARY OF WATER LEVELS FROM TOP OF RISER

Well No.	Ref. Elev. (amsl)	4/5/94		4/13/94		4/20/94		4/27/94	
		Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)
MPI-1S	915.08	9.48	905.60	9.21	905.87	9.44	905.64	9.69	905.39
MPI-1I	913.23	7.63	905.60	7.34	905.89	7.56	905.67	7.82	905.41
MPI-2S ⁽⁶⁾	916.81	10.92	906.18	10.71	906.39	10.91	906.19	11.20	905.90
MPI-3S	914.40	9.63	904.77	9.31	905.09	9.58	904.82	9.79	904.61
MPI-4S	914.82	9.16	905.66	8.97	905.85	9.13	905.69	9.42	905.40
MPI-4I	915.66	10.15	905.51	9.96	905.70	10.10	905.56	10.38	905.28
MPI-4D	915.70	(3)							
MPI-5S	916.45	10.58	905.87	10.25	906.20	10.51	905.94	10.81	905.64
MPI-5I	916.43	10.62	905.81	10.34	906.09	10.52	905.91	10.86	905.57
MPI-6S	915.03	10.10	904.93	9.79	905.24	10.02	905.01	10.28	904.75
MPI-7I	916.14	9.95	906.19	9.71	906.43	9.91	906.23	10.21	905.93
MPI-8S	914.64	9.33	905.31	9.19	905.45	9.03	905.61	9.29	905.35
MPI-9S	914.88	9.31	905.57	9.01	905.87	9.25	905.63	9.54	905.34
MPI-10B ⁽³⁾	915.68								
MPI-11B ⁽³⁾	913.15								
MPI-12B ⁽³⁾	911.19								
MPI-13B ⁽³⁾	913.25								
MPI-14B ⁽³⁾	913.18								
MW-1	915.12	9.30	905.82	9.04	906.08	9.26	905.86	9.57	905.55
MW-4	914.02	8.26	905.76	7.99	906.03	8.16	905.86	8.50	905.52
MW-5	914.50	8.70	905.80	8.40	906.10	8.66	905.84	8.96	905.54
MW-6	914.68	8.66	906.02	8.44	906.24	8.66	906.02	8.99	905.69
MW-7	915.96	8.66	906.02	8.44	906.24	8.66	906.02	8.99	905.69
MW-8	915.62	9.95	906.01	9.64	906.32	(1)	-	10.22	905.74
MW-9	916.64	9.97	905.65	9.64	905.98	9.91	905.71	10.20	905.42
MW-10	914.54	8.57	905.97	8.29	906.25	8.54	906.00	8.84	905.70
ESI-1	916.80	10.53	906.27	10.31	906.49	10.45	906.35	10.79	906.01
ESI-2	917.79	11.62	906.17	11.36	906.43	11.58	906.21	11.90	905.89
ESI-3	915.85	9.68	906.20	9.43	906.45	9.64	906.24	9.95	905.93
ESI-4	913.25	7.49	905.76	7.23	906.02	7.50	905.75	7.75	905.50
ESI-5	912.64	7.47	905.17	7.23	905.41	7.51	905.13	7.63	905.01
ESI-6	914.48	9.79	904.69	9.47	905.01	9.75	904.73	9.95	904.53
Fillmore #531 ⁽⁴⁾	913.96								
Fillmore #524 ⁽⁴⁾	916.61								
Fillmore #517 ⁽⁴⁾	914.45								

Notes:

- (1) Not able to obtain water level measurements.
- (2) New riser elevation.
- (3) Installed 12/94 through 1/95.
- (4) Residential irrigation wells.
- (5) From ground surface.
- (6) Flushmount casing & top of riser were destroyed 1/4/95 and repaired prior to sampling. MPI-2S top of riser was re-surveyed after repair. The new elevation is presented for Ref. Elev.

TABLE 4-7 (Continued)

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SUMMARY OF WATER LEVELS FROM TOP OF RISER

Well No.	Ref. Elev. (amsl)	6/15/94		9/21/94		12/14/94		1/18 & 19/95 ⁽⁷⁾	
		Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)	Depth (ft.)	Elev. (ft.)
MPI-1S	915.08	10.25	904.83	10.80	904.28	NA	-	10.75 ⁽⁸⁾	904.33 ⁽⁸⁾
MPI-1I	913.23	8.37	904.86	8.92	904.31	NA	-	7.93	905.30
MPI-2S	916.81	11.83	905.27	12.36	904.74	NA	-	11.07(6)	905.74
MPI-3S	914.40	10.19	904.21	10.65	903.75	10.13	904.27	9.79	904.61
MPI-4S	914.82	10.00	904.82	10.35	904.47	9.92	904.90	9.51	905.31
MPI-4I	915.66	10.93	904.73	11.38	904.28	10.20	905.46	10.42	905.24
MPI-4D	915.70	(3)	-					9.82	905.88
MPI-5S	916.45	11.45	905.00	11.98	904.47	NA	-	10.99	905.46
MPI-5I	916.43	11.48	904.95	11.99	904.44	NA	-	11.13	905.30
MPI-6S	915.03	10.80	904.23	11.49	903.54	10.75	904.28	10.41	904.62
MPI-7I	916.14	10.88	905.26	11.34	904.80	NA	-	10.46	905.68
MPI-8S	914.64	9.88	904.76	10.41	904.23	NA	-	9.43	905.21
MPI-9S	914.88	(1)	-	10.65	904.23	10.05	904.83	9.70	905.18
MPI-10B ⁽³⁾	915.68							10.13	905.55
MPI-11B ⁽³⁾	913.15							8.59	904.56
MPI-12B ⁽³⁾	911.19							6.78	904.41
MPI-13B ⁽³⁾	913.25							8.63	904.62
MPI-14B ⁽³⁾	913.18							8.53	904.65
MW-1	915.12	10.15	904.97	10.80	904.32	NA	-	9.73	905.39
MW-4	914.02	9.09	904.93	9.72	904.30	NA	-	8.50	905.52
MW-5	914.50	9.57	904.93	10.17	904.33	NA	-	9.11	905.39
MW-6	914.68	9.62	905.06	10.20	904.48	NA	-	9.08	905.60
MW-7	915.96	9.62	905.06	11.45	904.51	10.83	905.13	10.40	905.56
MW-8	915.62	10.85	905.11	11.42	904.20	NA	-	10.31	905.31
MW-9	916.64	10.73	904.89	12.00	904.64	NA	-	11.31	905.33
MW-10	914.54	9.47	905.07	10.04	904.50	NA	-	9.08	905.46
ESI-1	916.80	11.51	905.29	11.81	904.99	10.49	906.31	11.02	905.78
ESI-2	917.79	12.60	905.19	12.91	904.88	NA	-	12.14	905.65
ESI-3	915.85	10.62	905.26	10.96	904.89	10.60	905.25	10.17	905.68
ESI-4	913.25	8.36	904.89	8.77	904.48	8.24	905.01	7.83	905.42
ESI-5	912.64	8.01 ⁽²⁾	904.69	8.42	904.22	7.90	904.74	7.75	904.89
ESI-6	914.48	10.33	904.15	10.97	903.51	10.90	903.58	9.93	904.55
Fillmore #531 ⁽⁴⁾	913.96					9.30(5)	903.78	9.34	904.62
Fillmore #524 ⁽⁴⁾	916.61					10.50(5)	904.07	12.20	904.41
Fillmore #517 ⁽⁴⁾	914.45					9.50(5)	904.08	9.86	904.59

Notes:

- (1) Not able to obtain water level measurements.
- (2) New riser elevation.
- (3) Installed 12/94 through 1/95.
- (4) Residential wellpoints.
- (5) From ground surface.
- (6) Flushmount casing & top of riser were destroyed 1/4/95 and repaired prior to sampling. MPI-2S top of riser was re-surveyed after repair.
- (7) Obtained by Lu Engineers.
- (8) Water level elevation at MPI-1S was not used to contour the groundwater surface due to a probable incorrect reading of the water level.

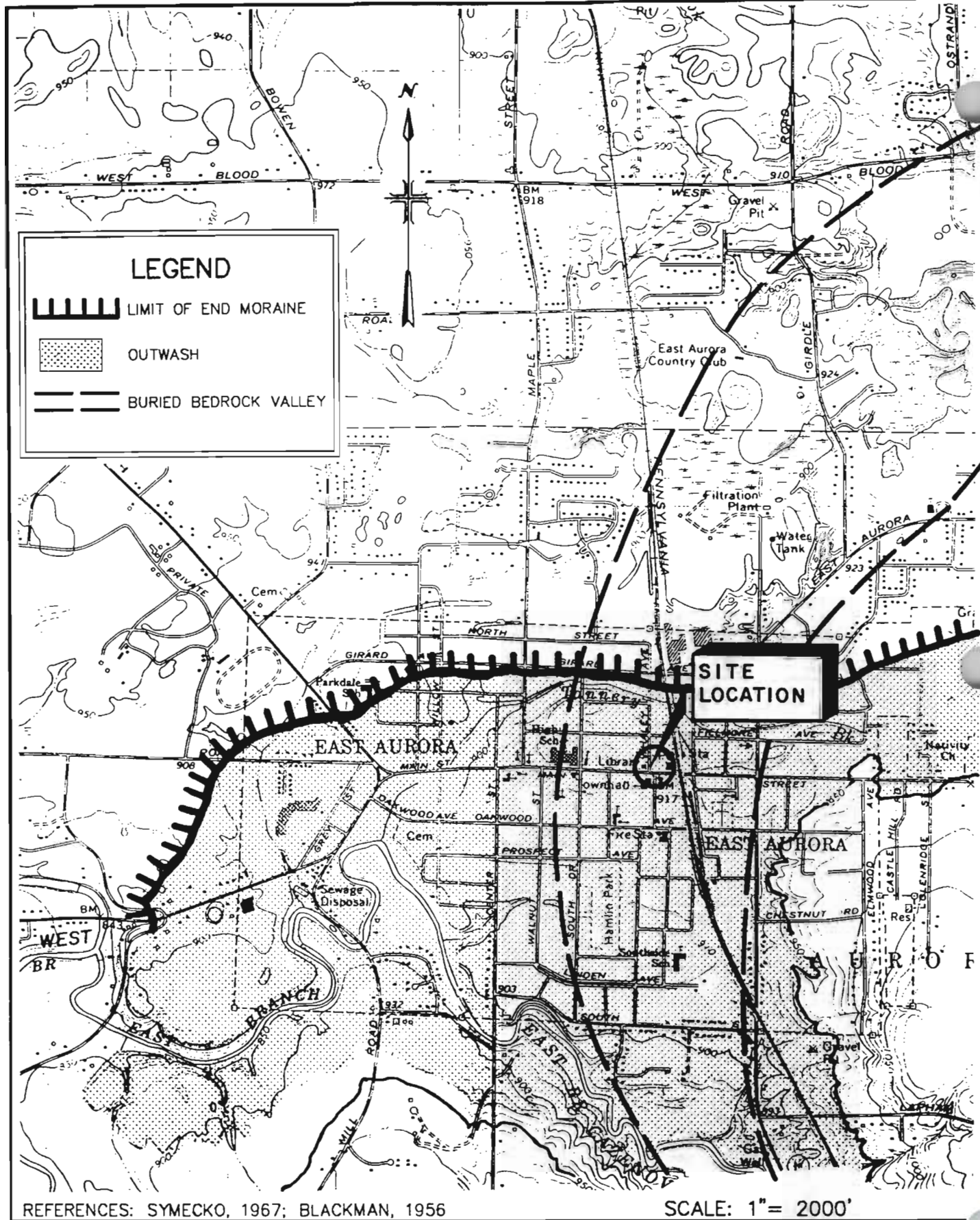


TABLE 4-8

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SUMMARY OF GEOLOGIC UNITS

Well Bore #	Ground Surface Elev.	Fill Mat'l Ft. Below Grade/ Top Elev.	Till Ft. Below Grade/ Top Elev.	Gravel Outwash Ft. Below Grade/ Top Elev.	Medium, Coarse Sand Outwash Ft. Below Grade/ Top Elev.	Fine, Very Fine Sand Outwash Ft. Below Grade/ Top Elev.	Lacustrine Deposit Ft. Below Grade/ Top Elev.	Stratified Till Deposits Ft. Below Grade/ Top Elev.
1D	913.95	-	0.5 - 6.0 913.45	6.0 - 11.0 907.95	-	11.0 - 27.0 902.95	27.0 - 40.5 886.95	40.5 - 90.0 873.45
1S	915.38	-	1.0 - 8.0 914.38	-	-	8.0 - 20.0 907.38		
2S	917.34	0 - 1.0 917.34	1.0 - 5.5 916.34	-	5.5 - 10.0 911.84	10.0 - 20.0 907.34		
3S	914.79	-	0.4 - 6.0 914.39	6.0 - 14.5 908.79	-	14.5 - 18 900.29		
4D	916.14	1.0 - 5.0 915.14	5.0 - 11.0 911.14	11.0 - 14.0 905.14	-	14.0 - 27.5 902.14	27.5 - 42.0 888.64	42.0 - 78.0 874.14
5D	916.49	0.0 - 2.0 916.49	2.0 - 8.0 914.49	8.0 - 12.5 908.49	12.5 - 14.0 903.99	14.0 - 28.0 902.49	28.0 - 42.5 888.49	42.5 - 64.0 873.99
6S	915.35	0.0 - 3.5 915.35	3.5 - 8.5 911.85	* 8.5 - 12.5 906.85	12.5 - 17.5 902.85	17.5 - 24.0 897.85		
7D	916.67	0.0 - 11.0 916.67	-	11.0 - 26.5 905.67	26.5 - 29.0 890.17	-	29.0 - 40.5 887.67	40.5 - 60.0 876.17
8S	915.01	0.0 - 4.0 915.01	4.0 - 9.6 911.01	* 9.6 - 14.0 905.41	14.0 - 18.0 901.01	18.0 - 20.0 897.01		
9S	915.24	0.0 - 4.0 915.24	4.0 - 8.0 911.24	8.0 - 12.4 907.24	12.4 - 20.0 902.84	-		

Notes:

- * Lacustrine Unit
- Indicates that the unit was not encountered.
- Blank space indicates that the boring was completed prior to the expected geologic unit.

TABLE 4-8 (Continued)

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SUMMARY OF GEOLOGIC UNITS

Well Bore #	Ground Surface Elev.	Fill Mat'l Ft. Below Grade/ Top Elev.	Till Ft. Below Grade/ Top Elev.	Gravel Outwash Ft. Below Grade/ Top Elev.	Medium, Coarse Sand Outwash Ft. Below Grade/ Top Elev.	Fine, Very Fine Sand Outwash Ft. Below Grade/ Top Elev.	Lacustrine Deposit Ft. Below Grade/ Top Elev.	Stratified Till Deposits Ft. Below Grade/ Top Elev.
MPI-10B	916.07	0 - 10.4 916.07	-	-	10.4 - 14.0 905.67	14.0 - 30.6 902.07	30.6 - ? 885.47	
MPI-11B	913.58	0 - 0.3 913.58	0.3 - 8.0 ⁽¹⁾ 913.28	8.0 - 22.0 905.58	-	22.0 - 26.3 891.58	26.3 - ? 887.28	
MPI-12B	911.44	0 - 4.0 911.44	4.0 - 8.0 907.44	8.0 - 34.0 903.44	-	34.0 - 36.0 877.44	36.0 - ? 875.44	
MPI-13B	913.49	0 - 2.8 913.49	2.8 - 8.0 910.69	16.0 - 18.0 897.49	8.0 - 10.0 905.49	-	28.0 - ? 885.49	
MPI-14B	913.68	0 - 6.0 913.68	*6.0 - 8.8 907.68	9.1 - 12.2 904.58	16.0 - 23.0 897.68	12.2 - 16.0 901.48	23.0 - ? 890.68	

Notes:

- (1) Includes layer of topsoil from 0.3 - 2.0' bgs.
- * Lacustrine Unit
- Indicates that the unit was not encountered.
- Blank space indicates that the boring was completed prior to the expected geologic unit.

TABLE 4-9

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

THICKNESS OF STRATIFIED TILL AND SAND LAYERS

Boring No.	Thickness of Till Layers		% of Total Unit Thickness Drilled	Thickness of Sand Layers		% of Total Unit Thickness Drilled
	Range	Average		Range	Average	
MPI-1D	0.08-6'	1.34'	81	0.02-3'	0.31'	19
MPI-4D	0.01-11'	0.59'	78	0.006-1.4'	0.20'	22
MPI-5D	0.25-6'	2.43'	79	0.25-1.5'	0.75'	21
MPI-7D	0.02-5'	0.19'	61	0.02-3'	0.14'	39

TABLE 4-10

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

HYDROSTRATIGRAPHIC UNIT TABLE

Hydrostratigraphic Unit	Geologic Units
Outwash Aquifer	Outwash Sand and Gravel
Lacustrine Aquifer	Lacustrine Sandy Silt
Confining Layer	Stratified Till

TABLE 4-11

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SUMMARY OF VERTICAL HYDRAULIC GRADIENTS

	Screen Midpoint Elevation	Elev. Water 4/13/94	Vertical Gradient ft./ft.	Elev. Water 6/15/94	Vertical Gradient ft./ft.	Elev. Water 1/18,19/95	Vertical Gradient ft./ft.
MPI-4I	879.12	905.70		904.73		905.24	
MPI-4S	899.12	905.85	-.008	904.82	-.005	905.31	-.004
MPI-4D	844.70	(1)	(1)	(1)	(1)	905.88	
MPI-4I	879.12					905.24	+ .019
MPI-1I	877.53	905.89		904.86		905.30	
ESI-4	903.56	906.02	-.005	904.89	-.001	905.42	-.005
MPI-7I	881.72	906.43		905.26		905.68	
ESI-3	904.41	906.45	-.001	905.26	0	905.68	0
MPI-5I	879.78	906.09	-.005	904.95		905.30	
MPI-5S	903.78	906.20		905.00	-.002	905.46	-.007

Note:

- indicates downward vertical gradient.
- (1) MPI-4D was installed in January 1995.

TABLE 4-12

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SUMMARY OF HYDROGEOLOGIC PROPERTIES

Hydrostratigraphic Unit	Geologic Unit	Physical Properties			Groundwater Flow Properties		
		Saturated Thickness (ft.) ⁽¹⁾⁽⁴⁾	Hydraulic Conductivity (cm/s) ⁽³⁾	Effective Porosity ⁽²⁾	Principal Flow Direction	Horizontal Gradient ⁽¹⁾ (ft./ft.)	Flow Velocity ⁽¹⁾ (ft./day)
<i>Overburden Water-Bearing Zone:</i>							
Outwash Aquifer	Outwash (north of Main St.)	17.8	8.6×10^{-3}	.25	NW	.003	.29
	Outwash (south of Main St.)	18.3	8.6×10^{-3}	.25	SW	.004	.39
Lacustrine Aquifer	Lacustrine Sandy Silt	13.0	2.8×10^{-4}	.35	SW/NW	.003	.007

Notes:

- (1) Groundwater level data from 4/13/94.
- (2) Effective porosity values are estimated from the low end of a range of total porosity values provided in the literature (Freeze and Cherry, 1979 and Fetter, 1980).
- (3) Geometric Mean.
- (4) Average Value.

TABLE 5-1

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

ANALYTICAL PARAMETERS

Matrix	Parameter	Method
Groundwater ⁽¹⁾	Volatile Organics	ASP 91-1
	Semi-Volatile Organics	ASP 91-2
	Pesticides/PCBs	ASP 91-3
	Target Analyte List Metals	ASP 12/91 D-V-1 through D-V-149
	Cyanide	335.2
	Remediation Assessment Parameters:	
	Soluble Iron	200.7
	Soluble Manganese	243.1
	Hardness	130.2
	Alkalinity	310.1
	Total Suspended Solids	160.2
	Total Dissolved Solids	160.1
pH	Field	
Turbidity	Field	
Specific Conductivity	Field	
eH	Field	
Wastewater	Volatile Organics	ASP 91-1
Air	Tetrachloroethene	NYSDOH 311-7
<p>Note: (1) 3 groundwater samples were analyzed for the full parameter list during Phase I. 22 additional groundwater samples were analyzed for volatile organics only during Phase I. 22 groundwater samples were analyzed for volatile organic compounds during Phase II.</p>		

TABLE 5-2

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

GROUNDWATER SAMPLING LOCATIONS

Groundwater Sampling Locations in April 1994:			
Outwash Aquifer			Lacustrine Aquifer
MPI-1S	MW-1	ESI-1	MPI-1I
MPI-2S	MW-4	ESI-3	MPI-4I
MPI-3S	MW-5	ESI-4	MPI-5I
MPI-4S	MW-6	ESI-5	MPI-7I
MPI-5S	MW-7	ESI-6	
MPI-6S	MW-8		
MPI-8S	MW-9		
MPI-9S	MW-10		
Groundwater Sampling Locations in January 1995:			
Outwash Aquifer			Lacustrine Aquifer
MPI-1S	MPI-10B	ESI-3	MPI-1I
MPI-2S	MPI-11B	ESI-4	MPI-4I
MPI-3S	MPI-12B	ESI-5	MPI-5I
MPI-4S	MPI-13B	ESI-6	MPI-7I
MPI-5S	MPI-14B		
MPI-6S			
MPI-8S			
MPI-9S			
			Stratified Till Unit
			MPI-4D

TABLE 5-3

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

SAMPLING LOCATIONS

SEWER SAMPLING LOCATIONS:	
Sample No.	Manhole Location
MH-11	Intersection of Whaley & Fillmore Ave. Paine St. Intersection of Main & Paine Sts. Intersection of Main & Paine Sts. Near corner of Main & Elm St. on the sidewalk Main St. in front of Delia's car dealership
MH-61	
MH-62E	
MH-62W	
MH-64	
MH-65	
INDOOR AIR SAMPLING LOCATIONS:	
Sample No.⁽¹⁾	Sample Location⁽²⁾
BG-1/BG-2	Boys/Girls Club, 16 Paine St. - NE corner of basement
BA-1/BA-2 (Phase I)	Jackson's Bowling Alley, 30 Whaley Ave. - SE corner of basement
#1, #2 - Bowling Alley (Phase II)	
C-1/C-2 (Phase I)	First Presbyterian Church, 9 Paine St. - Classroom #114 (center of room) in NW corner of former day-care center.
#1, #2 - 1st Pres.Church (Phase II)	
VH-1/VH-2	Village Hall, 571 Main St. - NE corner of basement (records room)
OB	Outdoor Background - SE corner of First Presbyterian Church
#1 - 31 Whaley #2 - 31 Whaley	31 Whaley Avenue - Northern edge of basement, middle
#1 - 34 Whaley #2 - 34 Whaley	34 Whaley Avenue - Northeast corner of basement
#1 - 517 Fillmore #2 - 517 Fillmore	517 Fillmore Avenue - Northeast corner of basement
#1 - 531 Fillmore #2 - 531 Fillmore	531 Fillmore Avenue - center of basement toward western edge
Notes:	
(1) Samples collected in duplicate except for OB.	
(2) All samples collected at floor or ground level.	

**TABLE 5-4
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
SUMMARY OF FIELD MEASUREMENTS FOR PHASE I RI SAMPLING⁽¹⁾**

Location	Sampling Date	Sampling Time	Temp. (°C)	pH (units)	Eh (mV)	Conductance (umhos/cm) ⁽²⁾	Turbidity ⁽³⁾ (NTU)	Sample Appearance/Odor
MPI-1S	4/4/94	14:14	9.2	7.45	+82	2220	>100	clear/no odor
MPI-1I	4/6/94	10:36	8.8	7.35	+151	1531	9	clear/no odor
MPI-2S	4/4/94	15:33	10.2	7.38	+101	1522	>100	clear/no odor
MPI-3S	4/4/94	14:48	8.4	7.29	+55	1657	>100	clear/no odor
MPI-4S	4/4/94	12:28	8.2	7.46	+82	1933	>100	clear/no odor
MPI-4I	4/4/94	12:15	11.0	7.45	+81	1619	16	clear/no odor
MPI-5S ⁽⁴⁾	4/6/94	12:18	6.2	7.48	+5	1650	35	clear/no odor
MPI-5I	4/6/94	12:08	9.6	7.44	+49	1598	6	clear/no odor
MPI-6S	4/4/94	14:40	8.5	7.21	+53	1691	98	clear/no odor
MPI-7I ⁽⁴⁾	4/7/94	10:10	8.7	8.01	+68	1820	6	clear/no odor
MPI-8S	4/4/94	10:58	7.9	7.27	+148	1915	12	clear/no odor
MPI-9S	4/4/94	11:08	10.2	7.07	+141	2140	>100	turbid/no odor
ESI-1	4/5/94	15:27	9.8	7.52	+78	1080	>100	turbid/no odor
ESI-3 ⁽⁴⁾	4/7/94	10:50	9.6	7.77	+55	1934	>100	turbid/no odor
ESI-4	4/6/94	10:43	5.9	7.44	+139	3360	64	clear/no odor
ESI-5	4/6/94	10:50	6.3	7.68	+145	481	>100	clear/no odor
ESI-6	4/4/94	14:56	10.7	7.60	+70	2920	>100	milky/no odor
MW-1	4/5/94	10:36	8.3	7.41	+23	2130	21	clear/no odor
MW-4	4/5/94	13:28	9.9	7.15	-47	3260	6	clear/petroleum
MW-5	4/5/94	12:45	8.2	7.06	-90	1744	45	clear/petroleum
MW-6	4/5/94	10:54	6.3	12.61	-122	2120	>100	clear/slt solvent
MW-7	4/5/94	11:05	7.9	7.66	+20	1126	>100	clear/no odor
MW-8	4/5/94	11:15	7.7	7.44	+60	1280	>100	clear/no odor
MW-9	4/5/94	13:05	11.0	7.26	-70	1414	>100	clear/petroleum
MW-10	4/5/94	14:36	8.2	7.17	-36	1293	73	clear/petroleum

Notes: (1) Except where noted, all measurements are readings obtained from first bailer of water.
(2) Conductance corrected to 25C.
(3) Turbidity and Sample Appearance based on first bailer measurements only (i.e., undisturbed groundwater).
(4) Measurements are averages of readings obtained from first and last bailers of water.

**TABLE 5-4
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
SUMMARY OF FIELD MEASUREMENTS FOR PHASE II RI SAMPLING⁽¹⁾**

Location	Sampling Date	Sampling Time	Temp. (°C)	pH (units)	Eh (mV)	Conductance (umhos/cm) ⁽²⁾	Turbidity ⁽³⁾ (NTU)	Sample Appearance/Odor
MPI-1S	1/31	11:50	9.3	7.8	-1	1980	29.1	clear
MPI-1I	1/31	10:50	11.2	7.8	-48	1580	3.3	clear
MPI-2S	1/25	15:36	9.1	7.7	+130	1390	57.0	clear
MPI-3S	1/30	11:57	8.1	7.4	-38	3560	>200	orange colored silt
MPI-4S	1/30	16:26	7.9	7.4	-22	5600	>200	silty
MPI-4I	1/31	16:35	9.4	7.4	-41	152	60	clear
MPI-4D	1/31	15:33	8.8	8.2	+1	210	>200	slightly silty
MPI-5S	1/27	14:15	9.2	7.6	+50	2830	71	bacterial growth in water
MPI-5I	1/27	15:17	9.4	7.3	-40	3610	1.7	clear
MPI-6S	1/26	14:52	7.4	7.8		1515	28.1	clear
MPI-7I	1/26	11:38	7.2	6 ⁽⁴⁾	+9	1222	1.6	clear
MPI-8S	1/27	11:25	9.3	7.6	+12	4720	9.6	clear
MPI-9S	1/27	10:00	10.0	8.0	+51	2930	93.0	silty
MPI-10B	1/25	16:54	8.8	7.5	+112	1008	170	silty
MPI-11B	1/26	16:05	6.7	8.1		1112	32	clear
MPI-12B	1/25	14:40	6.4	6.2	+128	1611	>200	silty, opaque
MPI-13B	1/25	11:20	6.7	5.7	+150	1331	>200	silty, opaque
MPI-14B	1/25	9:51	7.8	5.9	+113	1130	6.3	clear
ESI-3	1/26	9:45	8.6	6 ⁽⁴⁾	+78	678	158	slightly silty
ESI-4	1/31	9:41	8.4	6.0	0	3040	<200	orange brown silty
ESI-5	1/30	15:02	7.2	8.0	+52	765	189	silty
ESI-6	1/30	14:01	11.0	7.5	-1	4310	<200	silty

Notes
 (1) Except where noted, all measurements are readings obtained from first bailer of water.
 (2) Conductance corrected to 25C.
 (3) Turbidity and Sample Appearance based on first bailer measurements only (i.e., undisturbed groundwater).
 (4) Measurements are averages of readings obtained from first and last bailers of water.

**TABLE 5-5
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
PHASE I (APRIL 1994) GROUNDWATER SAMPLING RESULTS⁽¹⁾**

Parameter ⁽²⁾ (ug/l)	MPI 1S	MPI 1I	MPI 2S	MPI 3S	MPI 4S	MPI 4I	MPI 5S	MPI 5I	MPI 6S	MPI 7I	MPI 8S	MPI 8S ⁽³⁾	MPI 9S	GWQ Std ⁽⁴⁾
vinyl chloride							9J							2
methylene chloride	10UJ		10UJ	10UJ	10UJ	10UJ			20UJ	10UJ	10UJ	10UJ	10UJ	5
acetone		11				91		41		39				50**
1,1-dichloroethene									19J					5
1,2-dichloroethene (T)	20				2J		39		24J		16J	15J	24	5
chloroform					3J					2J				7
2-butanone														
1,1,1 trichloroethane			14											5
bromodichloromethane														
trichloroethene	10J					10J	12		110		22J	23J	22	5
benzene					12									0.7
tetrachloroethene	290	3J			59	350	56	1J	1600	140	500	530	350	5
toluene														5
ethylbenzene														5
xylene (T)														5

Notes (1) Only compounds detected above the Analytical Detection Limit in one or more samples are shown here. Blank space means the compound was not detected above the Analytical Detection Limit.
 (2) Analyzed by ASP Method 91-1.
 (3) Duplicate Sample.
 (4) NYSDEC Class GA Groundwater Quality Standards.
 ** Guidance Value
 J = estimated value due to limitations identified during quality control review.
 UJ = Estimated Detection Limit

**TABLE 5-5
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT
PHASE I (APRIL 1994) GROUNDWATER SAMPLING RESULTS⁽¹⁾**

Parameter ⁽²⁾ (ug/l)	ESI-1	ESI-3	ESI-4	ESI-5	ESI-6	MW-1	MW-1 ⁽³⁾	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	GWQ Stds. ⁽⁴⁾
vinyl chloride									240				8J		2
methylene chloride	10UJ				10UJ	61J	120J	10UJ	54J	10UJ	10UJ	11J	10UJ	27UJ	5
acetone										46					50**
1,1-dichloroethene															5
1,2-dichloroethene (T)			2J		62			24	45J			6J	27	1J	5
chloroform															7
2-butanone															
1,1,1 trichloro- ethane			4J												5
bromodichloro- methane															50**
trichloroethene	3J		1J		16J	37J	64J	46				26J	2J		5
benzene								55	3200	3J			110	28J	0.7
tetrachloroethene		8,200	32	2J	390	3100	4400	220			120	390		36J	5
toluene								3J	740	2J			6J	10J	5
ethylbenzene								30	430	3J			47	230	5
xylene (T)								41	1900	6J			37	410	5

Notes: (1) Only compounds detected above the Analytical Detection Limit in one or more samples are shown here. Blank space means the compound was not detected above the Analytical Detection Limit.

(2) Analyzed by ASP Method 91-1.

(3) Duplicate sample

(4) NYSDEC Class GA Groundwater Quality Standards

** Guidance Value

J = Estimated value due to limitations identified during quality control review.

UJ = Estimated Detection Limit.

TABLE 5-5
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT

PHASE II (JANUARY 1995) GROUNDWATER SAMPLING RESULTS⁽¹⁾

Parameter (ug/l)	MPI-1S	MPI-2S	MPI-3S	MPI-4S	MPI-5S	MPI-6S	MPI-8S	MPI-9S	MPI-10B	MPI-11B	MPI-12B	GWQ Sids
Methylene Chloride						10UJ	10UJ		10UJ		10UJ	5
Acetone				5J								50**
2-Butanone				5J	10UJ							
1,1,1-Trichloroethane		12										
Trichloroethene	6J			3J	5J	280	16	14	4J	4J		5
Tetrachloroethene	170			36	16	1800	630	190	1700			5
1,2-Dichloroethene	13			4J	19	28	13	15	4J		3J	5
1,1-Dichloroethene						14						5
Vinyl Chloride					6J							2
Benzene				4J	1J	1J		1J			2J	0.7
Toluene												5
Chlorobenzene												
1,2-Dichloropropane						3J						
Chloroform										1J		7

Parameter (ug/l)	MPI-13B	MPI-14B	ESI-3	ESI-4	ESI-5	ESI-6	MPI-11	MPI-4I	MPI-5I	MPI-7I	MW-4D	GWQ Sids ⁽²⁾
Methylene Chloride	10UJ	10UJ	10UJ			14J	3J	14J	10	10UJ	5J	5
Acetone				3J	2J							50**
2-Butanone												
1,1,1-Trichloroethane			4J	4J								5
Trichloroethene			3J	2J	20J			59				5
Tetrachloroethene	2J		3600	36	2J	520		460		130		5
1,2-Dichloroethene			12	2J		82		5J				5
1,1-Dichloroethene												5
Vinyl Chloride					1J							2
Benzene	1J											0.7
Toluene												5
Chlorobenzene												
1,2-Dichloropropane												
Chloroform												7

Notes: (1) Only compounds detected above the Analytical Detection Limit in one or more samples are shown. J = Estimated value due to limitations identified during quality control review.
 Blank space means compound was not detected above the Analytical Detection Limit.
 (2) Analyzed by ASP Method 91-1. UJ = Estimated Detection Limit
 (3) NYSDEC Class GA Groundwater Quality Standards. ** = Guidance Value

**TABLE 5-6
MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

MAY 1994 GROUNDWATER SAMPLING RESULTS – ADDITIONAL PARAMETERS

Parameter (ug/l)	ESI-3	MPI-7I	MPI-5S	MPI-7I ⁽¹⁾	GWQ Stds ⁽³⁾
Target Compound List - Semi-Volatile Organics:					
bis(2-ethylhexyl)phthalate	10J	3J		12	50
Butylbenzylphthalate	8J			6J	50**
Diethylphthalate	75			2J	50**
Di-n-butylphthalate	2J				
Target Compound List - Inorganics:					
Aluminum	6200	200UJ	792	200UJ	
Barium	220	117J	214	114J	1000
Calcium	189,000	175,000	126,000	169,000	
Cobalt	16.1J				
Copper	44.1		25UJ		200
Iron	21,200		4,480		300
Lead	11.9		7.4J		25
Magnesium	35,800	37,800	20,700	35,200	35,000**
Manganese	792	814	944	784	300
Mercury	0.21				2
Nickel	40UJ				
Potassium	7,230	5,530	7,380	5,220	
Silver			10UJ		50
Sodium	205,000	157,000	192,000	152,000	250
Vanadium	50UJ		50UJ		
Zinc	104	20UJ	20UJ		300
Soluble Iron			1,090		
Soluble Managanese	130	782J	734J	130J	
Remediation Assessment Parameters: (mg/l)					
Alkalinity, Total	276	299	356		
Hardness	503	578	377		
Total Cyanide			0.02		0.10
Total Dissolved Solids	1,180	1,100	930		
Total Suspended Solids	1,090	1	70		
<p>Notes: (1) Only compounds detected above the Analytical Detection Limit in one or more samples are shown here. Blank space means the compound was not detected above the Analytical Detection Limit.</p> <p>(2) Duplicate Sample</p> <p>(3) NYSDEC Class GA Groundwater Quality Standards</p> <p>J = Estimated value due to limitations identified during quality control review.</p> <p>UJ = Estimated Detection Limit.</p>					

TABLE 5-7

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

MOBILE LABORATORY RESULTS

Area	Location No.	Type	Depth	Analyte Detected	Result (ug/l)	Detection Limit (ug/l)
Fillmore Avenue	H-1(1)	HP	14-17'	None	ND	1.0
	H-1(2)	HP	25-27'	None	ND	1.0
	H-2(1)	HP	11-13'	None	ND	1.0
	H-2(2)	HP	25-27'	None	ND	1.0
	H-3(1)	HP	12-15'	PCE	33	1.0
	H-3(2)	HP	25-27'	PCE Toluene	3.7 BQL	1.0
	#517	PW	15'	PCE TCE	100 BQL	10
	#524	PW	14'	PCE	2.6	1.0
	#531	PW	17'	PCE TCE C-1,2 DCE	210 17 BQL	10
	H-10(1)	HP	12-14'	Toluene M&P Xylene	BQL BQL	1.0
	H-10(2)	HP	26-28'	Toluene	BQL	1.0
H-10(3)	HP	40-42'	Toluene M&P Xylene	1.5 1.2	1.0	
Whaley Avenue	H-4(1)	HP	12-14'	None	ND	1.0
	H-4(2)	HP	26-28'	None	ND	1.0
	MPI-6S	MW	12.3-22.3	PCE TCE	2,000 260	100
	H-11(1)	HP	26-28'	PCE	8,700	1000
	H-11(2)	HP	40-42'	PCE	11	1.0
	MPI-4D(1)	HP	12-14'	VC MC 1,2 DCE TCE 1,1,1 TCA Benzene PCE	2J 1J 9J 10 2J 4J 450	10 50
	MPI-4D(2)	HP	26-28'	1,2 DCE PCE	5J 12	10
	MPI-4D(3)	HP	40.5-42'	None	ND	10

TABLE 5-7

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

MOBILE LABORATORY RESULTS

Area	Location No.	Type	Depth	Analyte Detected	Result (ug/l)	Detection Limit (ug/l)
Agway	H-9(1) (*)	HP	26-28'	PCE 1,2 DCE (**) TCE (**) 1,1,1 TCA (**) Toluene	400 3J 3J 1J 12	10
	MW-7	MW	5-14.5	PCE	1,800	100
	H-14(1)	HP	14-16'	PCE	880	100
	H-14(2)	HP	26-28'	PCE	920	100
	H-15(1)	HP	13-15'	PCE t-1,2 DCE Benzene Toluene Ethylbenzene M&P-Xylene O-Xylene	2.2 BQL 20 1.5 10 11 1.8	1.0
	HP-15(2)	HP	26-28'	PCE TCE C-1,2 DCE t-1,2 DCE	22 5 5 BQL	1.0
Mr. C. Cleaners	H-12	HP	26-28'	PCE TCE C-1,2 DCE t-1,2 DCE	9.7 1.6 2.2 BQL	1.0
	SB-1	SOIL	6-8' 8-10'	PCE PCE	48,000(ug/kg) 6,400(ug/kg)	1000 1000
	SB-2(H-13)	SOIL	8-10'	PCE	12,000(ug/kg)	1000
	H-13 (*)	HP	13-15'	PCE 1,2 DCE (**) TCE (**) 1,1,1 TCA (**)	4,700 11 6J 2J	1000
Church	H-5(1)	HP	13-15'	Toluene Ethylbenzene M&P-Xylene O-Xylene	BQL 1,400 4,300 440	100
	H-5(2)	HP	26-28'	C-1,2 DCE Toluene Ethylbenzene M&P-Xylene O-Xylene	BQL 1.6 11 42 4.4	1.0

TABLE 5-7

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

MOBILE LABORATORY RESULTS

Area	Location No.	Type	Depth	Analyte Detected	Result (ug/l)	Detection Limit (ug/l)
Church (Continued)	H-6(1)	HP	12-14'	VC	3.9	1.0
				C-1,2 DCE	1.9	
				Benzene	93	10
				Toluene	37	
				Ethylbenzene	410	
				M&P-Xylene	70	
				O-Xylene	17	
	H-6(2)	HP	26-28'	C-1,2 DCE	34	10
				Benzene	15	
				Toluene	44	
				Ethylbenzene	120	
				M&P-Xylene	500	
	H-7(1)	HP	12-14'	VC	BQL	1.0
				C-1,2 DCE	BQL	
				Benzene	390	100
				Toluene	210	
Ethylbenzene				880		
M&P-Xylene				3,400		
O-Xylene				920		
H-7(2)	HP	26-28'	VC	13	1.0	
			t-1,2 DCE	BQL		
			1,1 DCA	BQL		
			C-1,2 DCE	62		
			1,1,1 TCA	BQL		
			TCE	7.1		
			PCE	7.9		
			Benzene	19		
			Toluene	1.1		
			Ethylbenzene	1.9		
			M&P-Xylene	5.9		
O-Xylene	1.7					

TABLE 5-7

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

MOBILE LABORATORY RESULTS

Area	Location No.	Type	Depth	Analyte Detected	Result (ug/l)	Detection Limit (ug/l)
Church (Continued)	H-8(1)	HP	26-28'	M&P-Xylene	BQL	1.0
	H-8(2)	HP	40-42'	None	ND	1.0
	MPI-3S	MW	8-14' 14-18'	None	ND	1.0

HP	Hydropunch Sample	PCE	Tetrachloroethene
PW	Private Irrigation Well Sample	TCE	Trichloroethene
MW	Monitoring Well Sample	DCE	Dichloroethene
BQL	Detected Below Quantitation Limit	DCA	Dichloroethane
ND	Not Detected	TCA	Trichloroethane
(*)	Duplicate Sample analyzed by Nytest	VC	Vinyl Chloride
(**)	Results obtained by NYTEST	MC	Methylene Chloride

TABLE 5-8

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

GROUNDWATER CONTAMINANTS

Parameter	Concentration Range Detected (ug/l)
Tetrachloroethene	1J - 8200
Potential Degradation Products/Contaminants of Tetrachloroethene: <ul style="list-style-type: none"> • Trichloroethene • 1,2 Dichloroethene • 1,1 Dichloroethene • Vinyl Chloride 	1J - 280 1J - 82 2J - 19J 6J - 240
Petroleum Hydrocarbons: <ul style="list-style-type: none"> • Benzene • Toluene • Ethylbenzene • Xylene • Chlorobenzene 	1J - 3200 3J - 740 3J - 430 6J - 1900 3J
Other Parameters: <ul style="list-style-type: none"> • 1,1,1 Trichloroethane • Acetone • Chloroform • Methylene Chloride • 2-Butanone • 1,2-Dichloropropane 	4J - 14 5J - 91 1J - 3J 1J - 120J 5J - 10UJ 3J

**TABLE 5-9
MR. C CLEANERS SUPERFUND SITE
REMEDIATION INVESTIGATION REPORT
APRIL 1994 SEWER SAMPLING RESULTS⁽¹⁾**

Parameter ⁽²⁾ (ug/l)	MH-11	MH-61	MH-62E	MH-62E ⁽³⁾	MH-62W	MH-64	MH-65	GWQ Stds ⁽⁴⁾
vinyl chloride								2
methylene chloride	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	10UJ	5
acetone	10	21J	19J	17J	84J	20J	38J	50**
1,1-dichloroethene								5
1,2-dichloroethene (T)		3J						5
chloroform	6J	5J	6J	6J	9J	5J	16	7
2-butanone					15J			5
1,1,1 trichloroethane								5
bromodichloromethane		2J	2J	2J	1J	2J	3J	50**
trichloroethene								5
benzene								0.7
tetrachloroethene		4J	1J					5
toluene					10			5
ethylbenzene					2J			5
xylene (T)					21			5

Notes: (1) Only compounds detected above the Analytical Detection Limit in one or more samples are shown here. Blank space means the compound was not detected above the Analytical Detection Limit.

(2) Analyzed by ASP Method 91-1.

(3) Duplicate Sample.

(4) NYSDEC Class GA Groundwater Quality Standards

** Guidance Value

J Estimated value due to limitations identified during quality control review. UJ = Estimated Detection Limit

TABLE 5-10

**MR. C CLEANERS SUPERFUND SITE
REMEDIAL INVESTIGATION REPORT**

INDOOR AIR MONITORING RESULTS

Location	Phase	Sample No.	Tetrachloroethene Concentration	
			ug/m ³	ppm
Boys/Girls Club	I	BG-1	1.7U	0.00025U
		BF-2	1.8	0.00026
Jackson's Bowling Alley	I	BA-1	220	0.032
		BA-2	130	0.019
	II	#1-Bowling Alley	153	0.023
		#2 Bowling Alley	133	0.020
—	II	Trip Blank	2.5U	0.00037U
First Presbyterian Church	I	C-1	16	0.002
		C-2	9.4	0.001
	II	#1-1st Pres. Church	28	0.0041
		#2-1st Pres. Church	9	0.0014
Village Hall	I	VH-1	1.7	0.00025
		VH-2	1.7U	0.00025U
Outside of First Presbyterian Church	I	Outside background (OB)	1.7U	0.00025U
—	I	Trip Blank (TB)	1.7U	0.00025U
31 Whaley Avenue	II	#1-31 Whaley	2.5U	0.00037U
		#2-31 Whaley	43	0.0064
34 Whaley Avenue	II	#1-34 Whaley	2.5U	0.00037U
		#2-34 Whaley	2.5U	0.00037U
517 Fillmore Avenue	II	#1-517 Fillmore	5	0.00079
		#2-517 Fillmore	2.5U	0.00037U
531 Fillmore Avenue	II	#1-531 Fillmore	2.5U	0.00037U
		#2-531 Fillmore	2.5U	0.00037U
—	II	Trip Blank	2.5U	0.00037U

NOTE: Phase I Air Monitoring was performed in March 1994.
Phase II Air Monitoring was performed in April 1995.

SECTION 2
REMEDIAL INVESTIGATION REPORT – APPENDIX A – JUNE 1995

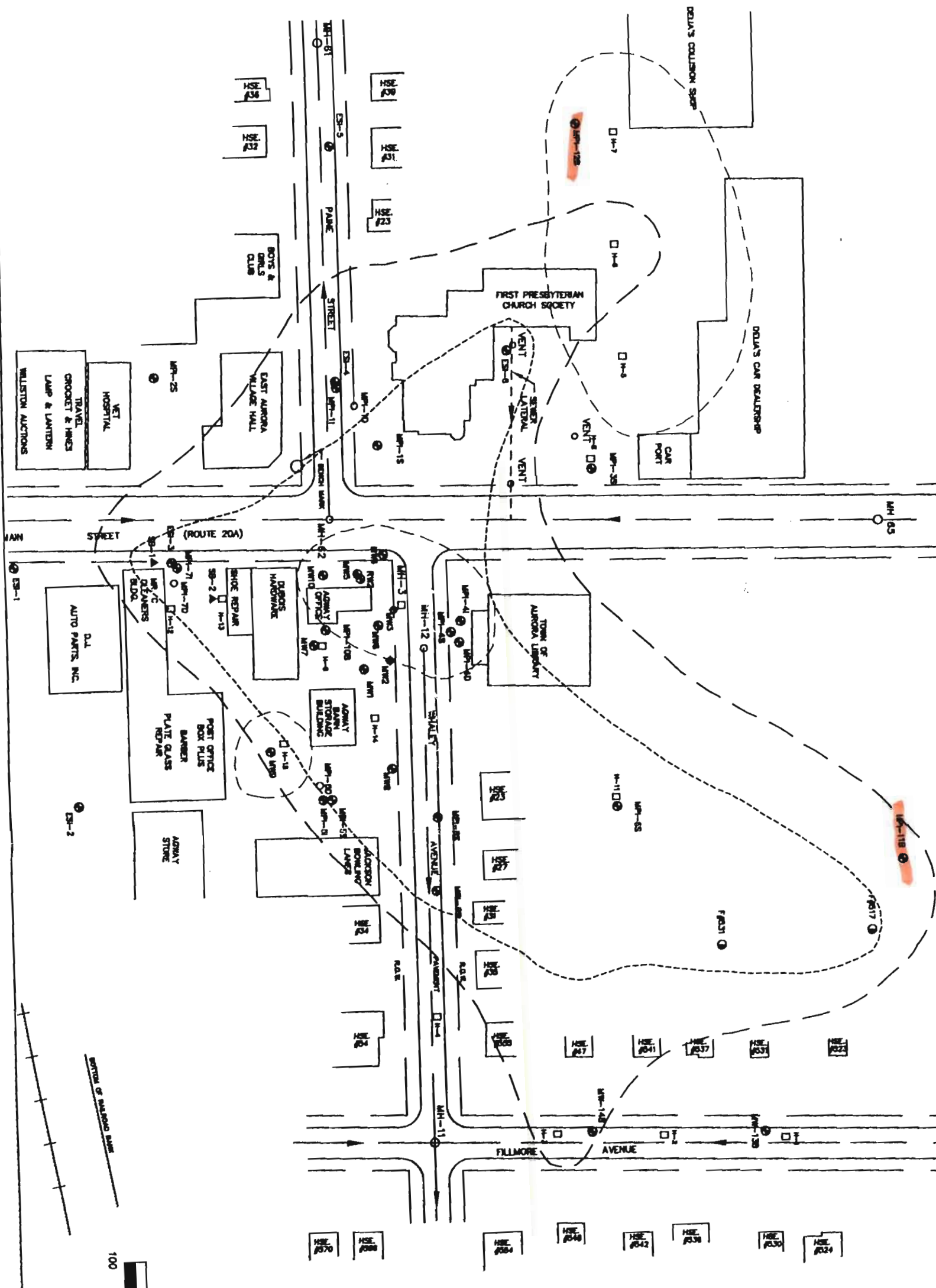
Table 1 Groundwater Monitoring Locations

This section also provides borehole logs for boreholes MPI-1D, MPI-5D, MPI-7D, SB-1 and SB-2. It also provides borehole logs/well construction details for monitoring wells MPI-1S and I; MPI-2S; MPI-3S; MPI-4S, I and D; MPI-5S and I; MPI-6S; MPI-7I; MPI-8S; MPI-9S; MPI-10B through MPI-14B; ESI-1 through ESI-6; AG-1 through AG-10; and MW-1 through MW-5; and RW.



— 5 —





100

SECTION OF BALDWIN ROAD

0

GRAPHIC SCALE

- MH-11
- MH-12
- MH-13
- MH-14
- MH-15
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- MH-100

LE

TABLE 1	
GROUNDWATER MONITORING LOCATIONS MR. C CLEANERS SITE	
Well No.	Location
ESI-1 ESI-3 ESI-4 ESI-5 ESI-6	East of former Post Office Adjacent to Mr. C Paine St. near Church Paine St. Church lawn
AG-1	South of Agway Barn
AG-4 AG-5 AG-6	Corner of Whaley & Main St. South of Agway South of Agway office, near southeast corner
AG-7 AG-8 AG-9 AG-10	North of Agway office, near northwest corner North of Agway office, near northeast corner Northwest of northwest corner of Agway Barn Between Agway Barn and P.O. Box Plus, north
MPI-1 MPI-1I	Corner of Main & Paine Sts. on church property Paine St. near church/ESI-4
MPI-2 MPI-3	Village Hall parking lot Church lawn near Main St.
MPI-4 MPI-4I	Library - east side Library - east side
MPI-5 MPI-5I	North of Agway Barn North of Agway Barn
MPI-6 MPI-7I	Library parking lot Mr. C Parking lot near Main St.
MPI-8 MPI-9	Whaley St. Whaley St.

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: 8.25-inch ID HSA
 LOGGED/CHECKED BY: JPH/RHO
 SURFACE ELEVATION: 815.38ft.

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 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	814.38	TOPSOIL Dark brown CLAYEY SILT, trace fine sand, grass rootlets		1 SS	1 2 3 3	0.8	5					JHS=0.1 ppm	
2	813.38	TILL Light-moderate brown CLAYEY SILT, little clay, little subangular fine gravel, firm, CL		2 SS	2 4 8 8	0.8	13					JHS=0.2 ppm	
3	812.38	Light brown-olive moist CLAYEY SILT, some fine-coarse sand, little fine shale subangular gravel, blocky texture, stiff, CL		3 SS	3 7 4 11	1.8	11					JHS=0.1 ppm	
4	811.38	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		4 SS	4 5 5 5	1.2	10					JHS=0.3 ppm	
5	810.38	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		5 SS	2 2 2 3	0.3	4					JHS=0.1 ppm	
6	809.38	Moderate brown wet v.fine-silt, loose, SP-SM		6 SS	2 2 3 4	1.3	5					JHS=0.2 ppm	
7	808.38	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'		7 SS	5 8 8 12	2.0	12					JHS=0.5 ppm	
8	807.38	Moderate gray wet v.fine SAND, trace-occ.fine gravel, trace-little silt, liquifies when disturbed, compact, SM		8 SS	1 5 5 5	1.8	10					JHS=0.8 ppm	
9	806.38	SILT & v.fine SAND, light brown-tan		8 SS	WR WR 3 8	2.0	3					JHS=0.8 ppm	
10	805.38	Brown wet v.fine-silt, trace medium, w/very fine sand partings as bedding fabric, liquifies when disturbed, loose, SP-SM		10 SS	3 4 4 5	1.4	8						
11	804.38	Brownish gray wet v.fine-silt, trace silt & v.fine sand as bedding fabric, loose, SM											
12	803.38												
13	802.38												
14	801.38												
15	800.38												
16	898.38												
17	898.38												
18	897.38												
19	896.38												
20	895.38	Boring complete at 20'. Set well.											

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

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	812.85	TOPSOIL moist dark brown SILT LOAM, soft, fine size roots, ML		1 SS	1 2 3 5	1.2	5					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		2 SS	5 5 8 8	1.1	11						JHS=0.3 ppm
3	810.85	becoming stiff at 2.0'		3 SS	3 4 5 8	1.1	9						JHS=0.1 ppm
4	809.85			4 SS	5 4 4 3	0	8						JHS=-- ppm
5	808.85	no recovery, stiff		5 SS	2 2 2	0	4						JHS=-- ppm
6	807.85			6 SS	8 5 4 5	1.5	9						JHS=0.1 ppm
7	806.85	no recovery, very loose		7 SS	3 5 5 8	1.0	10						JHS=0.3 ppm
8	805.85			8 SS	4 4 8 4	0.8	10						JHS=0.2 ppm
9	804.85	STRATIFIED Brown moist SILTY SANDY GRAVEL w/80-80% gravel, little sand and silt, loose when disturbed, GM		9 SS	2 4 8 13	1.4	12						JHS=0.1 ppm
10	803.85			10 SS	7 5 8 8	1.4	11						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									
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)
 BS3 Split Spoon (3in.ID)
 BT Shelby Tube (2.8in.ID)
 WR Weight of Rods
 NR No Recovery
 - Sampler Refusal

JHG HNU reading in jar headspace
 GAB 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	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.		
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'		8 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 ppm
26	887.85	Brownish gray wet SILTY SAND, mostly very fine sand, little fine, trace-no medium size, loose, readily liquifies when disturbed, SM 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 Grayish brown wet SAND, mostly fine and medium sand, trace silt, compact, loose when disturbed, SP-SM Brownish gray wet SAND, mostly fine-medium sand, trace-no silt, occasional silt lenses, compact, loose when disturbed, SP 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 becoming stiff at 34' becoming loose at 38'		12 SS	1 2 4 5	1.0	8					JHS=0.5 ppm
27	888.85											JHS=0.5 ppm
28	885.85											JHS=0.5 ppm
29	884.85			13 SS	4 8 8 8	1.2	18					JHS=0.5 ppm
30	883.85											JHS=0.5 ppm
31	882.85			14 SS	5 7 8 8	1.8	15					JHS=0.5 ppm
32	881.85											JHS=0.5 ppm
33	880.85			15 SS	WH WH 2 3	1.3	2					JHS=0.4 ppm
34	878.85											JHS=0.5 ppm
35	878.85			18 SS	8 4 5 8	1.5	8					JHS=0.5 ppm
36	877.85									JHS=0.4 ppm		
37	878.85	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.: 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: 913.95ft.

SYMBOLS AND DEFINITIONS

88 Split Spoon (2in.ID)
 883 Split Spoon (3in.ID)
 BT Shelby Tube (2.8in.ID)
 MR 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	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	872.95	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'		19 SS	3 2 2 3	1.4	4					JHS=0.5 ppm
42	871.95			20 SS	3 3 3 3	1.2	8					JHS=0.5 ppm
43	870.95				21 SS	3 3 2 3	1.3	5				
44	869.95	22 SS	2 3 8 8			1.3	9					JHS=0.5 ppm
45	868.95		23 SS	2 8 11 11		1.2	17					JHS=0.5 ppm
46	867.95			24 SS	8 5 7 8	1.8	12					JHS=0.4 ppm
47	866.95	25 SS			2 4 5 8	1.8	9					JHS=0.5 ppm
48	865.95		26 SS		1 2 4 5	1.8	8					JHS=0.5 ppm
49	864.95			27 SS	2 2 3 3	1.8	5					JHS=0.5 ppm
50	863.95	28 SS			WH 2 5 5	1.7	7					JHS=0.8 ppm
51	862.95											
52	861.95											
53	860.95	Gray extremely moist SILTY CLAY, with little-some silt, trace sand, stiff, CL										
54	859.95	occasional medium SAND lenses ~2" thick, becoming firm at 54'										JHS=0.5 ppm
55	858.95	Occasional gray extremely moist medium SAND lenses ~1-3" thick at 56.5', 57', 57.5', 58', and 58.5'										JHS=0.5 ppm
56	857.95	becoming stiff at 58'										JHS=0.8 ppm
57	856.95											
58	855.95											
59	854.95											
60	853.95											

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: 02/18/84 - 2/22/84
 DRILLING METHOD: 4.25-inch ID HSA
 LOGGED/CHECKED BY: JMA/RHO
 SURFACE ELEVATION: 813.851t.

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 HWU reading in jar headspace
 GAB 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	SOIL DATA				ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (ft)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.			% REC.
61	852.95	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'		28 SS	3 4 8 8	1.8	10					JHS=0.5 ppm
62	851.95	becoming firm at 82', medium SAND from 82-82.5'										JHS=0.5 ppm
63	850.95	thinner SAND lenses at 83'		30 SS	WH 5 5	1.5	5					JHS=0.5 ppm
64	848.95	thin medium sand partings at 84.8', 85', 85.1'.										JHS=0.5 ppm
65	848.95			31 SS	1 2 4 5	1.8	8					JHS=0.5 ppm
66	847.95	3" medium SAND lenses										JHS=0.5 ppm
67	848.95			ST			2.0					JHS=0.5 ppm
68	845.95	3" medium SAND lenses. Gray moist-extremely moist SILTY CLAY, little-some silt, occasional silt partings, soft, CL										JHS=0.5 ppm
69	844.95			32 SS	WH 2 8	1.8	2					JHS=0.7 ppm
70	843.95	Gray moist SAND from 70-70.5', mostly medium sand, loose, SP										JHS=0.8 ppm
71	842.95	Gray wet SAND at 71.5, SP		33 SS	1 2 5 8	1.8	7					JHS=0.7 ppm
72	841.95	Interlayered gray moist SILTY CLAY ~4-8" thick, w/little-some silt, soft, CL & SILTY SAND w/ little silt, mostly fine sand, very loose, liquefies when disturbed, SM										JHS=0.8 ppm
73	840.95			34 SS	WH 1 2 3	2.0	3					JHS=0.7 ppm
74	838.95	Gray moist SILTY CLAY, little silt, soft, CL										JHS=0.8 ppm
75	838.95			35 SS	WH 1 3 8	2.0	4					JHS=0.8 ppm
76	837.95	Gray moist SILTY SAND, very fine sand, compact, liquefies when disturbed, SM										JHS=0.8 ppm
77	836.95	Gray moist CLAYEY SILT, some clay, occ v. thin fine sand partings, v. stiff, CL		36 SS	8 8 8 8	2.0	17					JHS=0.5 ppm
78	835.95	Gray moist SILTY SAND, some silt, mostly fine & very fine sand, compact, liquefies when disturbed, SM-ML										JHS=0.5 ppm
79	834.95			37 SS			1.7					JHS=0.5 ppm
80	833.95	Gray wet SILTY CLAY, little silt, v. soft, CL										JHS=0.5 ppm

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

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 ('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.	% ROD.		
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			39 SS	1 2 2 2	1.7	4					JHS=0.5 ppm
83	830.85	Gray wet CLAYEY SILT tending toward SILTY CLAY, some clay, very soft, CL	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					JHS=0.5 ppm
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											
87	826.85	Gray wet SILT with little very fine sand, liquifies when disturbed, ML										
88	825.85											
89	824.85	Boring complete at 80.0'. Grouted hole with cement bentonite grout. Moved 1/2 feet. Installed MPI-II.										
90	823.85											
91	822.85											
92	821.85											
93	820.85											
94	819.85											
95	818.85											
96	817.85											
97	816.85											
98	815.85											
99	814.85											
100	813.85											


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: 813.53ft.

SYMBOLS AND DEFINITIONS


 BENTONITE-CEMENT BEAL
0 to 2.0 feet

 BENTONITE BLURRY BEAL
2.0 to 28.2 feet


 NORIE #00 SAND PACK
28.2 to 41 feet


 2-INCH DIAMETER BLOTTED (0.008")SCREEN
31.0 to 41.0 feet

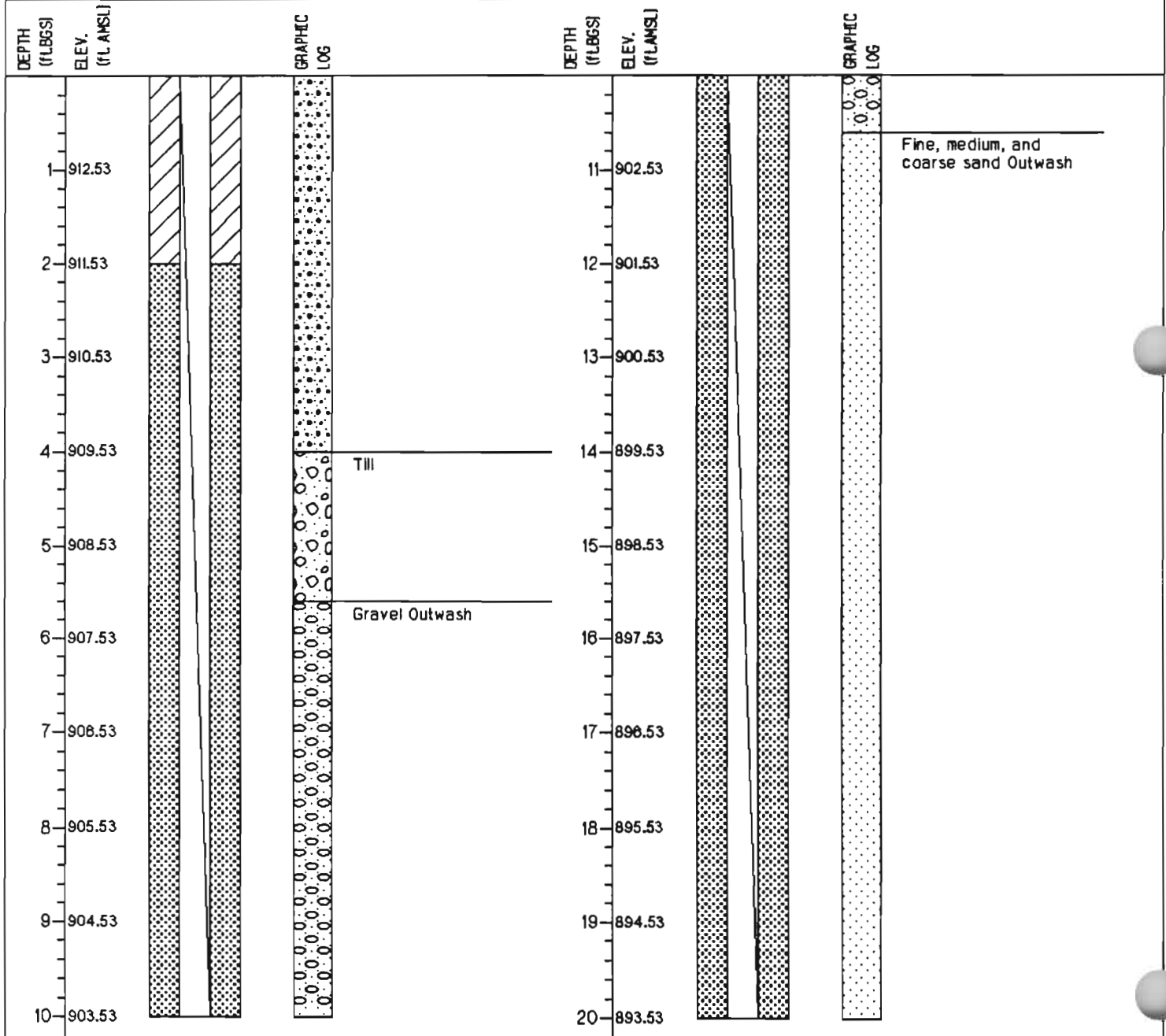
 4-INCH DIAMETER CASING
0 feet

 2-INCH DIAMETER RIBER
0 to 31.0 Feet

 6-INCH DIAMETER BOREHOLE
0 feet

 4-INCH DIAMETER BOREHOLE
0 feet

 GRAPHIC LOG
refer to
BOREHOLE LOG MPI-ID
for a
complete
description












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

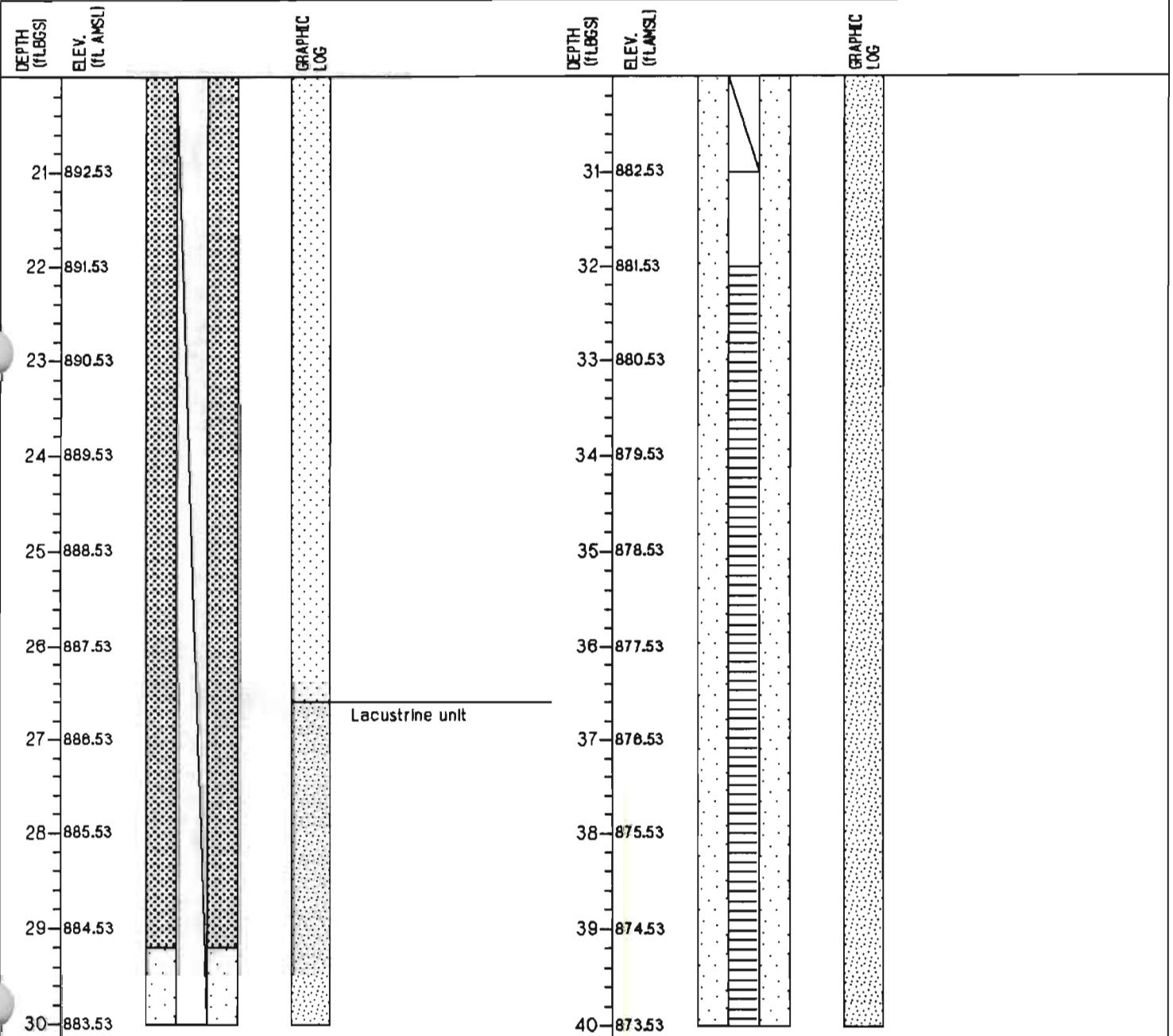
WELL/BOREHOLE MPI-1I CONSTRUCTION DETAILS

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	 4-INCH DIAMETER CASING 0 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-1D for a complete description
 BENTONITE SLURRY SEAL 2.0 to 29.2 feet	 2-INCH DIAMETER RIBBER 0 to 31.0 Feet	
 MORIE #00 SAND PACK 29.2 to 41 feet	 6-INCH DIAMETER BOREHOLE 0 feet	
 2-INCH DIAMETER SLOTTED (0.006" J) SCREEN 31.0 to 41.0 feet	 4-INCH DIAMETER BOREHOLE 0 feet	







NOTES: 1. 0.7 FT. long by 6-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

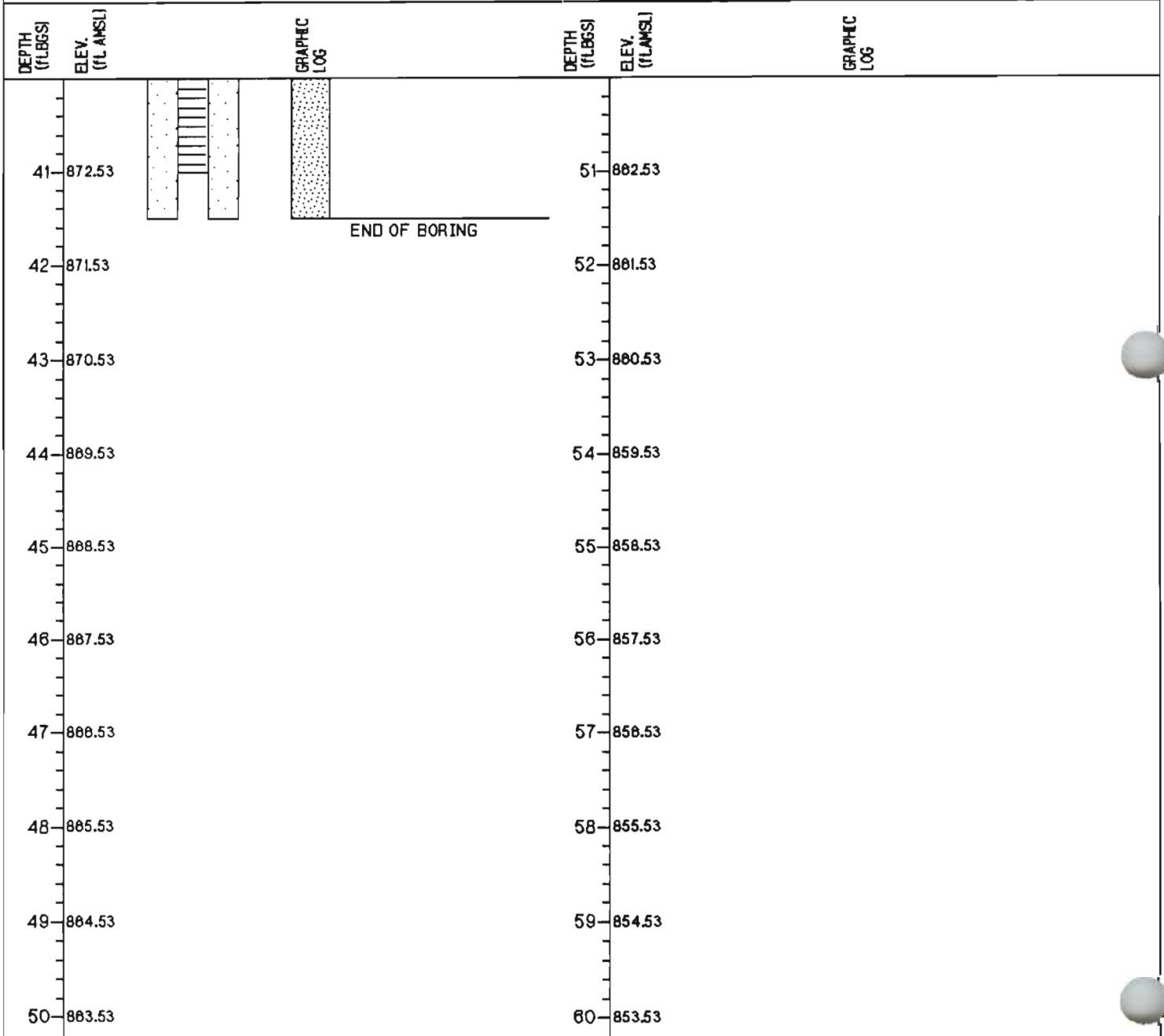
CLIENT: NYSDEC
 DRILLING DATES: 3/94
 DRILLING METHOD: 8.25-inch ID HSA
 LOGGED/CHECKED BY: JMA/RHO
 SURFACE ELEVATION: 813.53ft.

SYMBOLS AND DEFINITIONS

-  BENTONITE-CEMENT BEAL
0 to 2.0 feet
-  BENTONITE SLURRY BEAL
2.0 to 28.2 feet
-  MORIE #00 BAND PACK
28.2 to 41 feet
-  2-INCH DIAMETER BLOTTED (0.006")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



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.: 0200-31-4
 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)
 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 ('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.	% RQD.		
1	818.34	BLACKTOP											JHS=0.3 ppm
2	815.34	Light gray crystalline material (Salty) with low specific gravity		1 SS	8 7 4	1.0	13						JHS=0.3 ppm
3	814.34	TOPSOIL dark brown frozen loam w/white specks		2 SS	1 2 3 3	0.8	5						JHS=0.3 ppm
4	813.34	TILL, brown moist CLAYEY SILT, little-some sand, little gravel, firm, CL											JHS=0.3 ppm
5	812.34	Brown moist CLAYEY SILT, some sand, 25-40% gravel, stiff, CL		3 SS	4 8 4 4	0.8	10						JHS=0.3 ppm
6	811.34	STRATIFIED brown moist SILTY SAND, mostly coarse sand, trace-little silt, loose when disturbed, loose, SM											JHS=0.3 ppm
7	810.34			4 SS	3 4 8 8	0.4	10						JHS=0.3 ppm
8	808.34	Brown moist SAND, mostly fine-medium sand, trace coarse, trace-no silt, loose when disturbed, very loose, SP-SM											JHS=0.3 ppm
9	808.34			5 SS	1 1 1 3	1.1	2						JHS=0.2 ppm
10	807.34	Brown moist becoming wet at 11.0 SAND, mostly fine, little very fine sand, trace silt, liquifies when disturbed, loose, SP											JHS=0.2 ppm
11	806.34			6 SS	1 1 3 3	1.5	4						JHS=0.2 ppm
12	805.34	Brown wet SAND, mostly fine-medium sand, trace silt & gravel, gravel mostly subrounded and subangular, loose when disturbed, loose, SP											JHS=0.3 ppm
13	804.34			7 SS	3 3 5 8	1.8	8						JHS=0.3 ppm
14	803.34	Brown wet SILTY SAND, mostly fine & very fine sand, trace medium size, little silt, liquifies when disturbed, loose, SP-SM occasional Cobbles at 14.5'											JHS=0.2 ppm
15	802.34			8 SS	1 12 14 17	1.1	28						JHS=0.2 ppm
16	801.34												JHS=0.3 ppm
17	800.34			9 SS	1 2 5 5	1.2	7						JHS=0.3 ppm
18	899.34												JHS=0.3 ppm
19	898.34			10 SS	2 3 5 7	1.4	8						JHS=0.3 ppm
20	897.34	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: 8.25-inch ID HSA
 LOGGED/CHECKED BY: JPH/RHO
 SURFACE ELEVATION: 914.79ft.

SYMBOLS AND DEFINITIONS

BB Split Spoon (2in.ID)
 SB3 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 Combestible 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.		
1	913.79	TOPSOIL dark brown moist gray CLAYEY SILTY, trace fine gravel, trace-little clay		1 SS	1	1.2	3					JHS=0.1 ppm
2	912.79	TILL brown ext. moist SANDY SILT, little fine-coarse sand trace-little gravel shale clasts, trace clay, blocky, v.loose, SM		2 SS	1	0.8	2					
3	911.79	Light brown moist SANDY SILT, trace-little black shale gravel clasts, little very fine-coarse sand & trace clay, soft, ML		3 SS	4	1.1	11					JHS=0.2 ppm
4	910.79	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	3	0	5					
5	908.79	No Recovery										
6	908.79	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	1.0	13					JHS=1.8 ppm
7	907.79	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	0.5	18					JHS=1.2 ppm
8	906.79	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	1.4	28					JHS=0.1 ppm
9	905.79	Gravel, subrounded to 1/4" diameter, compact, GP		8 SS	8	1.8	11					JHS=0.1 ppm
10	904.79	Orange-brown wet SAND, iron stained, v.fine-fine sand, trace-little silt, liquifies when disturbed, compact, SM		8 SS	5							JHS=0.1 ppm
11	903.79	Gray wet SAND, v.fine-fine sand, trace-little silt, liquifies when disturbed, compact, SM		9 SS	2	0.8	4					
12	902.79	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	901.79											
14	900.79											
15	899.79											
16	898.79											
17	898.79											
18	897.79											
19	896.79											
20	894.79											

Boring complete at 18'. Set Well

BOREHOLE LOG MPI-4D

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION
 PROJECT NO.: 0200-31-4
 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: 915.97ft.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 / Ø"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RQD.
1	914.97	TOPSOIL dark brown (frozen from 0-.2), moist SILTY LOAM, little sand, some roots, stiff, (CL-ML)		1 SS	3 4 7	0.3	11					JHS=1	
2	913.97											JHS=1.2	
3	912.97					SS	3 3 3	0.0	8				
4	911.97	no recovery, firm										JHS=0	
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	8					JHS=0.2	
6	909.97	TILL, brown moist CLAYEY SILT with little sand and gravel, trace roots, stiff, (CL)											JHS=0.1
7	908.97	TILL, grayish brown moist CLAYEY SILT with 15-40% mostly angular shale gravel, trace to little sand, stiff, (CL)		3 SS	5 7 7	0.5	14					JHS=0.1	
8	907.97												
9	906.97			4 SS	4 5 8	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) becoming wet at 12'		5 SS	2 3 4	0.9	7					JHS=0.2	
12	903.97												JHS=0.1
13	902.97					8 SS	2 3 3	0.8	8				JHS=0.1
14	901.97	Brown wet SAND, mostly fine sand with trace medium, liquifies when disturbed, loose. (SP-SM) becoming compact at 16'		7 SS	2 2 4	1.1	8					JHS=0.1	
15	900.97												JHS=0.1
16	899.97					8 SS	5 5 7	1.3	12				JHS=0.1
17	898.97	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	
18	897.97												
19	896.97												
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: 915.97ft.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" 7	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RGD.
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=1.0
26	889.97												JHS=1.0
27	888.97				13 SS	2 3 5 8	2.0	8					JHS=0.5
28	887.97	Gray wet SAND, mostly very fine size, little silt, liquifies when disturbed, loose, (SM)			14 SS	1 2 2 4	2.0	4					JHS=0.2
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 6 10	1.4	10					JHS=0
32	883.97												JHS=0
33	882.97												JHS=0
34	881.97				17 SS	3 4 5 5	1.5	9					JHS=0
35	880.97												JHS=0
36	879.97				18 SS	6 6 5 5	1.3	11					JHS=0.1
37	878.97												JHS=0.1
38	877.97				19 SS	6 8 8 7	1.8	16					JHS=0.1
39	876.97												JHS=0.1
40	875.97											JHS=0.1	

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: 915.97ft.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/1 ft.)
 o---o Moisture Content ('N' X)

DEPTH (ft.BGS)	ELEVATION (ft. AMSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	B* / B*	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
41	874.97	continued from page 2	[Dotted Pattern]	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)	[Horizontal Lines]	21 SS	2 3 4 4	1.8	7					JHS=0.1
43	872.97			[Horizontal Lines]	22 SS	1 1 2 2	1.4	3				JHS=0
44	871.97	Brownish gray wet CLAYEY SILT w/little fine sand, firm, CL	[Horizontal Lines]	ST	-	2.0	-					JHS= -
45	870.97	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	[Horizontal Lines]	23 SS	5 8 8 9	1.8	14					JHS=0.1
46	869.97	SILTY SAND .1' thick, mostly v. fine sand	[Horizontal Lines]	24 SS	3 5 7 8	1.4	12					JHS=0.1
47	868.97		SILTY SAND .3' thick, mostly v. fine sand	[Horizontal Lines]	25 ST	-	2.0	-				JHS=0
48	867.97	Gray extremely moist CLAYEY SILT w/occ. v. fine size sand parting, CL	[Horizontal Lines]	28 SS	2 4 4	1.5	8					JHS=0.2
49	866.97	Gray ext. moist CLAYEY SILT tending toward SANDY SILT, v. thin fine sand partings making clayey silt lenses app. 1/2" thick, CL	[Horizontal Lines]	27 SS	1 4 4 8	2.0	8					JHS=0.1
50	865.97	Brownish gray wet alternating layers SANDY SILT & CLAYEY SILT app. 1/16"-1/4" thick, sandy silt layers liquify when disturbed, 2-1" sandy silt layers @ 49.0' & 49.5'	[Horizontal Lines]	28 SS	2 3 4 4	2.0	7					JHS=0.1
51	864.97	Gray ext. moist SILTY CLAY w/an occasional very thin silt parting, stiff, CL	[Horizontal Lines]									
52	863.97	Grey ext. moist SANDY SILT w/v. fine-fine sand, liquifies when disturbed, SM, w/occ. lenses of ext. moist SILTY CLAY, CL	[Horizontal Lines]									
53	862.97	Gray wet SAND, mostly med. size, loose when disturbed, SP w/ gray ext. moist SILTY CLAY, soft, CL from 54-54.5'	[Horizontal Lines]									
54	861.97		[Horizontal Lines]									
55	860.97		[Horizontal Lines]									
56	859.97		[Horizontal Lines]									
57	858.97		[Horizontal Lines]									
58	857.97		[Horizontal Lines]									
59	856.97		[Horizontal Lines]									
60	855.97		[Horizontal Lines]									

BOREHOLE LOG MPI-4D

PROJECT: MR. C CLEANERS REMEDIAL INVESTIGATION
 PROJECT NO.: 0208-3I-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: 915.97ft.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 ('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 / 8"	RECOVERY (ft)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.		
		Becoming stiff at 80.0'.									
61	854.97		29 SS	2 4 8 8	2.0	10					JHS=0.1
62	853.97										JHS=0.1
63	852.97		30 SS	1 5 4 8	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 8 8 8	2.0	12					JHS=0
66	849.97	Gray wet SILT,trace v.fine sand,liquities when dist., muck like consistency,loose,ML									JHS=0
67	848.97	Gray wet CLAYEY SILT,sand partings of fine & med sand throughout,l larger seam 0.5" thick @ 87.7', hard, CL	2 SS	18 22 23 25	1.9	45					JHS=0.1
68	847.97	Gry ext moist SILTY CLAY,CL									JHS=0.1
69	848.97	Gray wet CLAYEY SANDY SILT,some f.sand & silt,trc- little clay,CL	3 SS	3 5 8 10	2.0	13					JHS=0.1
70	845.97	Gray wet SILT,trace v.fine sand,liquities when disturbed,firm, ML	4 SS	8 5 5 8	1.4	10					JHS=0.1
71	844.97	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	5 SS	8 7 7 9	2.0	14					JHS=0.1
72	843.97	Gray wet med SAND 0.7' thick,trace silt,loose,SP/ Gray wet SILTY CLAY from 72.9-74.2', med consist,CL	6 SS	7 9 10 10	2.0	19					JHS=0.1
73	842.97										JHS=0.1
74	841.97										JHS=0.1
75	840.97	Gray wet SAND,mostly f.sand,trace silt,liquifies when disturbed, firm, SP									JHS=0.1
76	839.97	Gray wet SILTY CLAY, stiff, CL									JHS=0.1
77	838.97			4 4 8 9	2.0	10					JHS=0.1
78	837.97	Borhole complete @77.5'. Borelog is a compilation of MPI-4D from 1994 data.									
79	836.97	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 76.5'. Monitoring well installed @76.5'.									
80	835.97										


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: 915.12ft.


SYMBOLS AND DEFINITIONS


 BENTONITE-CEMENT BEAL
0 to 8.6 feet

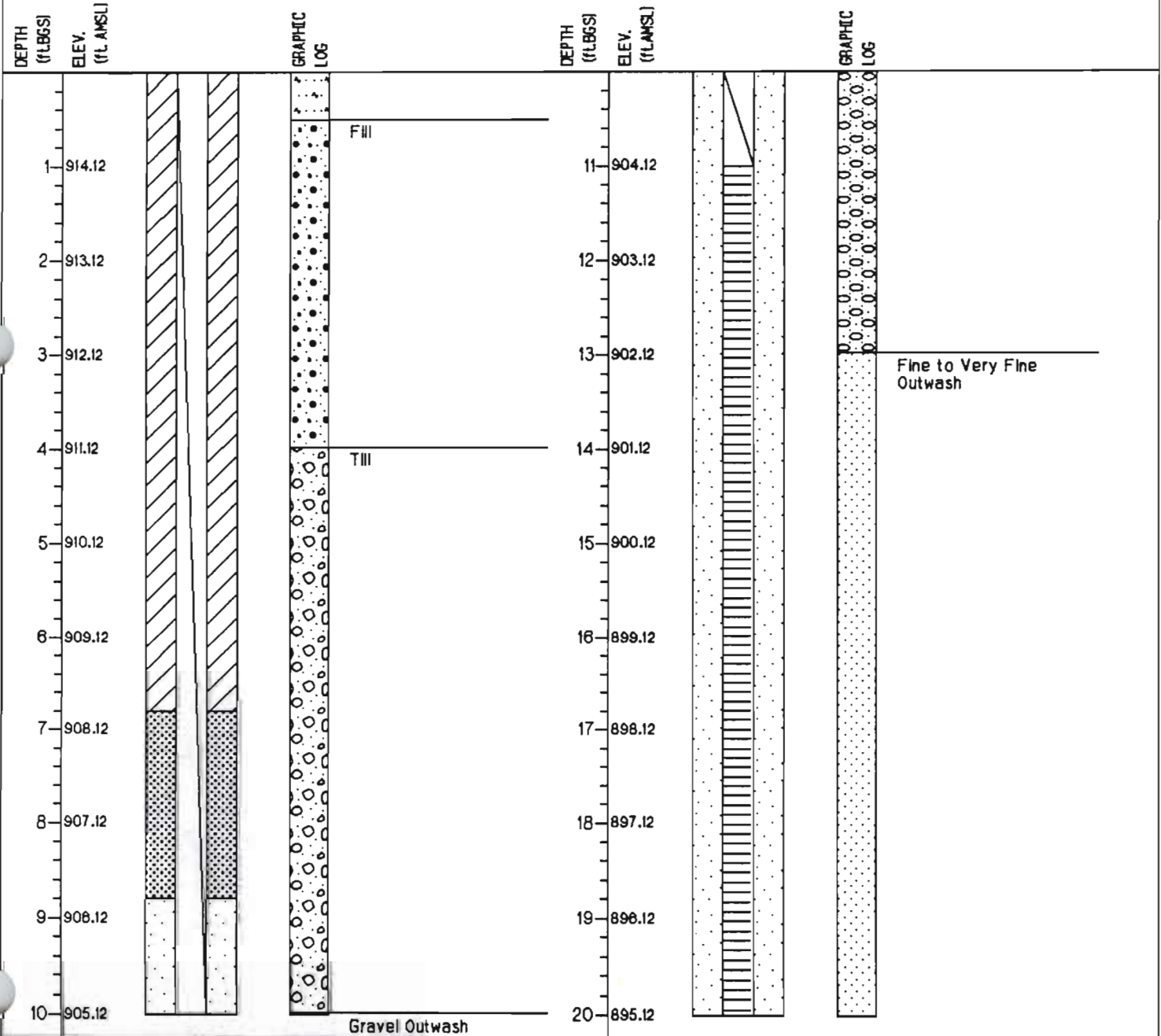
 BENTONITE PELLET BEAL
8.6 to 8.6 feet

 MORIE #0 BAND PACK
8.6 to 21.6 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



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

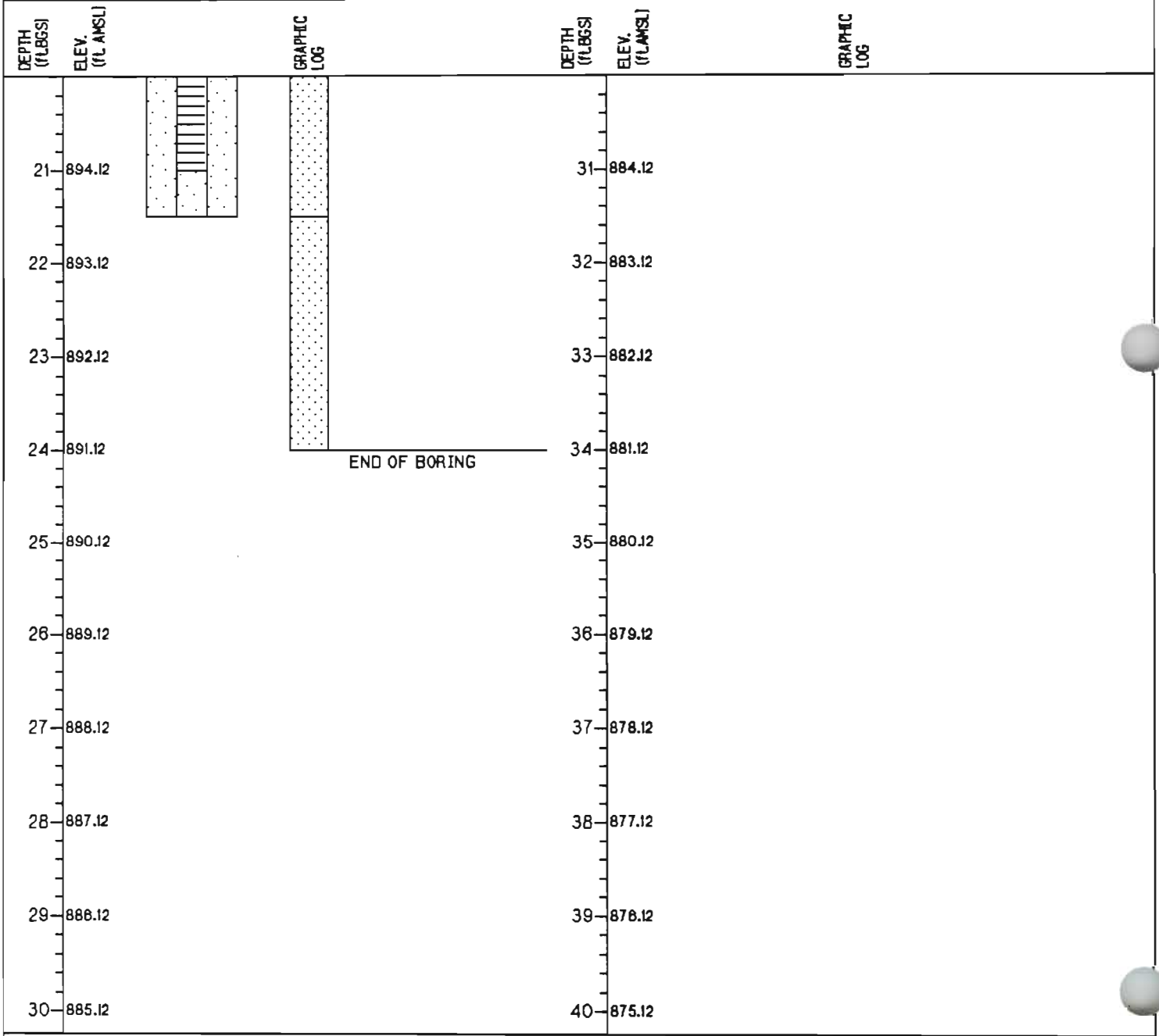
WELL/BOREHOLE MPI-4S CONSTRUCTION DETAILS

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 SEAL 0 to 5.5 feet	 2-INCH DIAMETER RISER 0 to 11.0 feet	 BENTONITE PELLET SEAL 5.5 to 6.5 feet	 GRAPHIC LOG refer to BOREHOLE LOG MPI-4D for a complete description
 MORIE #0 SAND PACK 6.5 to 21.5 feet		 2-INCH DIAMETER BLOTTED (0.01" MESH) SCREEN 11.0 to 21.0 feet	



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

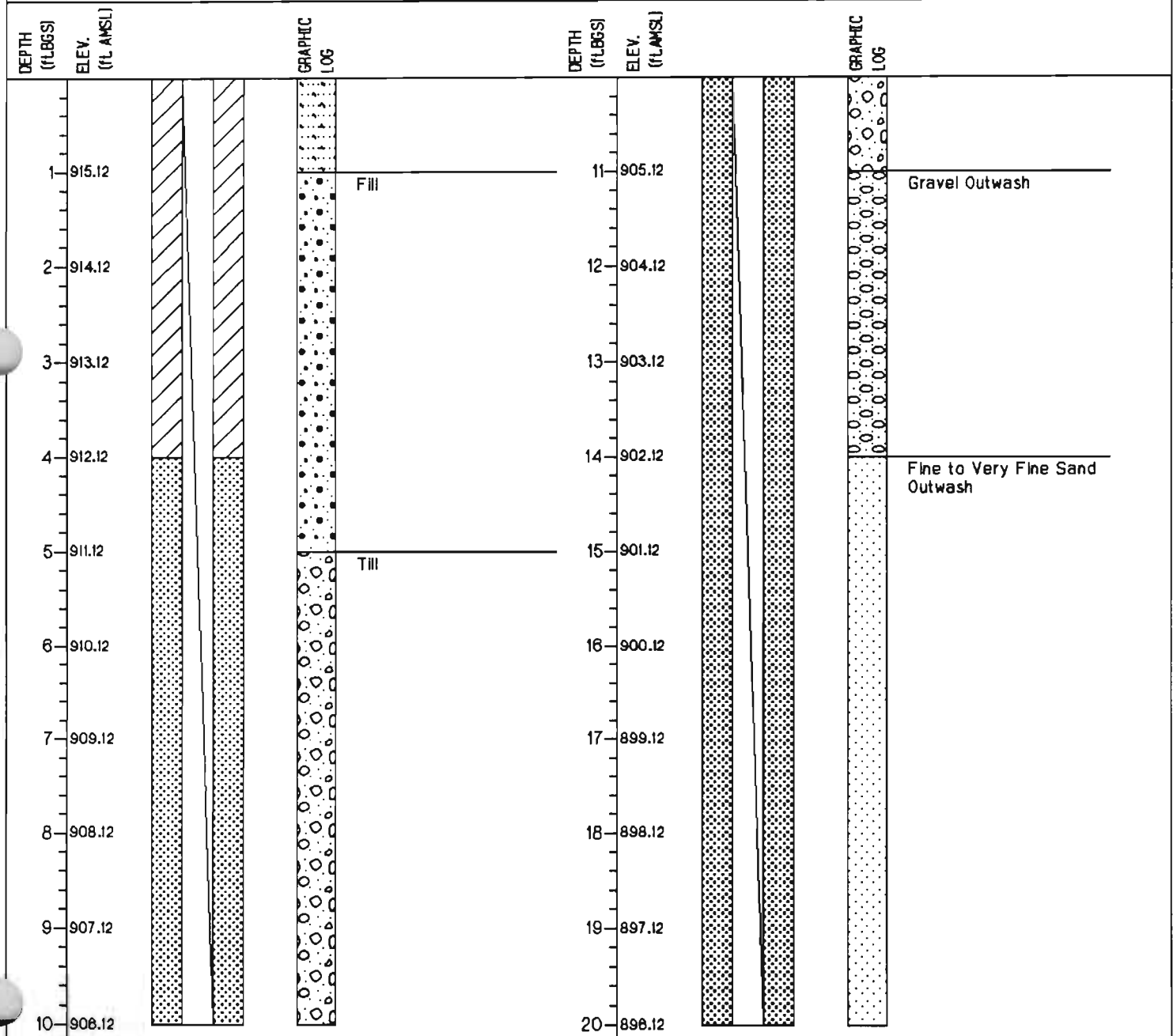
WELL/BOREHOLE MPI-4I CONSTRUCTION DETAILS

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

SYMBOLS AND DEFINITIONS

<p> BENTONITE-CEMENT SEAL 0 to 4.0 feet</p> <p> BENTONITE SLURRY SEAL 4.0 to 29.8 feet</p> <p> MORIE #00 SAND PACK 29.8 to 42.5 feet</p> <p> 2-INCH DIAMETER SLOTTED (0.006")SCREEN 32.0 to 42.0 feet</p>	<p> 4-INCH DIAMETER CASING</p> <p> 2-INCH DIAMETER RISER 0 to 32.0 feet</p> <p> 8-INCH DIAMETER BOREHOLE</p> <p> 4-INCH DIAMETER BOREHOLE</p>	<p> GRAPHIC LOG refer to BOREHOLE LOG MPI-4D 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.

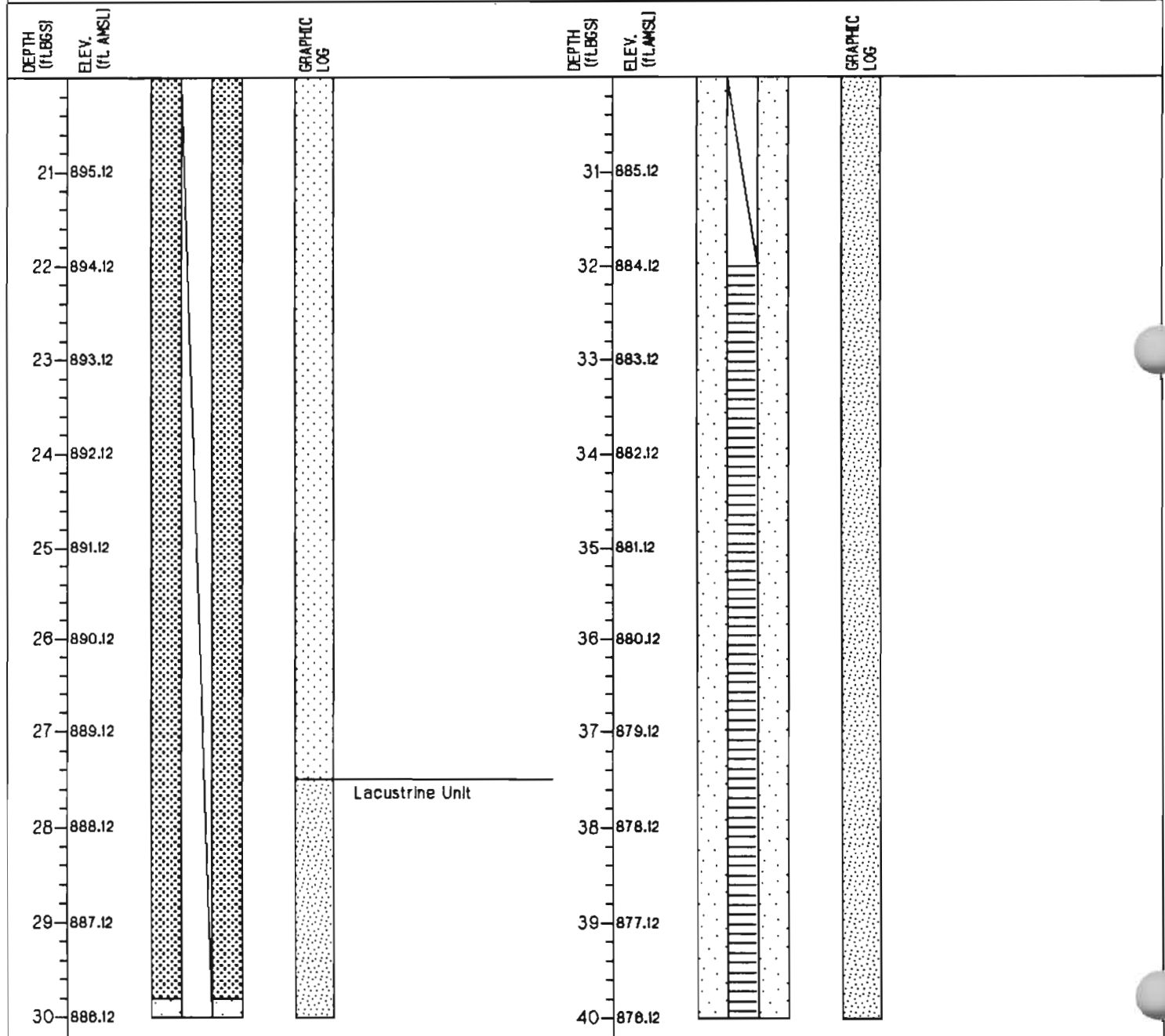
WELL/BOREHOLE MPI-4I CONSTRUCTION DETAILS

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: 0.25-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 28.6 feet  MORIE #00 SAND PACK 28.6 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 6-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: 3/94
 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 BLOTTED (0.008")SCREEN
32.0 to 42.0 feet



 4-INCH DIAMETER CASING

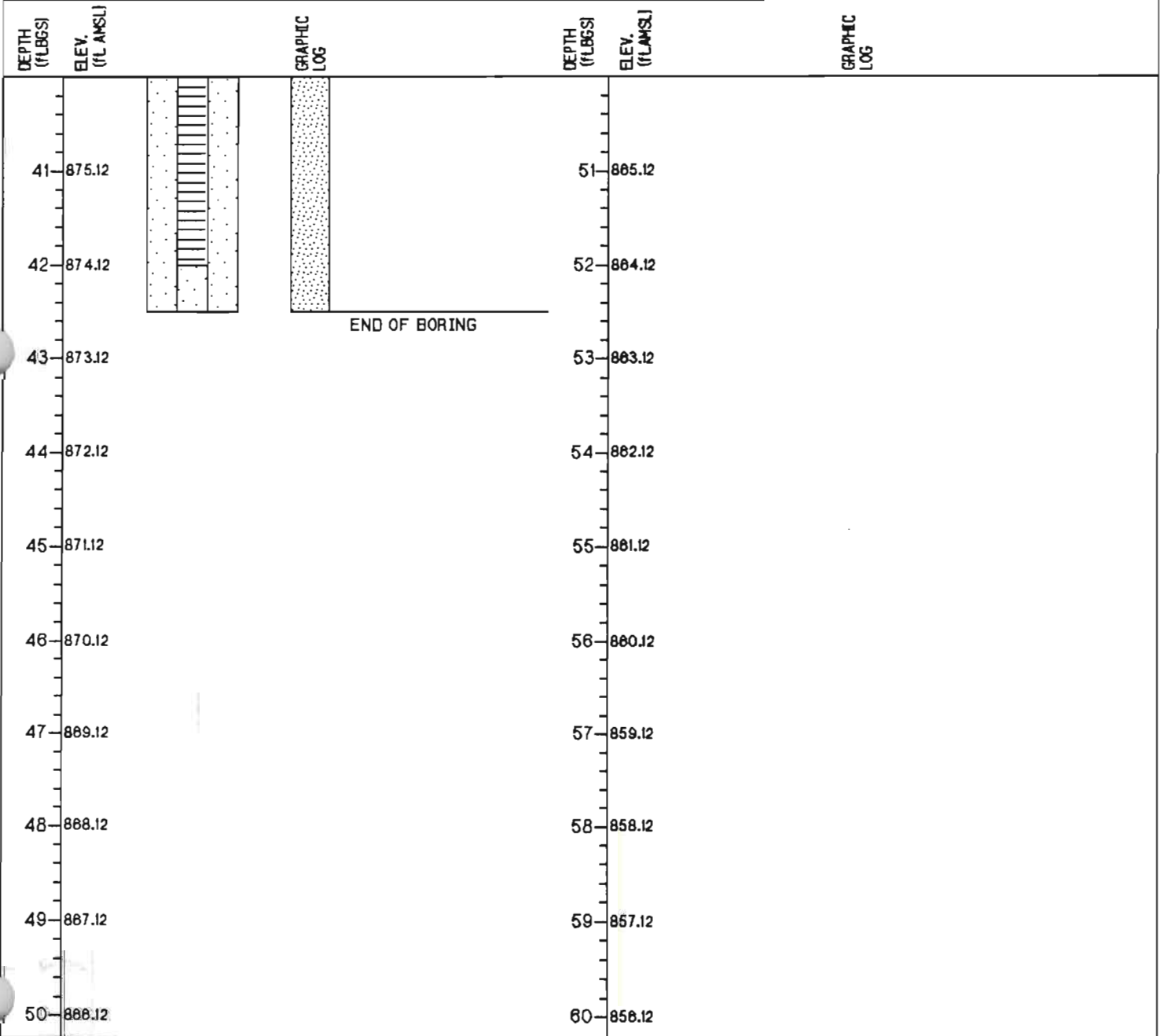
 2-INCH DIAMETER RISER
0 to 32.0 feet

 8-INCH DIAMETER BOREHOLE

 4-INCH DIAMETER BOREHOLE



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 0.5 ft. BGS.

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: 818.48ft.

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 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.	% 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	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	1.7	45							JHS=0.5 ppm
3	813.48	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	1.7	14							JHS=0.4 ppm
4	812.48			3 SS	8 7 7	1.7	14							JHS=0.4 ppm
5	811.48	STRATIFIED grayish brown moist GRAVELLY SAND, 40-80% mostly fine gravel, mostly coarse sand, loose, GP becoming compact at 10.0'		4 SS	8 7 3	0.8	10							JHS=0.8
6	810.48			4 SS	7 3 2	0.8	10							JHS=0.8 ppm
7	808.48			5 SS	4 3 8 8	0.8	8							JHS=0.7 ppm
8	808.48	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
9	807.48			6 SS	8 12 14 12	0.1	28							JHS=2.2 ppm
10	806.48			7 SS	5 4 5 8	1.3	8							JHS=0.3 ppm
11	805.48		7 SS	4 5 8	1.3	8							JHS=0.3 ppm	
12	804.48	Brown wet SAND, mostly fine, some very fine sand, loose, liquifies when disturbed, SP-SM	8 SS	4 3 4 4	1.0	7							JHS=0.3 ppm	
13	803.48		8 SS	3 4 4	1.0	7							JHS=0.3 ppm	
14	802.48		8 SS	3 4 4	1.0	7							JHS=0.3 ppm	
15	801.48	Brown wet mostly v.fine SAND, trace v.fine sand trace-little silt, liquifies when disturbed, loose, SP-SM	9 SS	3 4 5 5	1.8	8							JHS=0.3 ppm	
16	800.48		9 SS	3 4 5 5	1.8	8							JHS=0.3 ppm	
17	888.48	Brown wet SAND, trace-no silt, mostly medium sand, little fine, loose, SP	10 SS	8 4 5 7	1.2	8							JHS=0.1 ppm	
18	888.48		10 SS	8 4 5 7	1.2	8							JHS=0.1 ppm	
19	887.48	Brown wet SAND, trace-no silt, mostly medium sand, little fine, loose, SP	10 SS	8 4 5 7	1.2	8							JHS=0.1 ppm	
20	886.48		10 SS	8 4 5 7	1.2	8							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: 816.48ft.

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 HHU 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.		
21	885.48		[Dotted Pattern]	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	9					JHS=0.2 ppm
24	882.48			14 SS	7 8 8 7	1.5	12					JHS=0.2 ppm
25	881.48	Brownish gray wet SAND, trace-little silt, mostly fine sand, trace medium and very fine sand, compact, liquifies when disturbed, SM		15 SS	18 35 34	1.1	88					JHS=0.2 ppm
26	880.48			16 SS	5 5 8 8	1.1	11					JHS=0.1 ppm
27	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' becoming loose at 32'		17 SS	5 3 3 3	1.2	8					JHS=0.1 ppm
28	888.48			18 SS	3 4 5 8	1.1	9					JHS=0.1 ppm
29	887.48			19 SS	5 4 4 3	1.0	8					JHS=0.1 ppm
30	886.48			20 SS	4 3 4 5	1.1	7					JHS=0 ppm
31	885.48											
32	884.48											
33	883.48											
34	882.48											
35	881.48											
36	880.48											
37	878.48											
38	878.48											
39	877.48											
40	876.48											

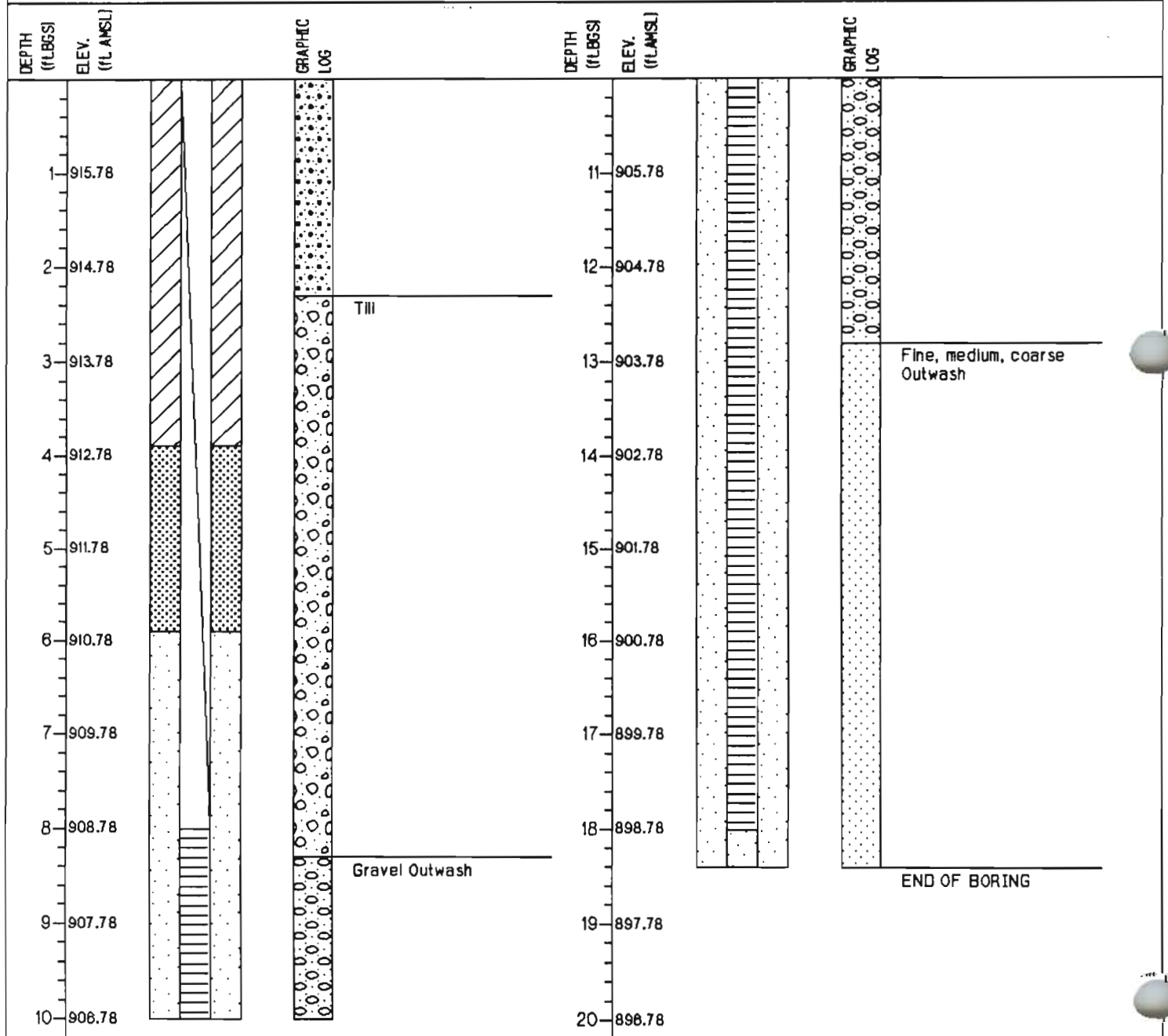
WELL/BOREHOLE MPI-5S CONSTRUCTION DETAILS

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

SYMBOLS AND DEFINITIONS

<p> BENTONITE-CEMENT BEAL 0 to 3.9 feet</p> <p> BENTONITE PELLET BEAL 3.9 to 5.9 feet</p> <p> MORIE #0 SAND PACK 5.9 to 16.4 feet</p> <p> 2-INCH DIAMETER BLOTTED (0.01")SCREEN 6.0 to 16.0 feet</p>	<p> 4-INCH DIAMETER CASING</p> <p> 2-INCH DIAMETER RISER 0 to 6.0 feet</p> <p> 6-INCH DIAMETER BOREHOLE</p> <p> 4-INCH DIAMETER BOREHOLE</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 6-in. diameter curb box extends to 0.7 ft. BGS.

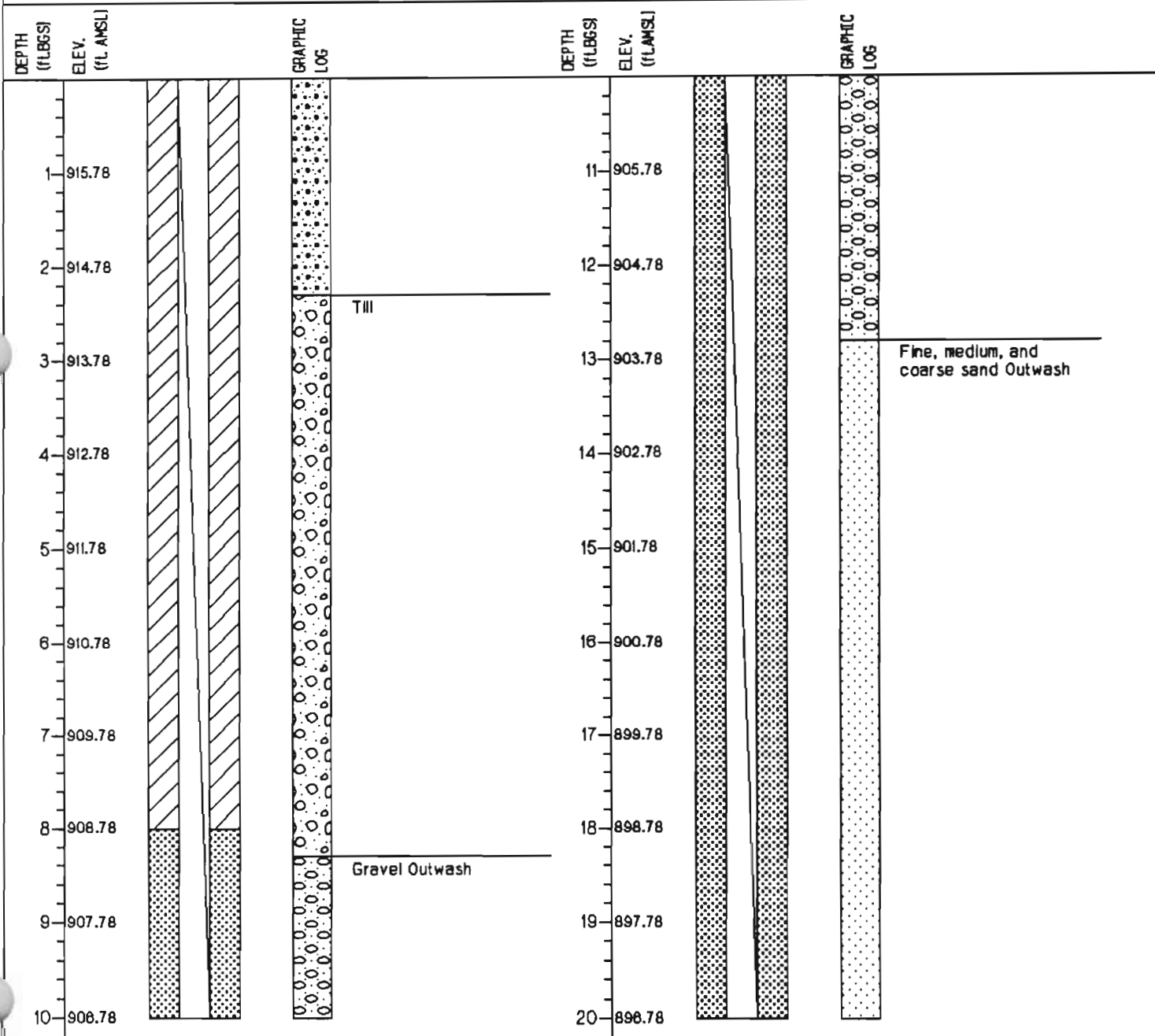
WELL/BOREHOLE MPI-5I CONSTRUCTION DETAILS

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: 3/94
 DRILLING METHOD: 8.25-inch ID HSA
 LOGGED/CHECKED BY: JMA/RHO
 SURFACE ELEVATION: 916.78ft.

SYMBOLS AND DEFINITIONS

- | | | |
|--|--|---|
| <p> BENTONITE-CEMENT BEAL
0 to 8.0 feet</p> <p> BENTONITE SLURRY BEAL
8.0 to 30 feet</p> <p> MORIE #00 SAND PACK
30 to 42.5 feet</p> <p> 2-INCH DIAMETER SLOTTED (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> 6-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> |
|--|--|---|












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

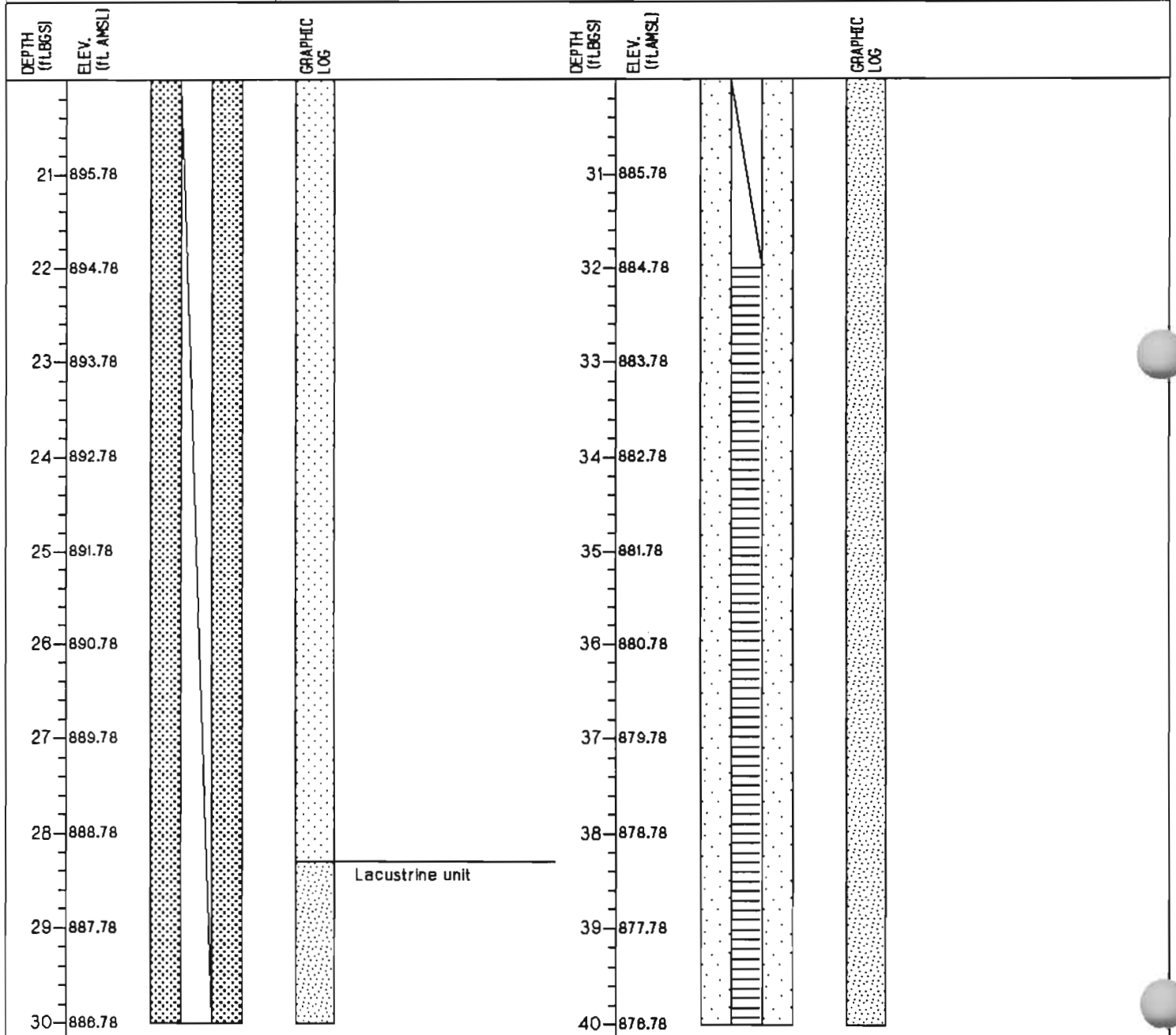
WELL/BOREHOLE MPI-5I CONSTRUCTION DETAILS

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  6-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 6-in. diameter curb box extends to 0.5 ft. BGS.

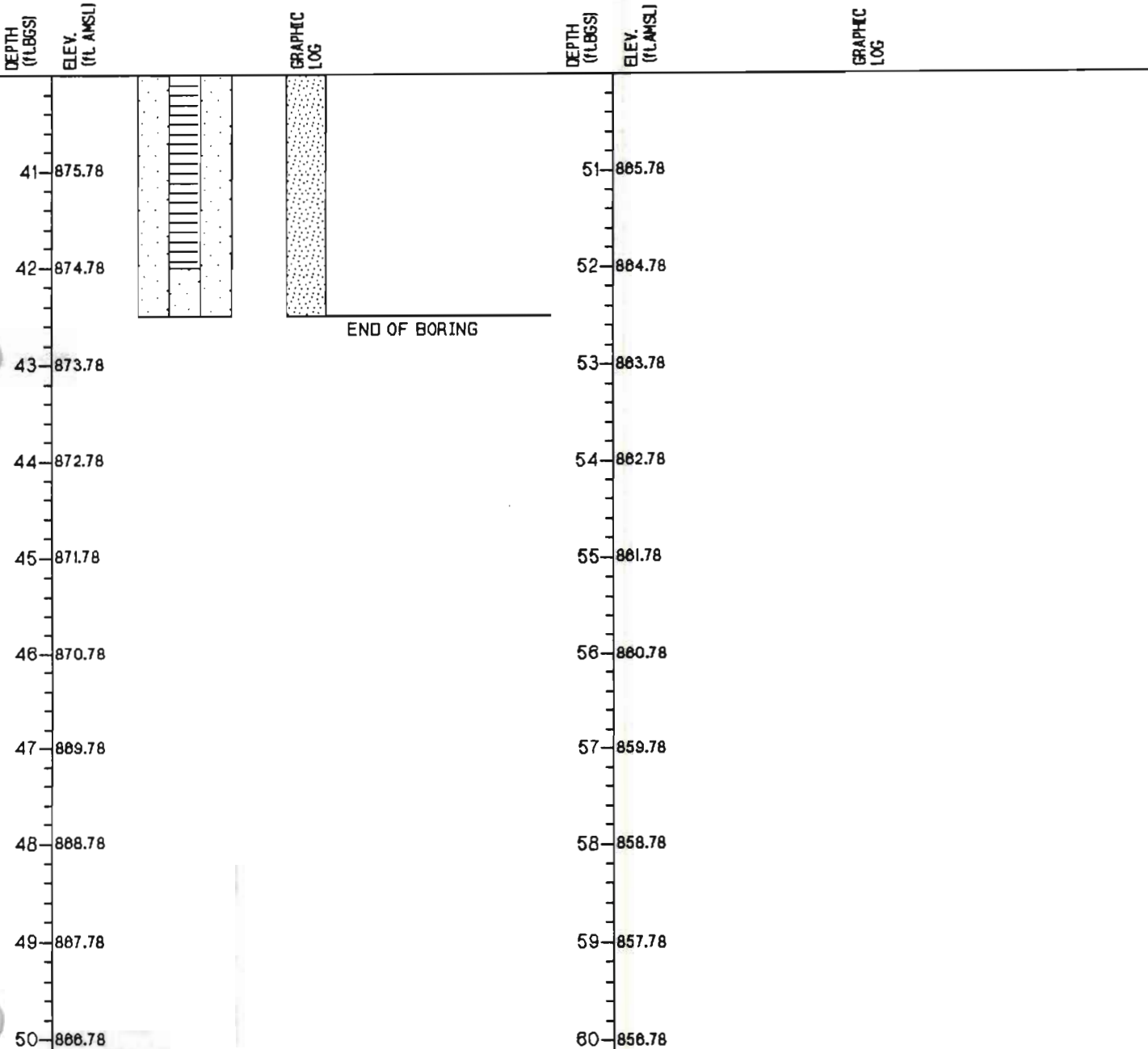
WELL/BOREHOLE MPI-5I CONSTRUCTION DETAILS

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: 918.78ft.

SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT SEAL 0 to 8.0 feet  BENTONITE SLURRY SEAL 8.0 to 30 feet  MORIE #00 SAND PACK 30 to 42.5 feet  2-INCH DIAMETER BLOTTED (0.008")SCREEN 32.0 to 42.0 feet  4-INCH DIAMETER CASING 0 feet  2-INCH DIAMETER RIBER 0 to 32.0 Feet  6-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 6-in. diameter curb box extends to 0.5 ft. BGS.

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: 815.35ft.

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 segers

z---z 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.		
1	814.35	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	813.35	Black moist SILTY SAND, little silt, trace gravel, little organic matter, compact, SM		4 8 4							JHS=0.3 ppm
3	812.35	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	811.35	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
5	810.35	TILL, brown moist CLAYEY SILT, little clay & sand, trace gravel & roots, root channels filled w/gray clay, hard, CL		3 5 4 8	0.5	8					JHS=0.2 ppm
6	808.35	STRATIFIED Brown ext moist to wet SILTY GRAVEL, some silt, little sand, mostly angular fine gravel, trace clay, loose, GM	4 SS	4 7 8 7	0.7	15					JHS=0.3 ppm
7	808.35	becoming wet at 8.0'									
8	807.35	LAMINATED, Brown moist SILTY SAND, some sand & silt, mostly fine sand, compact, SM		3 4 3 8	1.0	7					JHS=0.2 ppm
9	806.35	LAMINATED Brown moist SANDY SILT, w/clayey silt interbeds ~1" thick, sandy silt layers w/little clay, firm, loose, SM	8 SS	8 7 13 10	1.0	20					JHS=0.3 ppm
10	804.35	STRATIFIED Brownish gray wet medium SAND, little fine sand, little fine angular shale gravel, compact, SP	7 SS	3 5 7 11	1.2	12					JHS=1.8 ppm
11	803.35	Grayish brown wet SAND, mostly coarse, some medium sand, trace silt, little subangular and subrounded gravel, compact, SP	8 SS	3 8 13 18	1.1	21					JHS=13.4 ppm
12	802.35	STRATIFIED Brownish gray wet medium SAND, little fine sand, little fine angular shale gravel, compact, SP	7 SS	1 3 8 7	1.1	8					JHS=0.2 ppm
13	801.35	Gray wet SILTY SAND, little silt, mostly fine sand, little very fine sand, liquifies when disturbed, loose, SM	10 SS								
14	800.35										
15	898.35										
16	898.35										
17	897.35										
18	896.35										
19	895.35										

BOREHOLE LOG MPI-6S

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: 03/10/84
 DRILLING METHOD: 8.25-inch ID HSA
 LOGGED/CHECKED BY: JMA/RHO
 SURFACE ELEVATION: 915.35ft.

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
 GAB 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.		
21	884.35	Gray wet SILTY SAND, little silt, mostly fine sand, little very fine sand, liquifies when disturbed, loose, SM		11 SS	1 2 5 5	1.0	7				JHS=112 ppm
22	883.35										JHS=0.3 ppm
23	882.35			12 SS	1 2 8 7	1.0	8				
24	881.35	----- Sampled to 24', with augers at 23'. Set Well									
25	880.35										
26	888.35										
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	878.35										
37	878.35										
38	877.35										
39	878.35										
40	875.35										

BOREHOLE LOG MPI-7D

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

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 cages

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 / Ø"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RGD.				
1	915.87	Augered to 1.0' through pavement and hard fill		1 SS	19 22	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	8 10	1.2	20							JHS=7.0 ppm			
3	913.87				10 10											JHS=4.2 ppm	
4	912.87	Brown moist CLAYEY SILTY GRAVEL, some sand, 40-80% gravel, trace brick remnants, loose, GM		3 SS	43 16	0.2	28							JHS=16.8			
5	911.87				12 11											JHS=2.9 ppm	
6	910.87				2 2			0.2	4								JHS=18.8 ppm
7	909.87				2 2												
8	908.87	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 5	0.2	9							JHS=1.2 ppm			
9	907.87				4 4											JHS=0.8 ppm	
10	906.87	becoming loose at 14.0'		6 SS	8 8	1.0	19							JHS=3.4 ppm			
11	905.87		10 12													JHS=1.2 ppm	
12	904.87	becoming compact at 16.0'	7 SS	5 6	0.6	13							JHS=0.8 ppm				
13	903.87			7 5												JHS=3.4 ppm	
14	902.87	STRATIFIED Brown moist SILTY SAND, some silt, 25-40% gravel, mostly subangular gravel, compact, SM	8 SS	4 3	0.7	5							JHS=3.4 ppm				
15	901.87			2 4												JHS=3.4 ppm	
16	900.87	Brown wet SILTY GRAVEL, with little sand, little silt, compact, loose when disturbed, GM	9 SS	4 6	0.8	14							JHS=3.4 ppm				
17	899.87			6 6												JHS=3.4 ppm	
18	898.87	Brown wet SILTY GRAVEL, with little sand, little silt, compact, loose when disturbed, GM	10 SS	6 6	0.3	10							JHS=3.4 ppm				
19	897.87			4 6												JHS=3.4 ppm	
20	896.87																

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: 02/28/94
 DRILLING METHOD: 4.25-Inch ID HSA
 LOGGED/CHECKED BY: JMA/RHO
 SURFACE ELEVATION: 918.87ft.

SYMBOLS AND DEFINITIONS

88 Split Spoon (2in.ID)
 883 Split Spoon (3in.ID)
 8T 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 gases

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" 8	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% RGD.				
21	895.87	STRATIFIED brown wet SILTY GRAVEL, with some medium and coarse sand, 40-60% gravel, little silt, compact, loose when disturbed, GM		11 SS	4 8 8 7	0.8	14						JHS=1.8 ppm		
22	894.87													JHS=2.0 ppm	
23	893.87			occasional sandstone cobble	12 SS	12 12 9 9	0.5	21							JHS=0.9 ppm
24	892.87														JHS=0.2 ppm
25	891.87			13 SS	13 9 8 8	0.8	17							JHS=0.2 ppm	
26	890.87													JHS=0.1 ppm	
27	889.87	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														JHS=0.2 ppm
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	886.87	Gray wet SILTY SAND, with little silt, mostly fine sand, compact, liquifies when disturbed, SM		16 SS	7 8 7 7	0.3	18							JHS=0.1 ppm	
31	885.87														JHS=0.1 ppm
32	884.87			becoming loose at 32.0'											JHS=0.3 ppm
33	883.87					17 SS	3 3 3 4	2.0	8						JHS=0.1 ppm
34	882.87												JHS=0.1 ppm		
35	881.87			18 SS	4 3 3 3	2.0	8						JHS=0.3 ppm		
36	880.87												JHS=0.1 ppm		
37	879.87			19 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		20 SS	3 2 3 5	2.0	5							JHS=0.1 ppm	
39	877.87	Gray wet SILTY SAND, some silt, mostly very fine sand, loose, liquifies when disturbed, SM													
40	876.87														

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

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

JHG HNU reading in jar headspace
 GAB 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	SOIL DATA				ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)			
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (ft)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.			% REC.	% ROD.	
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	SS	3	2.0	5				JHS=0.2 ppm		
42	874.87					2						JHS=0.1 ppm		
43	873.87			Gray moist CLAYEY SILT, with little-some clay, firm, CL		22	SS	1	2.0	5				JHS=0.1 ppm
44	872.87							2						JHS=0.1 ppm
45	871.87	Gray wet SILTY SAND, some silt, mostly very fine sand, loose, liquifies when disturbed, SM		23	SS	1	2.0	5				JHS=0.1 ppm		
46	870.87	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		24	SS	2	2.0	8				JHS=0		
47	868.87					4						JHS=0.1 ppm		
48	868.87			thicker Clayey Silt lenses ~1" thick one thicker Sand lense ~1" thick			7						JHS=0.1 ppm	
49	867.87	Gray wet SAND, mostly medium sand, trace fine, loose, liquifies when disturbed, SP-SM		25	SS	3	2.0	9				JHS=0.1 ppm		
50	866.87	Gray extremely moist SANDY SILT, with thin layers of clayey sandy silt ~1/8" thick, loose, SM		26	SS	4	2.0	9				JHS=0.1 ppm		
51	865.87					5						JHS=0.1 ppm		
52	864.87	Gray extremely moist SILTY CLAY, with some silt, occasional very thin sand lenses, stiff, CL		27	SS	3	2.0	12				JHS=0.1 ppm		
53	863.87	Gray wet SAND, mostly fine, trace medium, little very fine sand, compact, SP		28	SS	4	2.0	11				JHS=0.1 ppm		
54	862.87					5						JHS=0.1 ppm		
55	861.87	Gray alternating layers of extremely moist SILTY SAND and SANDY SILT, with thin clay layers ~1/8" thick, stiff, SM and ML		29	SS	3	2.0	10				JHS=0.1 ppm		
56	860.87					4						JHS=0.1 ppm		
57	859.87	Gray extremely moist SILTY CLAY, with some silt, stiff, CL		29	SS	3	2.0	10				JHS=0.1 ppm		
58	858.87					8						JHS=0.1 ppm		
59	857.87	Boring complete at 60' with augers at 58'. Grouted hole with cement/bentonite grout at completion.		ST			2.0							
60	858.87													

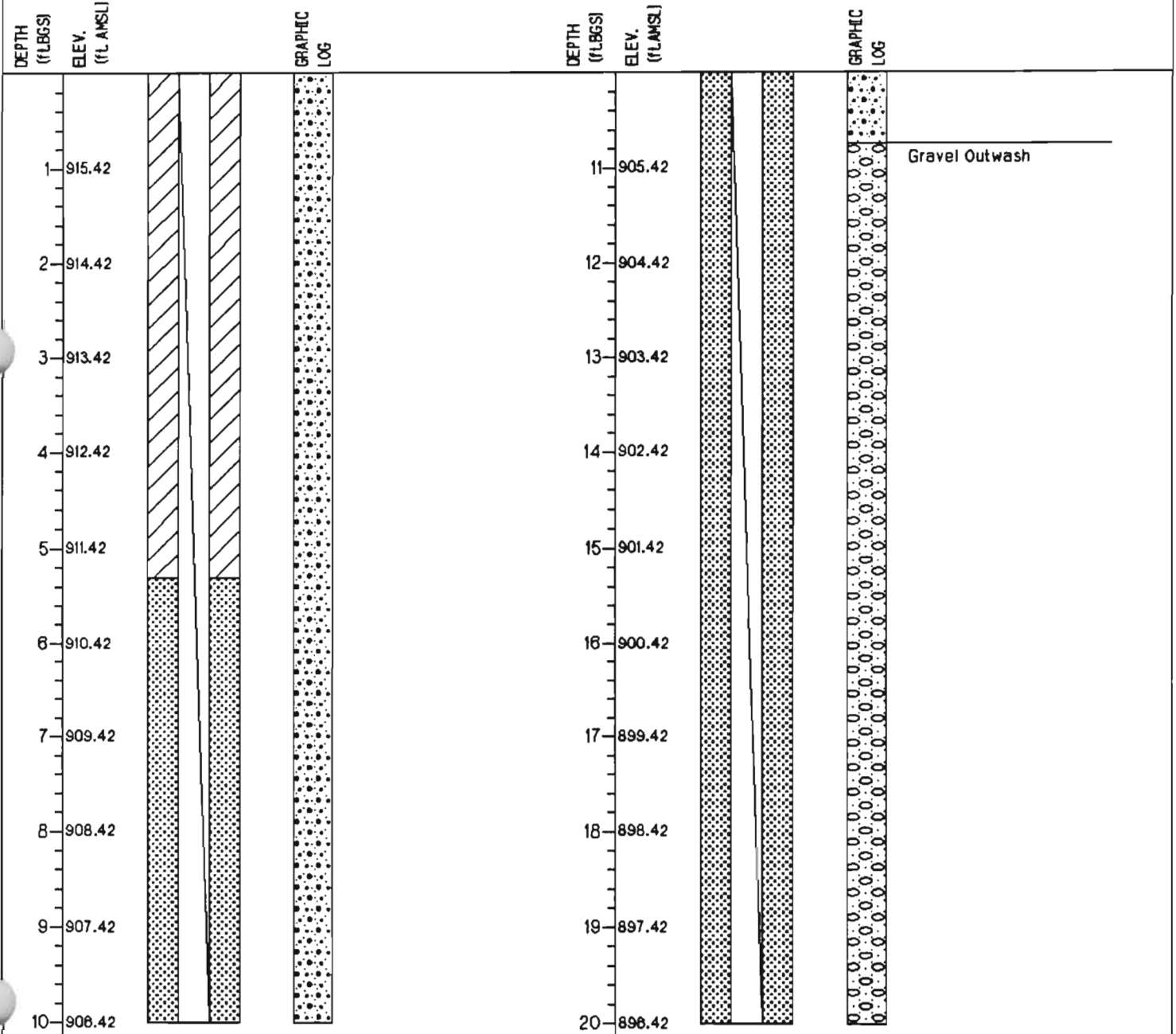
WELL/BOREHOLE MPI-7I CONSTRUCTION DETAILS

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

- | | | |
|--|--|---|
| <p> BENTONITE-CEMENT SEAL
0 to 5.3 feet</p> <p> BENTONITE SLURRY SEAL
5.3 to 27.1 feet</p> <p> MORIE #00 SAND PACK
27.1 to 40 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 RIBER
0 to 20.5 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-7D
for a
complete
description</p> |
|--|--|---|











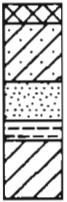
NOTES: 1. 0.7 FT. long by 8-in. diameter curb box extends to 0.5 ft. BGS.

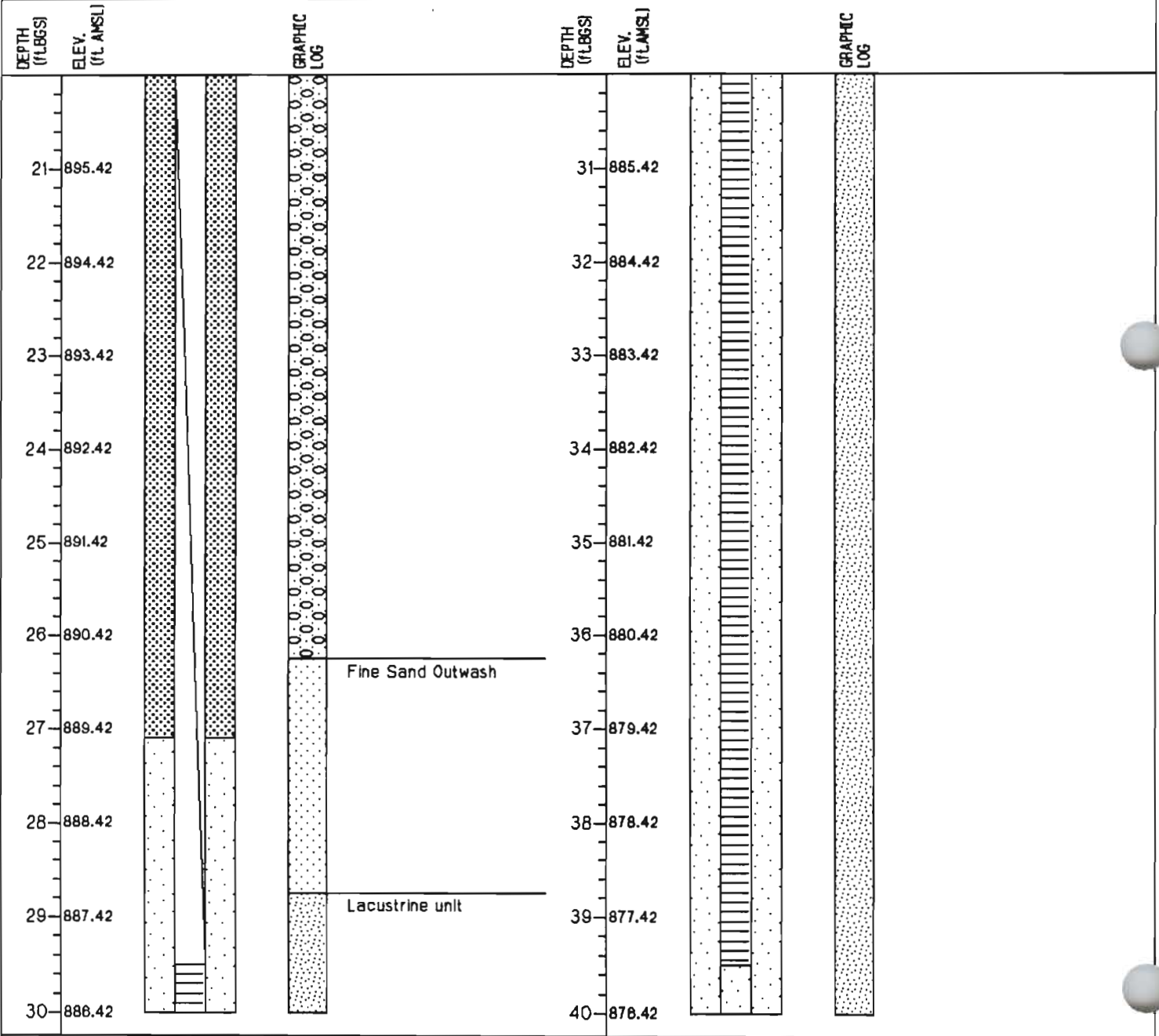
WELL/BOREHOLE MPI-7I CONSTRUCTION DETAILS

PROJECT: MR C CLEANERS
 PROJECT NO.: 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: 918.42ft.

SYMBOLS AND DEFINITIONS

 BENTONITE-CEMENT BEAL 0 to 5.3 feet  BENTONITE SLURRY BEAL 5.3 to 27.1 feet  MORIE #00 SAND PACK 27.1 to 40 feet  2-INCH DIAMETER BLOTTED (0.006" MESH) SCREEN 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
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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-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: 815.01ft.

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 HWU reading in jar headspace
 GAS Combustible Gas reading in seeps

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.		
1	814.01	Augered 1' through asphalt, pavement, and concrete		1 SS	4	0.7					JHS=0.8 ppm
2	813.01	FILL dark brown moist CLAY and SILT, little coarse sand and fine gravel, CL			4						JHS=1.3 ppm
3	812.01	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	811.01	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	8 10 12	0.5	22				JHS=1.1 ppm
5	810.01	TILL, SILTY SANDY GRAVEL, to 3/4" diameter, little-some brown-orange silt and fine-medium sand. compact, GM			13 8 9	0.8	18				JHS=5.8 ppm
6	809.01	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		4 SS	3 4 4	1.2	8				JHS=2.2 ppm
7	808.01	SILT light brown, bedded laminae, trace sand, moist, stiff			4 4 4	1.1	8				JHS=0.4 ppm
8	807.01	GRAVEL, to 1/4" diameter, little fine-medium sand, trace-little silt, loose, GM		6 SS	3 3 5	1.4	8				JHS=3.4 ppm
9	806.01	Wet SILTY SAND, w/little silt, heavily stained iron/siderite contact with laminae very fine-medium sand, liquefies when disturbed, loose, SM		7 SS	2 4 5	1.1	8				JHS=3.2 ppm
10	805.01	Dark gray wet SAND, mostly medium, fine-course sand, well drained, loose, w/very fine grained laminae as bedding fabric, loose, SP		8 SS	2 3 3 4	1.0	8				JHS=8.2 ppm
11	804.01	Dark gray wet SAND, very fine-fine sand, trace silt as thin laminated bedding fabric, loose, SM		9 SS	1 2 5	1.1	7				
12	803.01										
13	802.01										
14	801.01										
15	800.01										
16	899.01										
17	898.01										
18	897.01										
19	896.01										
20	895.01	Boring complete at 20'. Set well		10 SS	5						

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: 915.24ft.

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 HHU reading in jar headspace
 GAB 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.		
1	914.24	Advanced augers through asphalt and concrete to 1' prior to sampling		1 SS	3	1.0						JHS=0.2 ppm
2	913.24	Dark brown moist SILTY SAND, w/ fine, medium, coarse sand, little silt, little-some shale clasts as gravel, trace clay, SM		2 SS	4	0.5	5					JHS=0.7 ppm
3	912.24	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		3 SS	2	0.5	5					JHS=0.9 ppm
4	911.24	Brown moist SILTY SAND, little silt, medium-course sand, little subround gravel to 1/2" diameter, loose w/cobbles > 3", SP-SM		3 SS	3	0.7	18					JHS=0.4 ppm
5	910.24			3 SS	8	0.7	18					
6	908.24			3 SS	8	0.7	18					
7	908.24	GRAVEL and SAND with Cobbles > 3"		4 SS	12	0.2	18					JHS=1.2 ppm
8	907.24			4 SS	8	0.2	18					
9	908.24	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	3	1.1	11					JHS=1.0 ppm
10	905.24			5 SS	5	1.1	11					
11	904.24	Wet GRAVEL and SAND, loose when disturbed		6 SS	2	1.2	13					JHS=0.8 ppm
12	903.24			6 SS	6	1.2	13					
13	902.24	Light orange to brown wet SANDY SILT, little-some gravel, trace clay, grading to coarse gray sand at 13.1'		7 SS	18	1.3	23					JHS=1.6 ppm
14	901.24			7 SS	14	1.3	23					
15	900.24	Grayish brown wet SAND, mostly medium, trace coarse, some bedding fabric as sorted laminae, loose, SP		8 SS	4	1.6	7					JHS=1.6 ppm
16	898.24			8 SS	3	1.6	7					
17	898.24	Gray wet SAND, mostly medium, trace coarse, loose, SP		8 SS	1	1.3	8					JHS=1.6 ppm
18	898.24			8 SS	3	1.3	8					
19	897.24	Gray wet SAND, mostly medium, trace coarse, fine subrounded gravel to 1/2" diameter, loose, SP		8 SS	6	1.3	8					JHS=1.8 ppm
20	895.24	Grayish brown wet SAND, mostly medium, trace coarse, subrounded gravel to 1/2" dia., unsorted, loose, SP		10 SS	2	1.1	4					JHS=1.8 ppm
		Boring complete at 20'. Set well		10 SS	2	1.1	4					
				5								

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: 918.0711 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
 NR No Recovery
 - Sampler Refusal

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

x---x Penetration Resistance ('N' Blows/10 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.	% 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			3 SS	2 3 3 5	0.5	8						JHS=0.9 ppm
4	912.07	Brown moist GRAVELLY CLAYEY SILT, some fine - coarse sand, little silt, little clay, little gravel, loose, CL		4 SS	2 3 4 4	1.1	7						JHS=0 ppm
5	911.07			5 SS	2 3 4 4	1.0	7						JHS=0.3 ppm
6	910.07			6 SS	2 4 3 4	0.8	7						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		7 SS	3 3 4 8	1.1	7						JHS=0.8 ppm
8	908.07			8 SS	2 2 3 3	1.0	5						JHS=8.0 ppm
9	907.07	STRATIFIED, Brown wet SAND, mostly fine and medium, trace coarse trace silt, loose when disturbed, loose, stratified, SP Occasional gravel		9 SS	4 4 8 8	1.3	12						JHS=7.2 ppm
10	906.07			10 SS	2 3 4 4	1.0	7						JHS=8.2 ppm
11	905.07	Brown wet SAND, mostly fine size sand, trace medium and coarse sand, liquifies when disturbed, loose, (running sands), SP											
12	904.07												
13	903.07	Brown wet SILTY SAND, mostly very fine with occasional finer stratifications, liquifies when disturbed, firm, SP-SM											
14	902.07												
15	901.07												
16	900.07												
17	899.07												
18	898.07												
19	897.07												
20	896.07												

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: 818.07 ft. ABOVE NGVD

SYMBOLS AND DEFINITIONS

86 Split Spoon (2in.ID)
 863 Split Spoon (3in.ID)
 8T 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 ('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.			% RQD.	
21	895.07	Brown wet SAND, mostly fine size sand, little medium sand, trace silt, liquifies when disturbed, loose, SP	[Dotted Pattern]	11 SS	1 2 3 7	1.1	5						JHS=11.0 ppm	
22	894.07				12 SS	8 8 7 7	1.0	13						JHS=12.8 ppm
23	893.07			more numerous fine sand stratifications, firm		13 SS	4 5 8 9	0.8	11					
24	892.07	Brown wet SAND, fine, medium & coarse sand, little gravel, (increasing amount of silt in bottom of spoon), firm, SP	[Dotted Pattern]	14 SS	2 2 3 10	1.0	5						JHS=4.8	
25	891.07				15 SS	2 2 3 10	1.5	5						JHS=3.4 ppm
26	890.07	Brown wet SAND, mostly fine, little medium sand, trace silt, occasional fine sand lenses up to .03' in length, loose, SP	[Dotted Pattern]	16 SS	2 3 8 10	0.8	8						JHS=2.3 ppm	
27	889.07													
28	888.07	Brown wet SAND, mostly fine, little medium, trace silt, loose, SP	[Dotted Pattern]											
29	887.07													
30	886.07	LAMINATED, Fine sand lenses at 30.8 and 30.7 (.5" - .75" in length)	[Dotted Pattern]											
31	885.07													
32	884.07	Brown wet SANDY SILT, liquifies when disturbed, loose	[Dotted Pattern]											
33	883.07	Boring complete at 32'. Installed well.												
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.: 0208-31-4
 LOCATION: EAST AURORA, NEW YORK
 SURVEY COORDINATES:
 SURVEY DATUM:

CLIENT: NYSDEC
 DRILLING DATES: 12/27/94
 DRILLING METHOD: 8-1/4" HSA
 LOGGED/CHECKED BY: RHO
 SURFACE ELEVATION: 813.581 FT. ABOVE NGVD

SYMBOLS AND DEFINITIONS

66 6plH Spoon (2in.ID)
 863 6plH 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
 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	SOIL DATA				ROCK DATA			WELL DIAGRAM	COMMENTS (USCS)		
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8"	RECOVERY (m)	'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								JHS= ppm
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	809.58	Brown moist SILT AND SAND, some gravel, gravel is fragments of black shale, greengray siltstone, loose, SM		3 SS	3	1.5	8						JHS= ppm
5	808.58	Brown wet SILT AND fine SAND, some gravel, gravel fragments of black shale, greengray siltstone, weathered, loose, SM		4 SS	2	0.7	4						JHS= ppm
6	807.58	STRATIFIED Brown wet SAND, mostly fine sand, liquifies when disturbed, loose, SP		5 SS	WH	0.8	4						JHS= ppm
7	806.58	Brown wet GRAVEL, mostly rounded gravel in a fine sand matrix, loose, GP		6 SS	8	0.5	15						JHS= ppm
8	805.58	Brown wet GRAVEL, mostly med size gravel, rounded, trace shale, some silt and fine sand, firm, GM		7 SS	48	1.0	54						JHS= ppm
9	804.58	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	4	0.8	8						JHS= ppm
10	803.58	Brown wet SAND & GRAVEL, fine-medium gravel, medium-coarse sand, trace silt, gravel-well rounded & well washed, loose, SW or GW		9 SS	7	1.8	15						JHS= ppm
11	802.58	Brown wet SAND, medium-coarse sand, trace fine sand, little fine gravel, trace medium gravel, trace silt, gravel-well rounded & well washed, firm, SW		10 SS	17	1.2	22						JHS= ppm
12	801.58	Brown wet GRAVELLY SAND, medium-coarse sand, some fine-medium gravel, trace fine sand, thin stratified medium sand layers, firm, SW			12								JHS= ppm
13	800.58				10								JHS= ppm
14	899.58				12								JHS= ppm
15	898.58				10								JHS= ppm
16	897.58				12								JHS= ppm
17	896.58				10								JHS= ppm
18	895.58				12								JHS= ppm
19	894.58				10								JHS= ppm
20	893.58				12								JHS= ppm

BOREHOLE LOG MPI-11B

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

CLIENT: NYSDEC
 DRILLING DATES: 12/27/94
 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
 GAB 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.	% ROD.
21	892.58	Brown wet SANDY SILT, some fine sand, firm, ML	[Graphic Log Pattern]	11 SS	4 8 5 8	0.8	11					JHS= ppm	
22	891.58	Black SHALE FRAGMENTS											JHS= ppm
23	890.58	Brown wet SAND, mostly fine sand, trace to little silt, lliquifies when disturbed, loose, SP-SM		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		13 SS	WR								JHS= ppm
25	888.58				1	1.0	3						JHS= ppm
26	887.58				2 3								JHS= ppm
27	886.58	LAMINATED, Gray wet SILT and SAND, mostly very fine, lliquifies when disturbed, loose, SM		14 SS	3 3 4 7	1.5	7						JHS= ppm
28	885.58	Gray wet SAND, mostly medium, little fine, loose, SP		15 SS	WR								JHS= ppm
29	884.58				3 4 3	1.0	7						JHS= ppm
30	883.58	Gray wet SAND, mostly fine sand, little silt, loose, SM											JHS= ppm
31	882.58	Gray wet SILT and very fine SAND, loose, ML											
32	881.58	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: 6-1/4" HSA
 LOGGED/CHECKED BY: RHO
 SURFACE ELEVATION: 911.44ft.FT. ABOVE NGVD

SYMBOLS AND DEFINITIONS

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

JHS 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	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)	
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 8" 8	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RGD.
1	910.44	FILL, Asphalt, subbase, gravel, sand to cobbles in cuttings firm		1 SS	5 8 8	0.7	12						JHS=0 ppm
2	909.44												
3	908.44	Silty fine sand, slightly moist		2 SS	4 5 8 8	0.7	11						JHS=0 ppm
4	907.44												
5	906.44	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
6	905.44												
7	904.44	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
8	903.44												
9	902.44	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=7.0 ppm
10	901.44												
11	900.44			6 SS	1 3 5 3	0.3	8						JHS=5.5 ppm
12	899.44												
13	898.44	Brown wet SAND & GRAVEL, little silt, firm, SM or GM		7 SS	5 8 5 5	1.0	11						JHS=7.8 ppm
14	897.44												
15	896.44	Brown wet SANDY GRAVEL, little medium to coarse sand, loose, GW		8 SS	2 3 3 4	0.7	8						JHS=4.5 ppm
16	895.44												
17	894.44	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	7 5 7 7	1.0	12						JHS=1.0 ppm
18	893.44												
19	892.44	Brown wet SANDY GRAVEL, some fine to medium sand, cobbles to fine gravel, trace silt, firm, GW		10 SS	5 8 13 8	1.0	18						JHS=1.0 ppm
20	891.44												

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: 911.44ft.FT. ABOVE NGVD

SYMBOLS AND DEFINITIONS

SS Split Spoon (2in.ID)
 BSS 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 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.			
21	890.44	no recovery		11 SS	2 5 7 11	1.0	12						JHS=0.3 ppm	
22	889.44													JHS=0.6 ppm
23	888.44			12 SS	17 27 10 11	0.8	37							JHS=0 ppm
24	887.44													
25	886.44	Brown wet SAND and GRAVEL, fine gravel, coarse sand, some fine sand trace silt, firm, SW or GW		13 SS	3 9 10 11	NR	18							
26	885.44													
27	884.44			14 SS	12 8 8 10	0.5	12							JHS=0.4 ppm
28	883.44	Becoming Gray at 32.5'		15 SS	3 3 7 8	0.5	10							
29	882.44													JHS=0.3 ppm
30	881.44													JHS=0.2 ppm
31	880.44	Gray wet, fine SAND, some fine gravel and medium sand, trace to little silt, loose, SM		16 SS	4 7 8 7	0.5	18							
32	878.44													JHS=0.1 ppm
33	878.44	LAMINATED, brownish gray wet SILTY CLAY, some silt, occasional round gravel, consistence, CL		17 SS	7 8 9 7	1.0	18							
34	877.44													JHS=0 ppm
35	876.44			18 SS	3 8 4 3	0.3	10							
36	875.44	Boring complete at 38'. Installed well to 35.0 feet.		19 SS	3 3 4 5	0.7	7							
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: 8-1/4" HSA
 LOGGED/CHECKED BY: JMA/RHO
 SURFACE ELEVATION: 913.88ft. 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.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.		
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	1	1.3	8						JHS=0 ppm
3	910.88			3								
4	909.88	TILL, yellowish brown moist CLAYEY SANDY SILT, little f-c sand, trace clay & gravel, trace roots, blocky, loose, ML	2 SS	2	1.3	12						JHS=0.3 ppm
5	908.88			5								
6	907.88	Brown w/gray mottling moist CLAYEY SILT, w/15-25% mostly shale gravel, massive, medium consistence, CL	3 SS	7	0.9	10						JHS=0.4 ppm
7	906.88			5								
8	905.88	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	WR	0.8	2						JHS=0.2 ppm
9	904.88			1								
10	903.88	STRATIFIED, Brown wet SAND, mostly coarse sand, little med. sand, trace-little silt & grav, loose when disturbed, loose, SP-SM	5 SS	WR	0.7	3						JHS=0.1 ppm
11	902.88			1								
12	901.88	LAMINATED, brown wet SAND, mostly very fine and fine sand, trace-little silt, liquifies when disturbed, loose, SP-SM	6 SS	2	1.4	7						JHS=0.1 ppm
13	900.88			4								
14	899.88	Gray wet CLAYEY SILT, w/some v. fine & fine sand, CL	7 SS	3	0.9	3						JHS=0.1 ppm
15	898.88			1								
16	897.88	Gray wet SANDY SILT, some v. fine & fine sand, 2 clay seams @ 14.3' & 18.1', liq. when dist, loose, ML	8 SS	2	0.2	20						JHS=0.1 ppm
17	896.88			10								
18	895.88	STRAT. Brown wet GRAV. coarse SAND, trace silt, some grav, loose when dist, firm, SP	9 SS	10	1.2	12						JHS=0.1 ppm
19	894.88			2								
20	893.88	Brown wet GRAV SAND, 1-c sand, some grav, trace silt, loose when dist, loose, SW		4								

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: 8-1/4" HSA
 LOGGED/CHECKED BY: JMA/RHO
 SURFACE ELEVATION: 913.88ft. 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. 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.		
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
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
27	886.88											
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
29	884.88											
30	883.88		(1.4)	15 SS	5 8 5 8	1.4	11					JHS=0
31	882.88											
32	881.88		(0.3)	18 SS	WR 1 2	0.3	<2					JHS=0
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.: 0200-31-4
 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: 913.48ft. 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 ('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 / 8"	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.		
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			2								
7	908.49	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
8	905.49			2								
9	904.49			3								
10	903.49	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
11	902.49			4								
12	901.49	STRATIFIED, Brown wet SILTY SAND, liquifies when disturbed, grades to drier silt, loose, SM	5 SS	3	1.2	12						JHS=0.5 ppm
13	900.49			8								
14	900.49			8								
15	899.49	Brown wet GRAVEL and SAND, trace to little silt, fine to coarse sand, loose when disturbed, loose, SW or GW	6 SS	8	1.4	14						JHS=0.3 ppm
16	899.49			8								
17	898.49	Brown wet SAND, mostly very fine to fine sand, trace silt, firm, SP	7 SS	2	0.3	9						JHS=0.2 ppm
18	898.49			3								
19	897.49	Brown wet SAND, mostly fine sand, loose when disturbed, firm, SP	8 SS	8	1.2	10						JHS=1.0 ppm
20	897.49			8								
21	896.49			5								
22	895.49	Brown wet SAND, mostly medium and fine sand, loose when disturbed, loose, SP	9 SS	2	1.2	8						JHS=0.9 ppm
23	894.49			4								
24	893.49	4										

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: 1/11/85
 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)
 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. 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.		
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=0.1 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		o									
28	885.49	Gray wet SILTY SAND, little silt, very fine and fine sand, liquifies when disturbed, loose, SM	o	14 SS	1 1 3 2	1.0	4					JHS=0 ppm
29	884.49	Gray wet SILTY SAND, w/little to some silt, very fine sand liquifies when disturbed, loose, SM	o									
30	883.49	Boring complete at 30'. Installed well.										
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											

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 ('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 / Ø"	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
5	-5	Brown extremely moist SANDY GRAVEL W/SILT, little silt, loose, GM	○●○●	4 SS	3 3 3 2	1.0	8						JHS=200 ppm SSLA
6	-6	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
7	-7		○●○●	8 SS	2 2 4 4	1.0	8						
8	-8												
9	-9												
10	-10												
11	-11												
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.: 0200-31-4
 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:

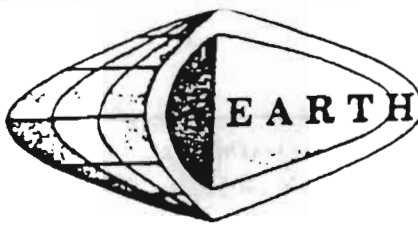
SYMBOLS AND DEFINITIONS

66 Split Spoon (2in.ID)
 663 Split Spoon (3in.ID)
 ST Shelby Tube (2.6in.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 / Ø*	RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.			% RGD.
1	-1	FILL, Asphalt to 0.5 feet	●●●●		-								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	STRATIFIED Brown moist GRAVELLY SAND, w/15-40% gravel, mostly coarse sand, little medium, trace silt, loose, SP	●●●●	5 SS	9 5 5 5	0.7	10						
7	-7												
8	-8												
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 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
		0	6	12	18	N			
1	1	100	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 2.0	Cement bentonite grout	Mostly sand and gravel fill with concrete debris with little silt to 2.0 feet over silty possible soil fill with some gravel to 4.0 feet over either water sorted and deposited or fill consisting of silt with some gravel, little sand to 10.0 feet over water sorted and deposited sand to end of boring.
		32				46			
				14					
					6				
2	5						Moist highly mottled olive brown shaly (CLAYEY-SILT) with 15 to 40% mostly flat, sharp edged shale fragments, very stiff, possible fill 4.0	Two (2) inch inside diameter PVC riser pipe	(1)
						23			
						13			
						31			
3	11						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 10.0	Two (2) inch slotted screen	12.0
						23			
5				14					
					9				
						7			
4	4						Wet black to 10.5 feet, distinctly mottled olive brown below, (SAND), fine to coarse size sand, trace silt, loose, thinly bedded 12.0	#2 size sand	(1) Bentonite seal. WH-Sampler penetration with weight of rods and hammer.
						12			
						6			
						6			
						3			
5	2								
						3			
						6			
10	6	1					Wet gray (SAND), fine to medium size, loose, thinly bedded	#2 size sand	Continued on sheet 2.
						4			
						3			
						9			
						6			
						5			
7	WH								
						4			
						4			
						2			
8	1								
						2			
15									
						2			
						4			
						5			
9	WH								
						2			
						3			
						5			
10	2								
						4			
						5			
						9			
0						5			

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 1 OF 2



EARTH DIMENSIONS, INC.

Soil Investigations and Natural Resource Assessments

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

SURF. ELEV. _____

PROJECT	<u>Monitoring well installation</u>	LOCATION	<u>North side of station</u>
4F88	<u>Agway Petroleum Station, East Aurora, NY</u>		
FR82		DATE STARTED	<u>6/20/88</u>
CLIENT	<u>AGWAY PETROLEUM CORPORATION</u>	COMPLETED	<u>6/20/88</u>

DEPTH feet	SAMPLE NO.	BLOWS ON SAMPLER				DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
		0-2	2-4	4-6	6-8			
	1	2				Wet gray (SAND), fine to medium size, loose, thinly bedded 22.0	(1) (2)	22.0
		2			6			
			4					
				5				
						Boring completed at 22.0 feet.	(1) Two (2) inch PVC slotted screen, #10. (2) #2 size sand.	
25							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.	
30								
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
 LOCATION Bulk Plant
 East Aurora, New York
 DATE STARTED 5/1/84 DATE COMPLETED 5/1/84

HOLE NO. 5-2 (MW-2)
 SURF EL.
 JOB NO. 8461
 GROUND WATER DEPTH WHILE-DRILLING 10.0'
 BEFORE CASING REMOVED 12.5'
 AFTER CASING REMOVED 9.5'

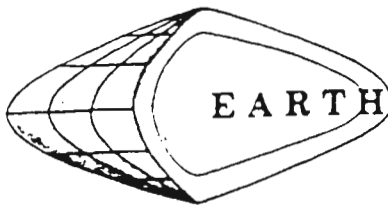
N — NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
 30" — ASTM D-1586. STANDARD PENETRATION TEST

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

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	10.0'
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			10.0'
WL	11.5'			6	12	Brown wet medium dense fine to coarse SAND, trace silt	
15.0	15.0'	3		6/4			
	16.5'			4	8	Bottom of Boring	16.5'
20.0						Note: Installed 2" P.V.C. screen 15.0' to 10.0', riser to surface with roadway box cover.	



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 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
		6	12	18	24	N			
0.4						25	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			7	Extremely moist gray crush gravel fill with 20 to 40% mostly concrete gravel, very fine to coarse sand size, compact, loose when disturbed	1.0	
	2	5		4		9	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	(1)
				5		12	----- grades downward to -----	6.0	
	3	3				7	Extremely moist distinctly mottled olive gray shaly (CLAYEY-SILT) with 20 to 40% mostly flat shale gravel, little fine to coarse size sand, stiff weakly stratified or possible fill	6.1	(2)
				3		8	----- clear transition to -----	9.0	
	4	5				10	Extremely moist distinctly mottled olive gray and gray (SAND) with fine to medium size sand, trace silt, compact, loose when disturbed, thinly bedded	7.0	Water level at 9.9 feet below ground surface with 8 1/2 inch hollow stem augers at 14.0 feet.
				5		12	----- grades downward to -----	10.0	
	5	10				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	17.0	(1) Cement bentonite grout.
				7		9	----- grades downward to -----	12.0	
	6	5				15	Wet faintly mottled gray (SAND) with very gravelly fine to fine size sand loose, thinly bedded, noticed petroleum sheen and odor	18.0	(2) Bentonite pellet seal.
				5		9	----- grades downward to -----	14.0	
	7	3				15			
	8	3				15			
	9	4				13			
	15					10			
	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
HOLE NO 1-89 continued (Mw-3)

SURF ELV _____

PROJECT Monitoring Well installation

LOCATION Approx. 21.0 feet west of NW corner of

F88b 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		
				Interval	ppm Reading	
			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.			
25				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
30			9	16.0 - 18.0	4.0	
35						

N = NUMBER OF BLOWS TO DRIVE 2 SPOON 12 WITH 140 LB WT FALLING 30 REF. ELV.

LOGGED BY Dale M. Granza/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
4F88b Main & Whaley Sts., East Aurora, NY

LOCATION Approx. 10.0 feet south of SW corner
of pump island

CLIENT AGWAY PETROLEUM CORPORATION

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

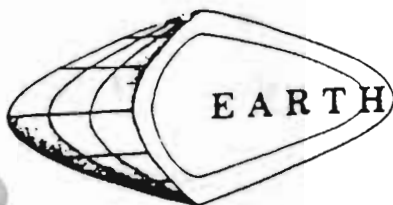
DEPTH FEET	SAMPLE NO	BLOWS ON SAMPLER					DESCRIPTION & CLASSIFICATION	WELL	WATER TABLE & REMARKS
		0-6	6-12	12-18	18-24	N			
1						10	Concrete 0.4	Four (4) inch inside diameter PVC riser pipe.	Concrete to 0.4 feet over crush gravel fill to 0.9 feet over silty fill with some gravel to 2.5 feet over 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	Extremely moist gray crush gravel fill with 20 to 40% mostly concrete gravel, very fine to coarse sand size, loose 0.9		
2	6					7	Extremely moist dark gray shaly silt loam (CLAYEY-SILT) fill with 15 to 40% shale gravel, stiff	Cement Bentonite Grout	4.7
						4	Extremely moist olive brown silt loam (CLAYEY-SILT) fill with 5 to 15% gravel, trace to little very fine size sand, firm 4.0		
3	8					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	Four (4) inch PVC slotted screen	6.6
5						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		
4	7					11	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	#2 size sand	7.3
						4	clear transition to 11.0		
6	27					39	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	Four (4) inch PVC slotted screen	17.3
						8	grades downward to 12.0		
7	1					11	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	#2 size sand	18.0
						9	grades downward to 12.0		
8	11					23	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	Four (4) inch PVC slotted screen	17.3
15						14	grades downward to 12.0		
9	6					18	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	#2 size sand	17.3
						11	grades downward to 12.0		
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. Gramza/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. 2-89 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																														
			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>OVM 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																																		

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

LOGGED BY Dale M. Granza/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

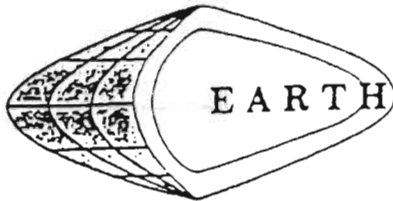
HOLE NO. 8-4 (MW-5)
SURF EL.
JOB NO. 8461
GROUND WATER DEPTH WHILE DRILLING 10.0'
BEFORE CASING REMOVED 10.0'
AFTER CASING REMOVED 12.0'
SHEET 1 OF 1

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

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

CASING TYPE - HOLLOW STEM AUGER

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' -	1		8/9			
	6.5'			6	15		
10.0							10.0'
WL	10.0' -	2		12/13		Brown wet very stiff SILT, little fine to coarse gravel, little fine to coarse sand	
	11.5'			13	26		13.0'
15.0						Brown wet medium dense fine to medium SAND, trace silt	
	15.0' -	3		8/8			
	16.5'			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.	



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)

SUFF. ELV. _____

PROJECT Continuous soil sampling and installation location 1.9 feet northwest of MW A
of new 6 inch recovery well, Agway Petroleum
4F88 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
		1	2	3	4	N			
							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" PVC Riser pipe	over sand and gravel sub-base fill to 1.0 feet
							Moist to extremely moist faintly mottled dark brown gravelly silt loam (CLAYEY-SILT) fill with 15 to 30% mostly shale gravel, little clay, soft		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	6" PVC Riser pipe	over coarse silty to silty soil fill with little gravel to 5.0 feet over
							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		apparent clayey soil fill with little gravel to 8.5 feet over apparent water
5	3						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" PVC Riser pipe	sorted and deposited (possible fill) sand with
							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		little gravel and silt to
10	5						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" PVC Riser pipe	9.5 feet over apparent
							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		coarse silty glacial drift (possible fill) to
15	8						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, stratified, (noticed oil sheen on water)	6" PVC screen #10 slot #2 size sand	9.2 11.0 feet over water
							clear transition to		sorted and deposited sand with little gravel, little to some silt to
20	10						clear transition to		13.0 feet over water sorted and deposited sand with trace silt to end of boring.

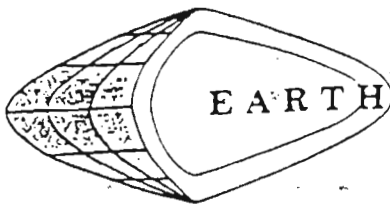
* Jack hammer and shovel down without sampling to 1.0 feet

(1) 550 fine size sand

19.2
20.0
Continued on sheet 1A.

N = NUMBER OF BLOWS TO DRIVE 2 SPOON 12 WITH 140 LB WT FALLING 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	
		0-1	1-2	2-3	3-4	4-5			Interval	Depth
1	2					4	See previous sheet.	6" PVC riser pipe Antonite relief seal	OVM Readings	
	2					3			1.0-3.0	1.0
	2					2			3.0-5.0	1.0
	2					2			5.0-7.0	1.0
	2					4			at 6.0	1.0
5	2					4			7.0-9.0	1.0
	2					12			9.0-11.0	1.0
	2					7			11.0-13.0	1.0
	2					6			13.0-15.0	1.0
	2					6			15.0-17.0	1.0
	2					12	17.0-19.0	1.0		
	2					17.7	19.0-20.0	1.0		
10	5					15	6" PVC riser pipe #10 slot #12 size sand	9.2	(1) 550 fine size sand	
	5					13				
	8					13				
	13					26				
	13					11				
15	1					8		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		
	3					5				
	5					6				
	8					5				
	1					7				
	2					6				
	3					6				
	3					6				
	4					6				
	2					6				
20	3					3				

See previous sheet.

--- clear transition to --- 13.0

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.

Water level at 11.5 feet below ground surface at completion.

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. Gill/Geologist SHEET 1A OF 1A

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	N				
			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) Contains trace brick 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			
		3	5	3	3	4	6	BG				
5		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				
		A U 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	
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	6/12	12/18	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			
5		3	4	12	9	10	21	BG-	Brown Clayey SILT, Little Shale Rock Fragment (Moist, Medium)		
		4	7	7	8	6	15	BG			
		5	6	4	3	4	7	2.5-	Contains occasional Medium Sand Lense (Moist - Wet) Contains Little Sand		
								3.0			
10		6	4	4	5	8	9	BG-	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	Contains Occasional Shale Rock Fragment Contains Little Silt, trace gravel	Driller Notes "Running Sands" at Bottom of Hole	
15		8	22	13	13	15	26	BG			
		9	10	12	10	10	22	BG	(Loose)		
		10	10	4	7	7	11	BG			
20									Boring Complete at 20.0'	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	
									Ground Water Monitoring Well Installed at Boring Completion Well Tip Set at 19' 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: 5-11-92FINISHED: 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	12	18	24				
0			AU	G	E	R			1' ASPHALTIC CONCRETE		
1		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) Brown Clayey SILT, Little Sand, occasional broken rock fragment (Moist, Medium) Brown Fine - Coarse SAND, Little fine Gravel, Little Silt (Wet, Loose) Contains "AND" Fine - Medium Gravel, trace silt (Firm)	PID reading 10.5 - 11 ppm inside augers with augers set at 10' Driller Notes Water at Approximately 10-feet	
2		2	5	5	5	3	10	BG-1.8			
3		3	4	4	4	34	8	7.0-8.0			
4		4	7	5	5	5	10	13.7-14			
5		5	11	5	3	4	8	9.5-10			
6		6	5	7	12	8	19	2.5-3.0			
7		7	6	8	10	14	18	2.5-3.0			
8		8	19	16	12	14	28	1.5-1.8			
18									Boring Complete at 18'	Free Standing Water measured at 15.5' at Boring Completion	
17									Ground Water Monitoring Well Installed at Boring Completion Well Tip Set at 17' below ground surface Refer to Well Installation Diagram for Details	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	

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-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	6-12	12-18	18-24	N				
0		1	8	6	5	5	11	BG	3" TOPSOIL		
		2	4	3	3	5	6	BG	Brown Clayey SILT, Little Sand, trace roots, trace cinders, trace brick (Moist, FILL)		
5		3	16	17	19	17	36	BG	Brown Fine - Medium SAND and Silt, trace gravel, trace clay (Moist, Loose) (Compact)	Poor Recovery Sample #3	
		4	10	10	9	6	19	BG	Becomes Mottled (Firm)		
		5	3	4	12	21	16	BG	Contains Little Broken Shale Rock Fragments	Driller Notes Water at Approximately 10-feet	
10		6	13	7	7	13	14	BG	(Moist - Wet)		
		7	16	11	13	13	24	BG	Contains "AND" fine Gravel, trace silt (Wet, Firm)		
15		8	30	88	16	14	104	BG	(Very Compact)	Driller notes "Running Sands" at bottom of hole	
		9	10	9	10	7	19	BG			
20									Boring Complete at 18'	Free Standing Water measured at 10' at Boring Completion	
25									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).	
30									Well Tip Set at 17' below ground surface	BG = Background PID measurements = 1.5 - 2.0 ppm	
35									Refer to Well Installation Diagram for Details		
40											

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

Matrix Environmental Technologies Inc.

SUBSURFACE LOG

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY PROJECT #: 93-065
 CLIENT: Agway Energy WELL/BORING #: MW5 Ac-5
 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:

*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 #: MW6 4(-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

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY PROJECT #: 93-065
 CLIENT: Agway Energy WELL/BORING #: MW7 Ag 8
 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

Matrix Environmental Technologies Inc.

SUBSURFACE LOG

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY
 CLIENT: Agway Energy
 DATE STARTED: 2/12/93 DATE COMPLETED: 9/24/93
 GROUNDWATER DEPTH WHILE DRILLING: _____
 WEATHER: Sunny 55° DRILL RIG: Mobil D-40 (track)
 DRILL TYPE/SIZE: 3 3/4 Auger

PROJECT #: 93-065
 WELL/BORING #: MWB AG 9
 RECORDED BY: EAP
 AFTER COMPLETION: _____
 DRILLERS: Buffalo Drilling
 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%	
S3	72.3	15	17	SS	2-5-7-5	12	100%	

REMARKS:

PROJECT/LOCATION: AGWAY/Main Street, East Aurora, NY PROJECT #: 93-065
 CLIENT: Agway Energy WELL/BORING #: MW9 A1510
 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

1

2

3

4

5

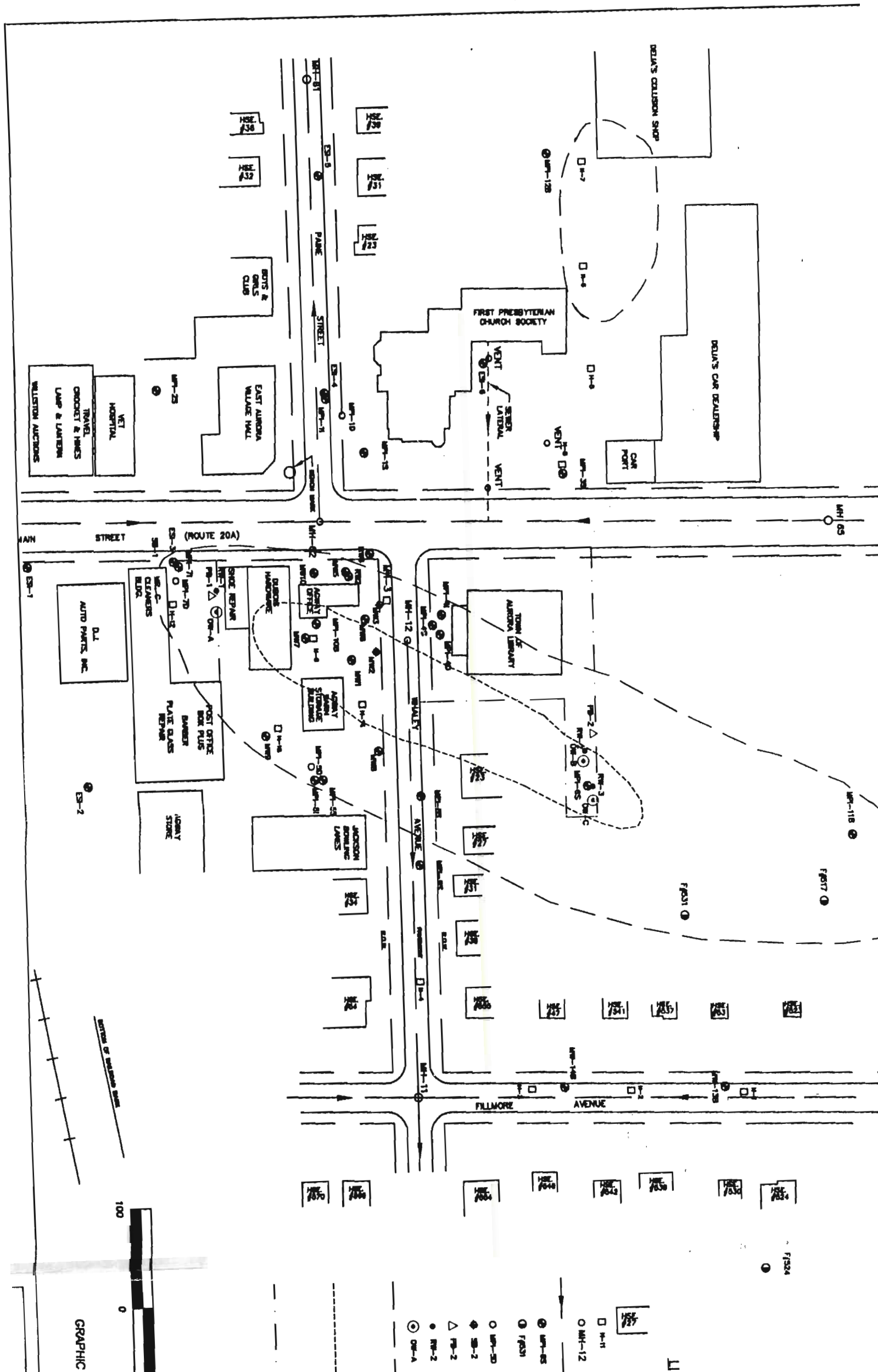


SECTION 3
REMEDIAL INVESTIGATION REPORT – ADDENDUM A – MAY 1996

Figure 2-2	Base of Outwash Aquifer PCE Plume Recovery and Observation Well Locations	October 1995
Figure 4-1	Geologic Cross-Section at Test Zone B	November 1995
Table 4-1	Aquifer Parameters – Test Zone B	
Table 4-2	Groundwater Sampling Results	

This section also includes borehole logs for boreholes PB-1 and PB-2, and borehole logs/well construction details for monitoring wells RW-1, RW-2, RW-3, OW-A, OW-B, and OW-C.





WILSTON AUCTIONS
LAMP & LANTERN
CROCKET & HINES
TRAVEL
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EAST AURORA
WILDADE HALL

FIRST PRESBYTERIAN
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DELUCA'S COLLISION SHOP
DELUCA'S CAR DEALERSHIP
CAR PORT

TOWN OF
AURORA LIBRARY

JACKSON
BOOKING
LINES

POST OFFICE
BOOK PLUS
BANKER
PLATE GLASS
REFRAC

D.I.
AUTO PARTS, INC.

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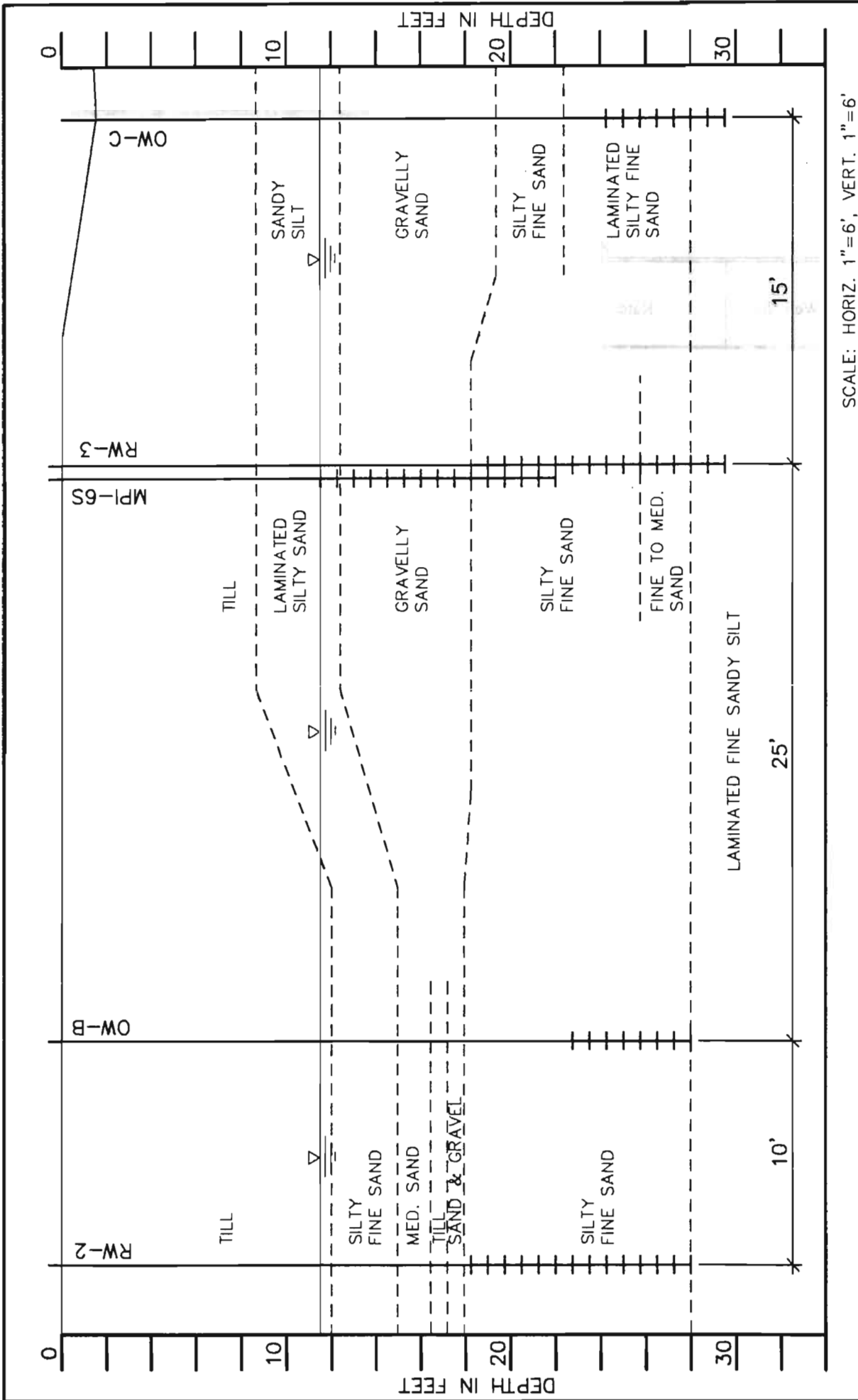
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GRAPHIC

- MH-65
- FB-2
- MH-30
- MH-2
- △ FB-2
- MH-2
- MH-12
- MH-11

F1524

FIGURE 4-1



MR. C CLEANERS
 AQUIFER TESTING REPORT
 GEOLOGIC CROSS-SECTION AT TEST ZONE B
 NYSDEC NOVEMBER 1995

LEGEND
 --- GEOLOGIC CONTACT
 | WELL RISER
 | WELL SCREEN
 ▽ WATER TABLE

**MALCOLM
 PIRNIE**

DEC-31-GXS

TABLE 4-1

**MR. C CLEANER SUPERFUND SITE
AQUIFER TESTING PROGRAM**

AQUIFER PARAMETERS - TEST ZONE B

Well No.	Rate	Transmissivity (gpd/ft)	Horiz. Hydraulic Conductivity (cm/s)	Ratio of Horiz/Vert. Hydraulic Conductivity
OW-B	4.3 gpm Recovery	1109	2.9E-3	4.8
	5.0 gpm Pumping	1129	3.0E-3	4.8
	5.0 gpm Recovery	1181	3.1E-3	4.8
OW-C	4.3 gpm Recovery	832	2.2E-3	1.7
	5.0 gpm Pumping	886	2.1E-3	1.7
	5.0 gpm Recovery	819	2.3E-3	1.8

TABLE 4-2

**MR. C CLEANER SUPERFUND SITE
AQUIFER TESTING PROGRAM**

GROUNDWATER SAMPLING RESULTS^(1, 2)

Parameter	RW-1	RW-2 (PW-B)	OW-B	MPI-6S	OW-C	RW-3 Infl. #1	RW-3 Infl. #2	RW-3 Effluent
Volatile Organic (ug/l)								
Methylene Chloride	2 JB	3 JB	<10	3 JB	11 B	2 JB	2 JB	3 JB
1,1 Dichloroethene	<10	<10	<10	12	6 J	<10	2 J	<10
1,2 Dichloroethene	8 J	<10	9 J	26	26	16	20	<10
1,1,1 Trichloroethane	3 J	<10	<10	<10	<10	<10	<10	<10
1,2 Dichloropropane	<10	<10	<10	2 JB	<10	<10	<10	<10
Trichloroethene	3 J	18	110	360 J	180 J	290 J	340 J	<10
Tetrachloroethene	680	66	3000	1700	2100	18,000	18,000	<10
Chlorobenzene	4 J	<10	<10	<10	<10	<10	<10	<10
Metals (ug/l)								
Aluminum	—	—	—	—	—	130 B	136 B	1325 B
Calcium	—	—	—	—	—	152,000	157,000	156,000
Copper	—	—	—	—	—	44	<4.6	<4.6
Iron (total)	—	—	—	—	—	1650	1740	<75
Iron (dissolved)	—	—	—	—	—	1640	1700	—
Lead	—	—	—	—	—	44.6	<3.1	<3.1
Magnesium	—	—	—	—	—	25,400	26,200	25,900
Manganese (total)	—	—	—	—	—	386	359	379
Manganese (dissolved)	—	—	—	—	—	386	360	—
Mercury	—	—	—	—	—	<0.20	<0.20	<0.20
Zinc	—	—	—	—	—	24	4.6 B	<1.8
Cyanide	—	—	—	—	—	<10	<10	<10
Other (mg/l)								
Alkalinity	—	—	—	—	—	317	288	—
Hardness	—	—	—	—	—	494	515	—
Oil & Grease	—	—	—	—	—	—	—	1
Sulfate	—	—	—	—	—	41	49	—
Total Dissolved Solids	—	—	—	—	—	—	—	2580
Total Suspended Solids	—	—	—	—	—	22	4	6
<p>Notes: (1) Only parameters detected above the analytical detection limit in more than one sample are listed. (2) J = Estimated Value B = Parameter detected in laboratory blank. (—) Not Analyzed</p>								

BOREHOLE LOG PB-1

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

CLIENT: NYSDEC
 DRILLING DATES: 07/21/95
 DRILLING METHOD: 2-1/4" HSA
 LOGGED/CHECKED BY: JB/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

- 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-7D												
3	-3													
4	-4													
5	-5													
6	-6													
7	-7													
8	-8													
9	-9													
10	-10	Brown SILTY CLAY, w/ some sandy gravel, till		SS	8	8	0.8	16						JHS=32 ppm
11	-11	STRATIFIED Brown moist SAND, w/ some gravel		SS	8	7								JHS=220 ppm
12	-12	Brown wet medium SAND, with little to some gravel		SS	4	3	1.3	6						JHS=42 ppm
13	-13	Increasing moisture		SS	3	3								JHS=38 ppm
14	-14			SS	3	4	1.3	7						JHS=72 ppm
15	-15			SS	4	6								JHS=1.0 ppm
16	-16	Brown wet medium SAND, some f sand, trace silt, SP		SS	6	10	1.5	18						JHS=5.0 ppm
17	-17	Brown wet SILTY SAND with fine GRAVEL		SS	8	6								
18	-18	Wet GRAVEL and SAND, mostly medium sand		SS	7	4	0.8	8						
19	-19			SS	4	4								
20	-20			SS	6	6								

BOREHOLE LOG PB-1

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

CLIENT: NYSDEC
 DRILLING DATES: 07/21/95
 DRILLING METHOD: 2-1/4" HSA
 LOGGED/CHECKED BY: JB/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

- 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.		
21	-21	Brown wet SANDY GRAVEL		10	0.7	22					JHS=13 ppm	
22	-22	Brown becoming gray wet SAND with gravel		13							JHS=9.0 ppm JHS=18 ppm	
23	-23	Brown wet SILTY SAND and GRAVEL		8	1.0	15					JHS=7 ppm	
24	-24	Brown wet SANDY GRAVEL		7								
25	-25	No Recovery		8								
26	-26	Brown wet SANDY GRAVEL, firm to loose, coarse and medium sand	12		0.0	23					JHS=9 ppm	
27	-27		11	1.0	22							
28	-28	Boring complete @ 28'. Borehole filled with drill cuttings.	12									
29	-29		10									
30	-30											
31	-31											
32	-32											
33	-33											
34	-34											
35	-35											
36	-36											
37	-37											
38	-38											
39	-39											
40	-40											

BOREHOLE LOG PB-2

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










CLIENT: NYSDEC
 DRILLING DATES: 07/15/95
 DRILLING METHOD: 2-1/4" HSA
 LOGGED/CHECKED BY: JMA/BCH
 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	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.	% RQD.			
1	-1	Logging begins @ 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	Brown moist SANDY GRAVEL, ang. gravel, loose when disturbed, massive, till		SS	11 10 8 9	1.1	18							JHS=0.5 ppm Z JHS=0.5 ppm
12	-12	Olive brown moist GRAVELLY SAND, loose when dist., massive, till												JHS=0.8 ppm
13	-13	STRATIFIED Brown wet SILTY fine SAND		SS	3 3 8 8	0.1	11							JHS=0.2 ppm
14	-14	Brown wet SILTY f SAND, little silt, mostly f & med. sand, liquifies when dist.		SS	3 3 5 12	1.4	8							JHS=0.2 ppm
15	-15	Brown wet SAND, tr silt, mostly med w/ some f sand												JHS=0.2 ppm
16	-16													
17	-17	Brown moist GRAVELLY SAND, large cobble in silt-f sand matrix, massive, till		SS	20 22 15 7	2.0	37							JHS=0.5 ppm Z JHS=0.5 ppm JHS=0.7 ppm
18	-18	STRATIFIED Brown GRAVEL w/ sand												JHS=0.7 ppm
19	-19	Brown wet SANDY SILT, little f sand, liq. when dist.		SS	3 6 9 10	2.0	15							JHS=0.0 ppm
20	-20	Gray wet SILTY f SAND, little silt, mostly f, tr-little med., liq. when dist.												JHS=0.0 ppm
		Gray wet f SAND, little silt, liq. when dist.												

BOREHOLE LOG PB-2

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

CLIENT: NYSDEC
 DRILLING DATES: 07/15/95
 DRILLING METHOD: 2-1/4" HSA
 LOGGED/CHECKED BY: JMA/BCH
 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 ('W' %)








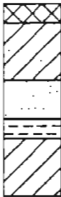
DEPTH (ft BGS)	ELEVATION (ft AMSL)	SOIL/ROCK DESCRIPTION	SOIL DATA				ROCK DATA				WELL DIAGRAM	COMMENTS (USCS)
			GRAPHIC LOG	SAMPLE NO. / RUN NO.	BLOWS / 6" RECOVERY (in)	'N'-VALUE	FROM/TO	DRILL RATE MIN./FT.	% REC.	% ROD.		
21	-21	Gray wet SILTY f SAND, some vf sand, little-some silt, liq. when dist.		SS	1 3 4 8	1.1	7					JHS=0.3 ppm JHS=0.6 ppm
22	-22	Gray wet f SAND, little vf, tr-little silt, liq. when dist.		SS	4	2.0	13					JHS=0.7 ppm
23	-23		5 8 8									
24	-24	Gray wet SAND, tr silt, mostly f sand, tr medium, liq. slightly when dist.		SS	2 4	1.5	7					JHS=0.4 ppm
25	-25		3 6									
26	-26	Gray CLAYEY SILT, laminated		SS	2 6	1.8	12					JHS=0.8 ppm JHS=0.6 ppm JHS=0.5 ppm
27	-27		6 6									
28	-28	Gray wet SAND, tr silt, mostly f, tr vf-medium, liq. when dist.			6							
29	-29	Advanced augers to 24' BGS. Sampled to 28' BGS. Borehole backfilled with drill cuttings.										
30	-30											
31	-31											
32	-32											
33	-33											
34	-34											
35	-35											
36	-36											
37	-37											
38	-38											
39	-39											
40	-40											

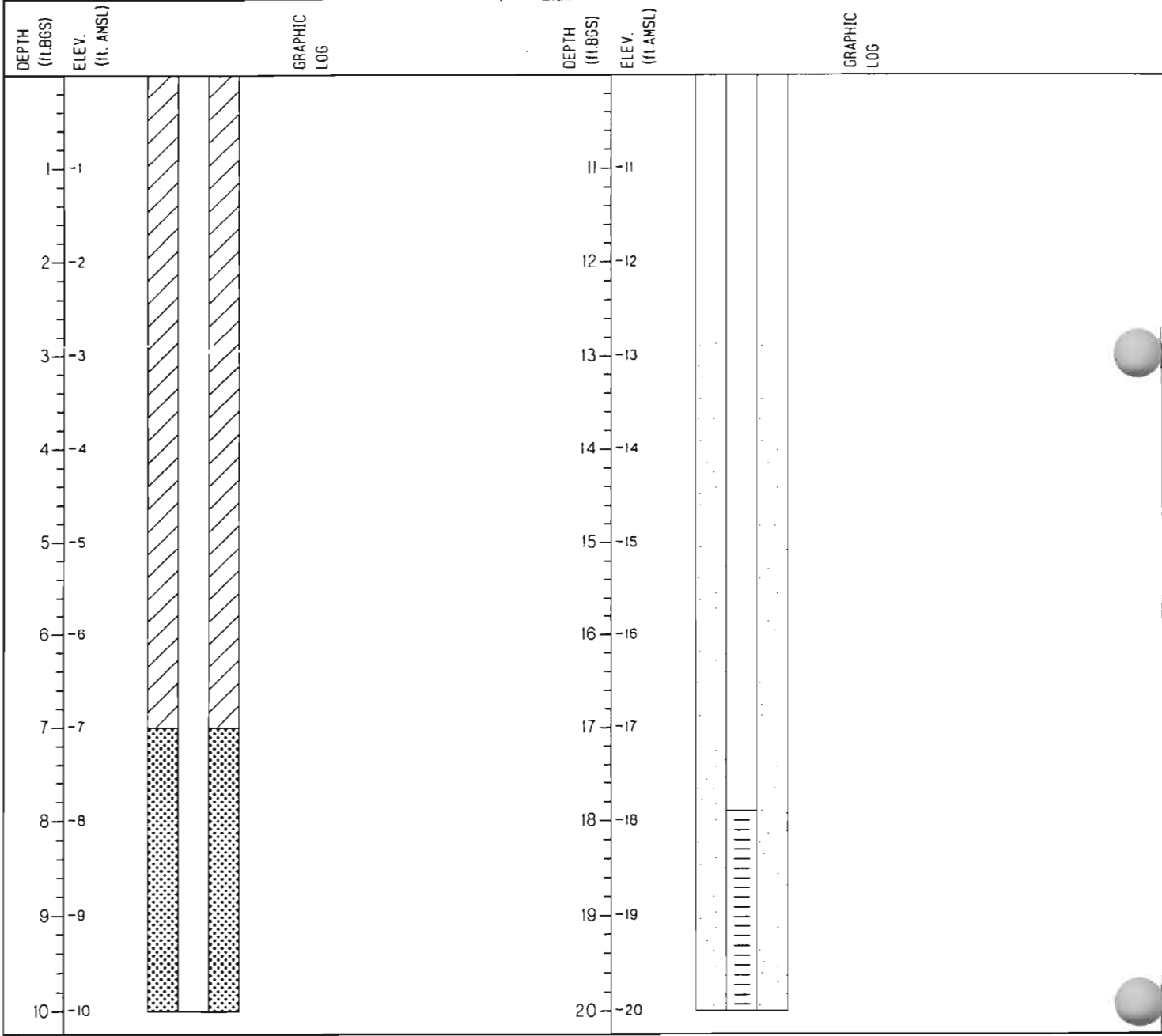
WELL/BOREHOLE RW-1 CONSTRUCTION DETAILS

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

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




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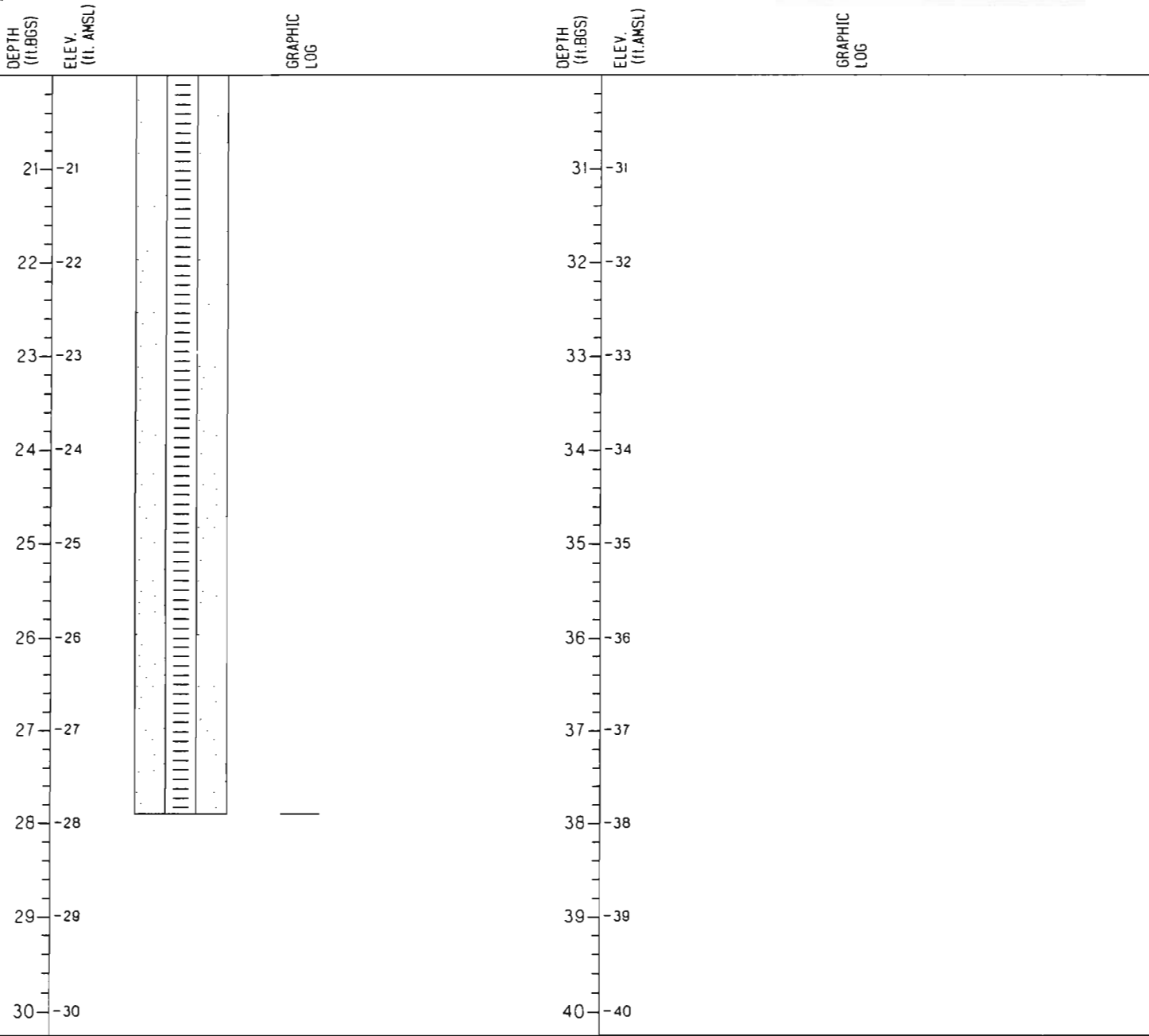
WELL/BOREHOLE RW-1 CONSTRUCTION DETAILS

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 (0.080") SCREEN 17.9 to 27.9 feet 	 4-INCH DIAMETER CASING 0 feet  6-INCH DIAMETER RISER 0.0 to 17.9 Feet  6-INCH DIAMETER BOREHOLE 0 feet	 GRAPHIC LOG
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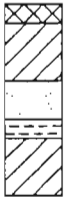





NOTES:

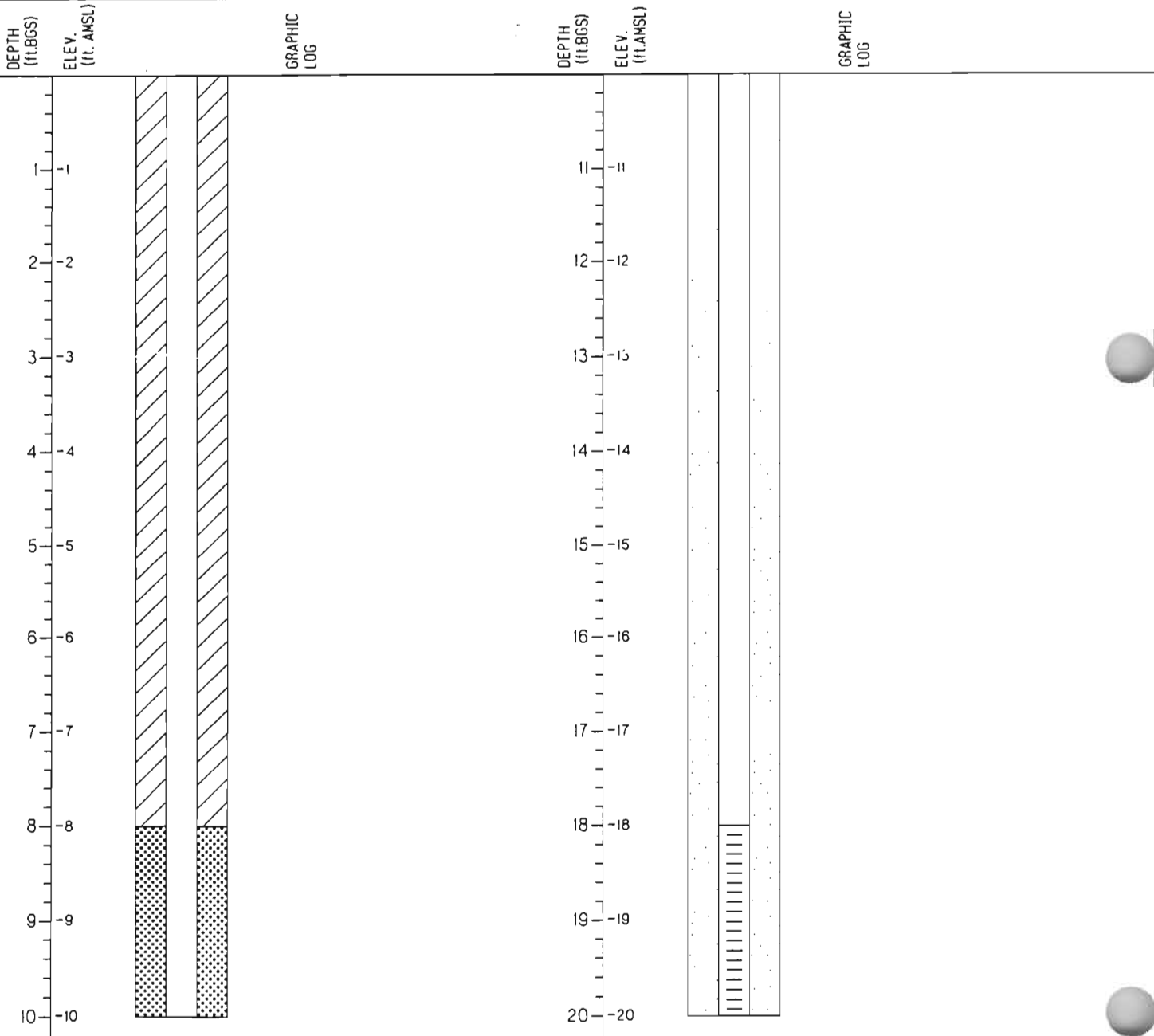
WELL/BOREHOLE RW-2 CONSTRUCTION DETAILS

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







NOTES:




WELL/BOREHOLE RW-2 CONSTRUCTION DETAILS

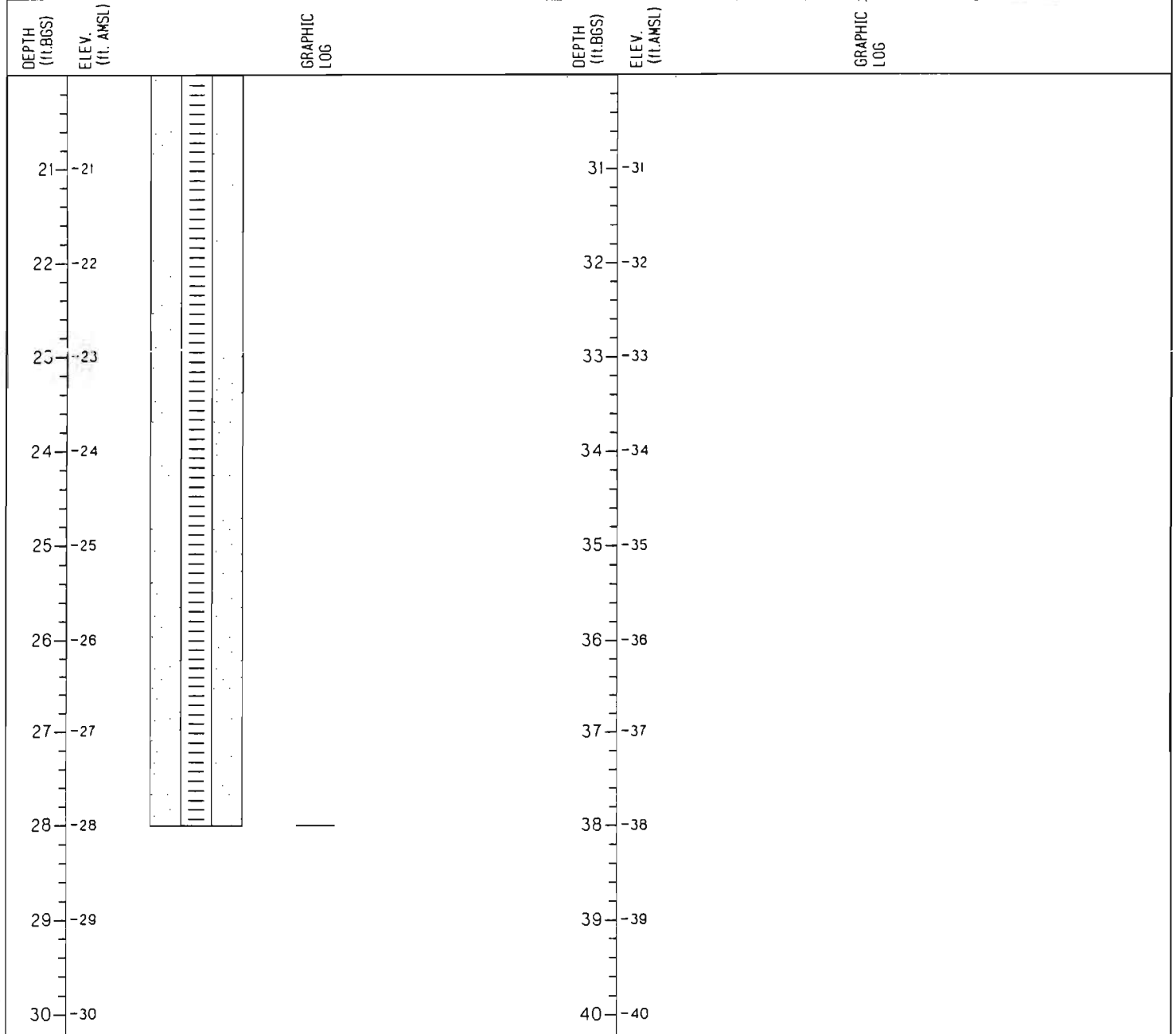
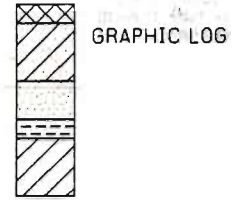
PROJECT: MR C CLEANERS
 PROJECT NO.: 0266-31-4
 LOCATION: EAST AURORA, NEW YORK
 SURVEY COORDINATES:
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

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:

BOREHOLE LOG RW-3

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

CLIENT: NYSDEC
 DRILLING DATES: 09/07/95
 DRILLING METHOD: 6-1/4" 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 sugars
 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 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.	% ROD.			
1	-1	Logging begins at 10.0'												
2	-2	For 0-10' description see MPI-6S.												
3	-3													
4	-4													
5	-5													
6	-6													
7	-7													
8	-8													
9	-9													
10	-10	LAMINATED Brown moist SILTY SAND, mostly fine & very fine sand, some silt, SM		SS	2	2	1.7	7						JHS=0.0 ppm
11	-11	Grey brown moist SILTY CLAYEY SAND		SS	5	6								JHS=6.0 ppm
12	-12	Grey wet SILTY SAND, mostly f & vf, some silt, t-little clay, SM		SS	11	10	2.0	22						JHS=60 ppm
13	-13	Brown SILTY SAND, mostly f & vf, some silt, t clay, 1.125 in. layer of c sand-oxidized @ 11.1'		SS	12	10								JHS=60 ppm
14	-14	STRATIFIED Brown wet SAND, f-c sand		SS	3	4	0.5	11						JHS=162 ppm
15	-15	Brown ext moist SANDY SILT, w/ little vf sand, sharp boundary @ 12.3 ft., .5 in. thick-gray sand		SS	7	10								JHS=162 ppm
16	-16	Brown wet SANDY SILT, w/ little vf sand		SS	8	8	0.6	18						JHS=220 ppm
17	-17	Wet SAND and GRAVEL, rounded and black shale, f-c sand, compact becoming sand & gravel @ 14.0'		SS	10	12								JHS=220 ppm
18	-18	Grey GRAVELLY SAND, black shale, compact, f-c sand		SS	2	8	1.1	19						JHS=220 ppm
19	-19	Grey wet SILTY SAND, mostly f and vf sand, little silt		SS	11	6								
20	-20													

BOREHOLE LOG RW-3

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

CLIENT: NYSDEC
 DRILLING DATES: 09/07/95
 DRILLING METHOD: 6-1/4" 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' %)
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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.	% RQD.			
21	-21	Grey brown SAND, f-c, trace f gravel, loose when disturbed		SS	1	1.5	2						JHS=230 ppm	
22	-22	Grey SAND, f-m sand, loose when disturbed		SS	2	5							JHS=28 ppm	
23	-23	Grey SILTY SAND, little-some silt, vf sand, liq. when disturbed		SS	2	3	1.9	5						JHS=180 ppm
24	-24	Grey wet SAND, trace silt, mostly f-m sand, occ. gravel, liq. when disturbed			4									
25	-25	Grey wet SAND, mostly medium, little fine, loose when disturbed		SS	WR WH 1 3		1.1	1						JHS=260 ppm
26	-26	Encountered running sands		SS	5	8	2.0	13						
27	-27			5										
28	-28			6										
29	-29													
30	-30													
31	-31	Sampled to 28.0'. Boring complete @ 30.0'. Installed Pumping well. Natural sands filled borehole to 29.3' while installing well. Well bottom at 29.3'.												
32	-32													
33	-33													
34	-34													
35	-35													
36	-36													
37	-37													
38	-38													
39	-39													
40	-40													

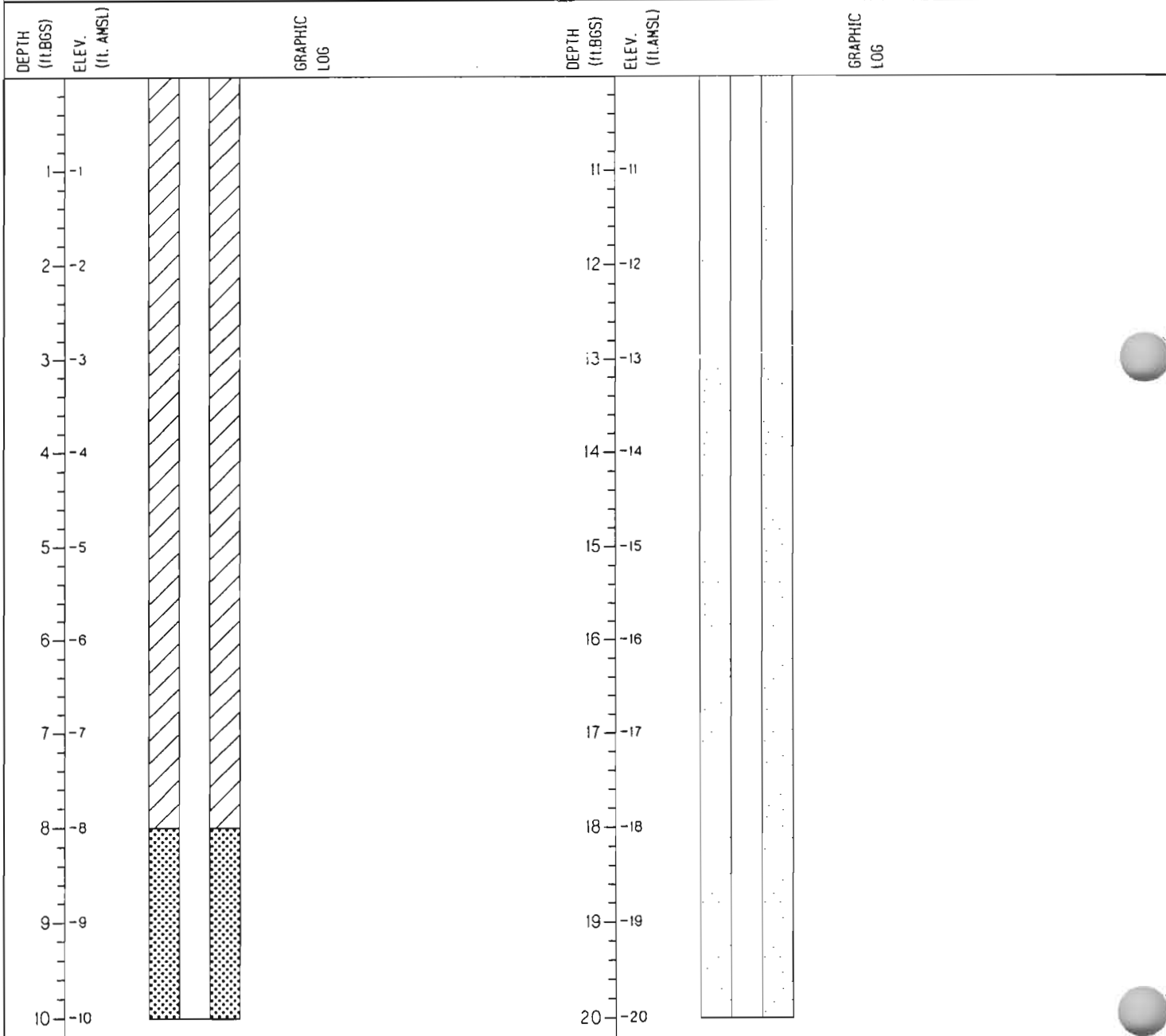
WELL/BOREHOLE OW-A CONSTRUCTION DETAILS

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: 07/21/95
 DRILLING METHOD: 4 1/4" HSA
 LOGGED/CHECKED BY: JRB
 SURFACE ELEVATION:

SYMBOLS AND DEFINITIONS

- | | | |
|---|--|---------------------|
| <p> BENTONITE-CEMENT SEAL
0.0 to 8.0 feet</p> <p> BENTONITE SLURRY SEAL
8.0 to 10.0 feet</p> <p> MORIE #0 SAND PACK
10.0 to 28.0 feet</p> <p> 2-INCH DIAMETER SLOTTED (0.010") SCREEN
23.0 to 28.0 feet</p> | <p> 4-INCH DIAMETER CASING
0.0 feet</p> <p> 2-INCH DIAMETER RISER
0.0 to 23.0 Feet</p> <p> 8-INCH DIAMETER BOREHOLE
0 feet</p> <p> 4-INCH DIAMETER BOREHOLE
0 feet</p> | <p> GRAPHIC LOG</p> |
|---|--|---------------------|







NOTES:





WELL/BOREHOLE OW-A CONSTRUCTION DETAILS

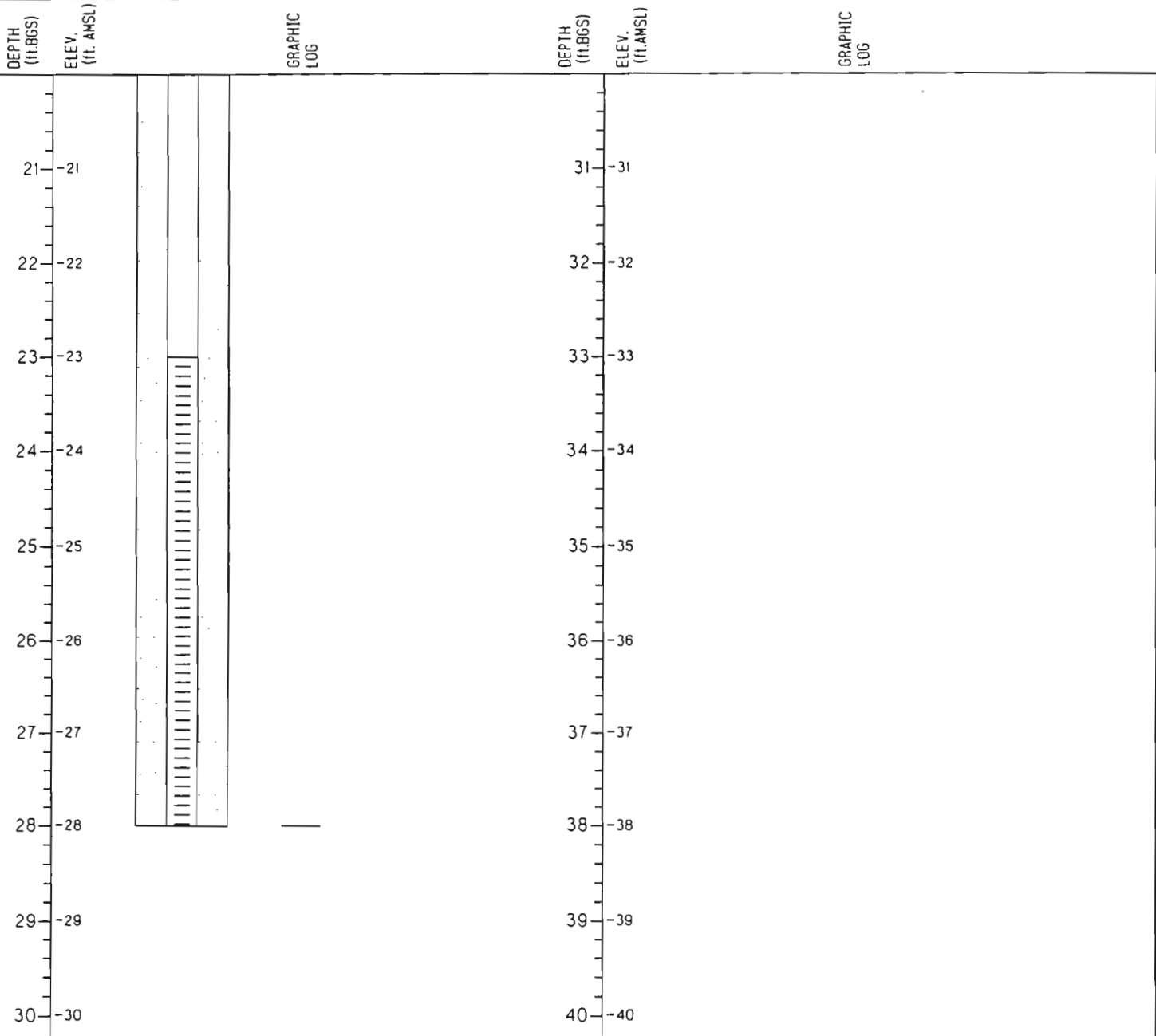
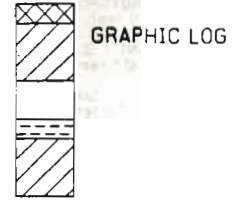
PROJECT: MR C CLEANERS
 PROJECT NO.: 0266-31-4
 LOCATION: EAST AURORA, NEW YORK
 SURVEY COORDINATES:
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

CLIENT: NYSDEC
 DRILLING DATES: 07/21/95
 DRILLING METHOD: 4 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
-  2-INCH DIAMETER SLOTTED (0.010")SCREEN
23.0 to 28.0 feet

-  4-INCH DIAMETER CASING
0.0 feet
-  2-INCH DIAMETER RISER
0.0 to 23.0 Feet
-  8-INCH DIAMETER BOREHOLE
0 feet
-  4-INCH DIAMETER BOREHOLE
0 feet







NOTES:





WELL/BOREHOLE OW-B CONSTRUCTION DETAILS

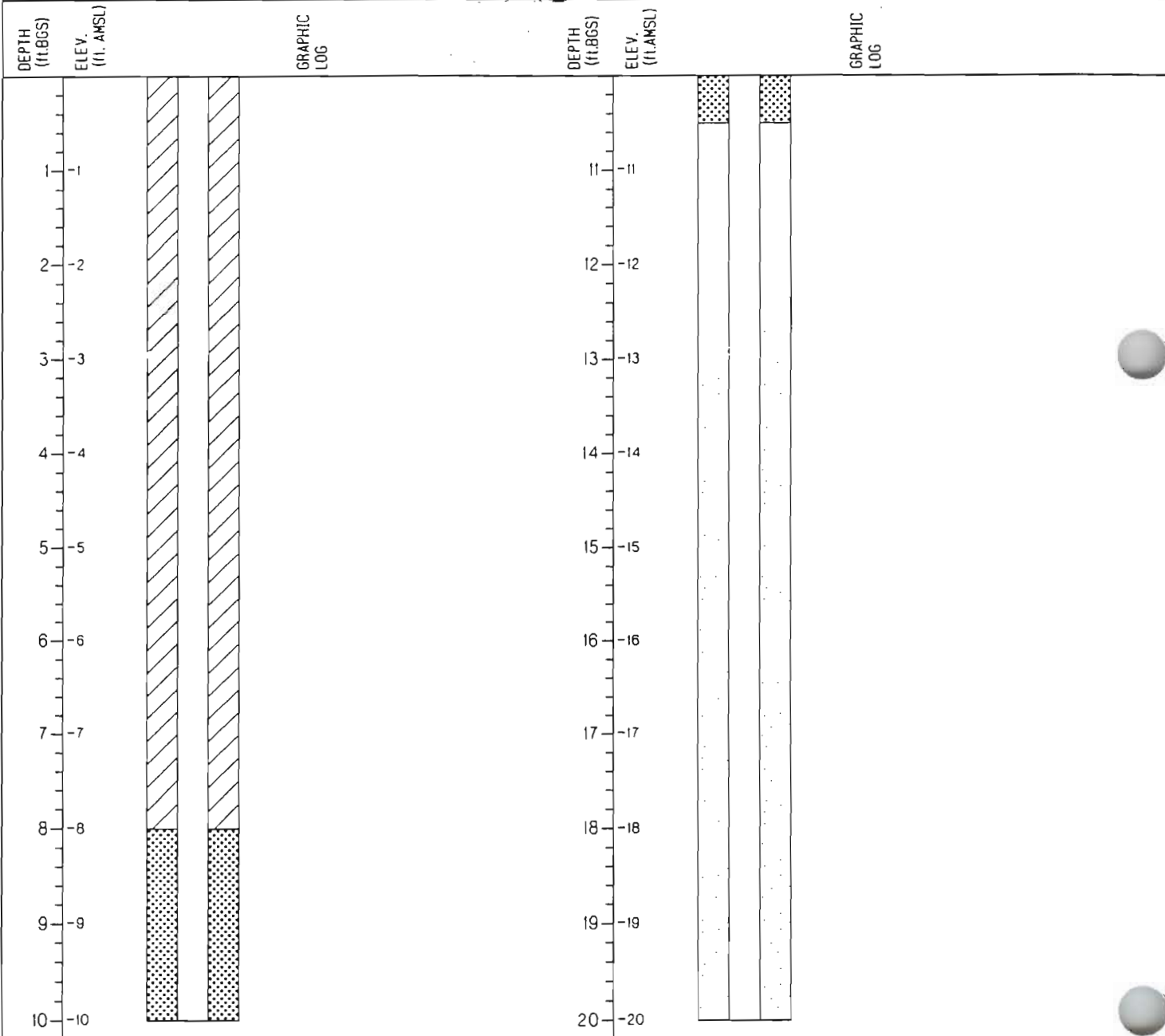
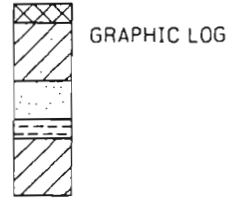
PROJECT: MR C CLEANERS
 PROJECT NO.: 0266-31-4
 LOCATION: EAST AURORA, NEW YORK
 SURVEY COORDINATES:
 SURVEY DATUM: NEW YORK STATE SURVEY GRID

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

SYMBOLS AND DEFINITIONS

-  BENTONITE-CEMENT SEAL
0 to 8.0 feet
-  BENTONITE SLURRY SEAL
8.0 to 10.5 feet
-  MORIE #0 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







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:

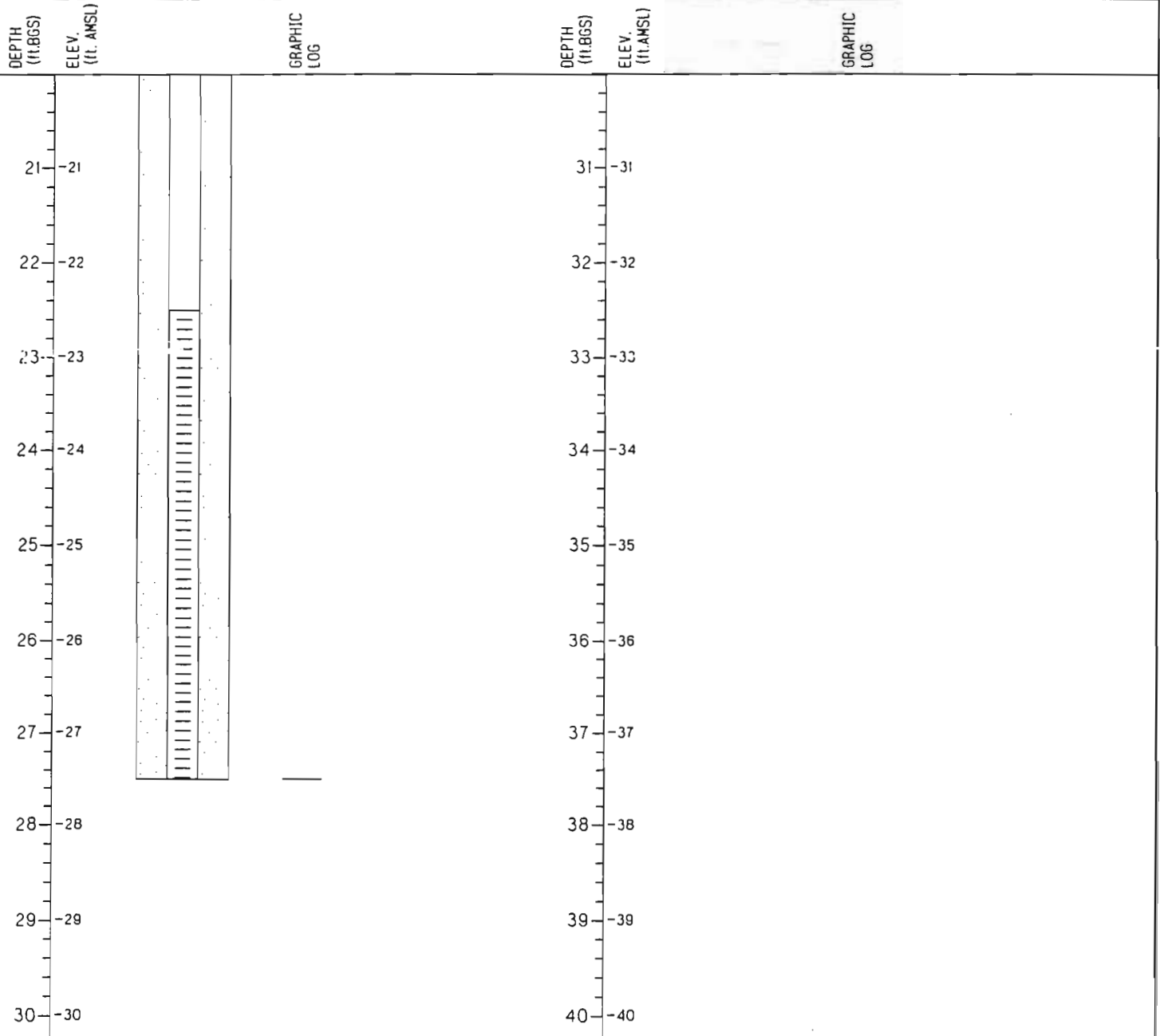
SYMBOLS AND DEFINITIONS

-  BENTONITE-CEMENT SEAL
0 to 8.0 feet
-  BENTONITE SLURRY SEAL
8.0 to 10.5 feet
-  MORIE #0- 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



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	Grey wet SILT and SAND w/ fine and v. fine size, laminated		SS	3								JHS=0.0 ppm
11	-11	STRATIFIED Grey wet SAND w/ trace silt, mostly fine sand, little medium and v. fine, stratified		SS	3 4 9	1.4	7						JHS=11.5 ppm
12	-12	Wet SAND and GRAVEL, subrounded and subangular, f-c sand		SS	11 11 10	1.2	21						JHS=198 ppm
13	-13	Brown wet GRAVELLY f-c SAND, some f gravel		SS	8 7 9	1.2	16						JHS=340 ppm
14	-14	Wet m-c SAND & GRAVEL, subround & subang.		SS	12 13 11	1.2	24						JHS=230 ppm
15	-15	Wet GRAVELLY SAND, subrounded & subang., f-c sand		SS	10								
16	-16	Brown wet f-m SAND, little gravel & c sand		SS	25								
17	-17	Brown wet SAND & GRAVEL, f-c sand, subrounded & subang., compact		SS	10 5 3	0.9	15						
18	-18	Grey wet SAND & GRAVEL, f-c sand, subround gravel											
19	-19	Grey wet SANDY SILT, v. fine sand, liquifies when disturbed											
20	-20	Gray wet SILTY f SAND, little silt											

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.
21	-21	Brown wet SILTY SAND, vf-m sand, little silt, trace gravel		SS	3 2 3 3	2.0	5					JHS=210 ppm	
22	-22	Gray wet SILTY SAND, vf-f sand, tr-little silt											JHS=210 ppm
23	-23	Gray wet SILTY SAND, vf sand, tr f, little silt		SS	1 1 2 2	1.3	3						JHS=190 ppm
24	-24	Gray wet SILTY SAND, vf-f sand, tr-little silt											JHS=190 ppm
25	-25	Gray wet SILTY SAND, vf sand, tr fine, little-some silt, trace laminations	SS	4 4 5 6	2.0	9							JHS=120 ppm
26	-26	Gray wet SILTY SAND, f sand, little vf, little silt, slightly laminated											JHS=120 ppm
27	-27	LAMINATED Gray wet SILT and SAND, vf sand, liquid when disturbed	SS	4 5 7 7	2.0	12							
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												

426

ATAG XDP	
ATAG	XDP
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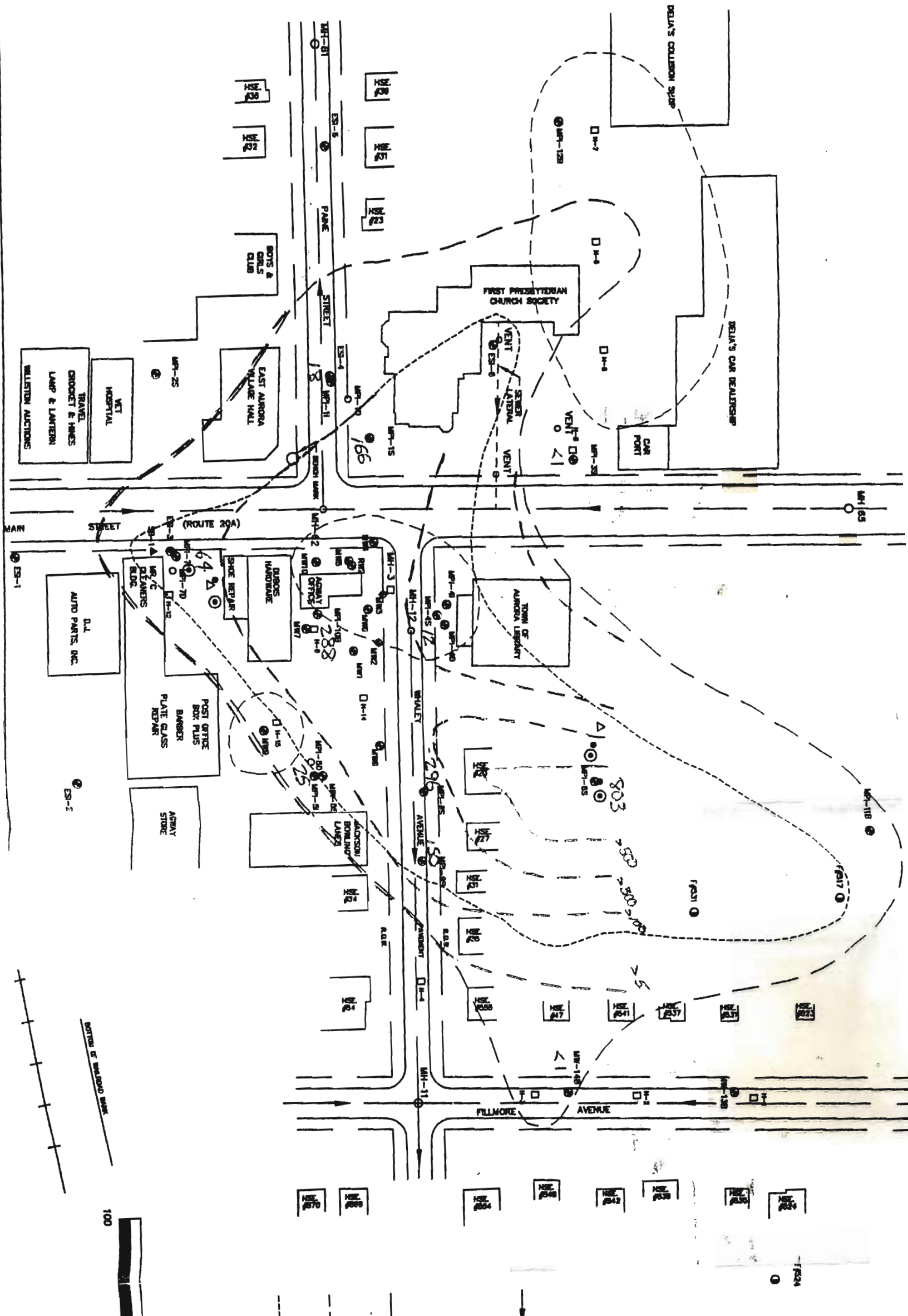
**SECTION 4
PRE-DESIGN INVESTIGATION – DECEMBER 1998**

Figure 1	PCE and Breakdown Products	December 1998
Figure 2	Comparison of PCE Concentration over Time	February 1999
Figure 3	Comparison of TCE Concentration over Time	February 1999
Figure 4	Comparison of 1,2-DCE Concentration over Time	February 1999
Figure 5	Comparison of Redox Values over Time	February 1999
Table 1	Groundwater Sampling Results – December 9-10, 1998	

FEBRUARY 1998

February 1998
February 1999
over Time February 1998
February 1998

February 1998



WILKINSON AUCTIONS
LAMP & LANTERN
CROCKET & HINES
TRAVEL

VET HOSPITAL

EAST AURORA VILLAGE HALL

FIRST PRESBYTERIAN CHURCH SOCIETY

CAR PORT

DELIA'S CAR DEALERSHIP

DELIA'S COLLISION SHOP

D.L. AUTO PARTS, INC.

MR. C. CLEANERS BLDG.

DIAPHS HARDWARE

AGENT OFFICE

TOWN OF AURORA LIBRARY

POST OFFICE BOX PLUS BARBER PLATE GLASS REPAIR

ACROSON BOWLING LANE

AGWAY STORE

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 ○ F-231
 ○ P-2
 ▲ S-2
 ◆ W-2

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Figure 2

Comparison of PCE Concentrations Over Time

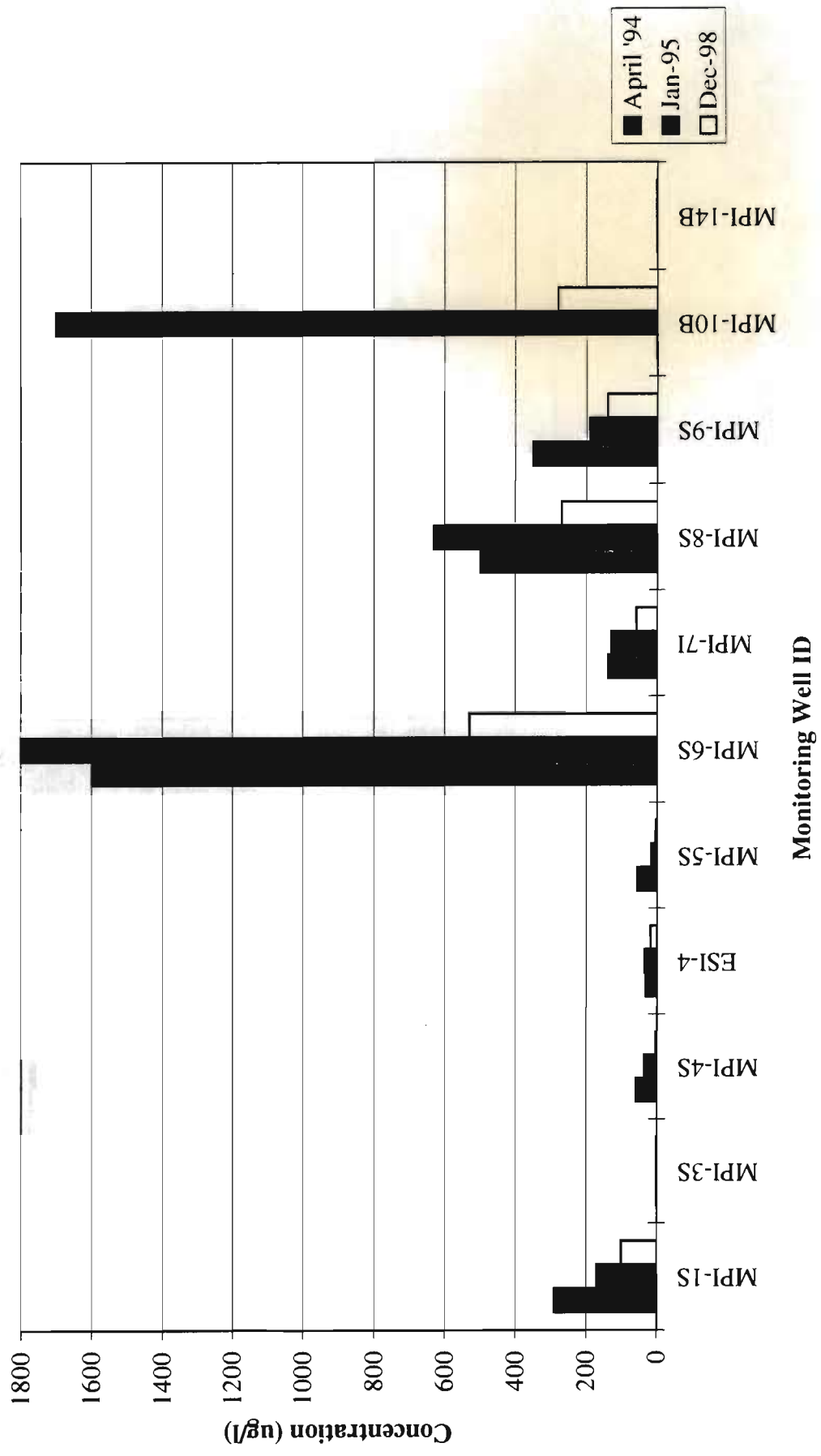


Figure 3

Comparison of TCE Concentrations Over Time

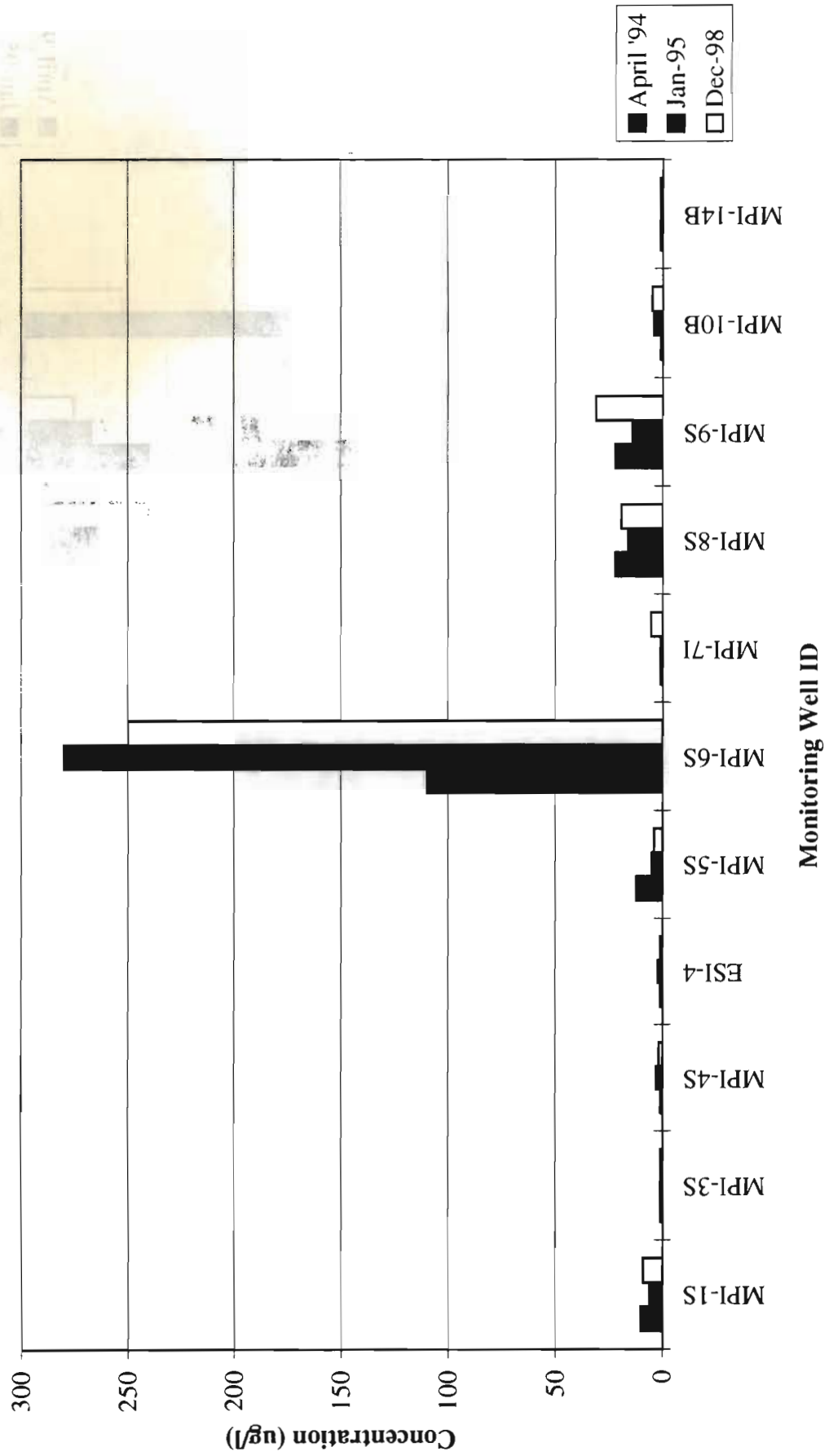


Figure 4

Comparison of 1,2-DCE Concentrations Over Time

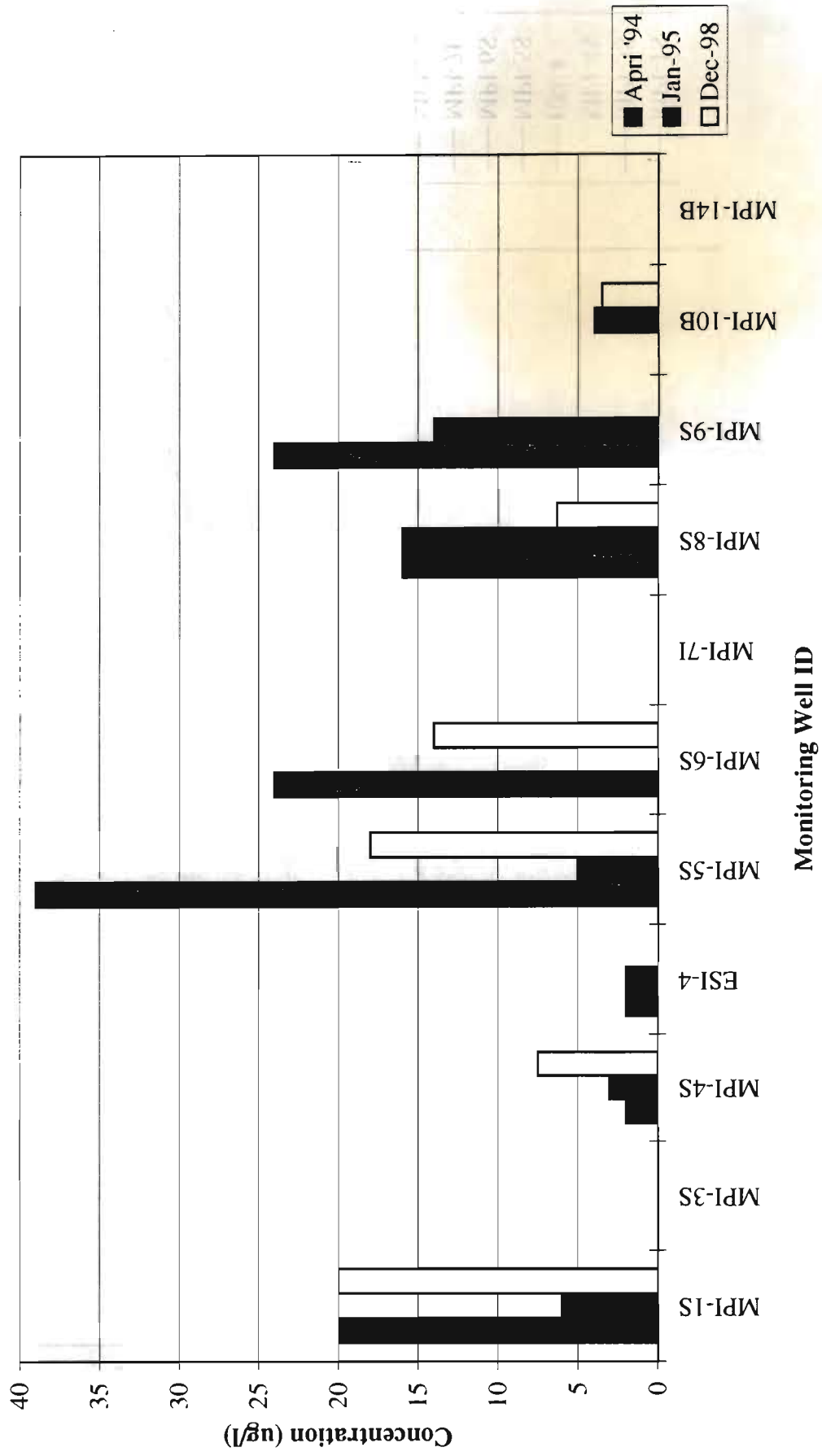


Figure 5

Comparison of Redox Values Over Time

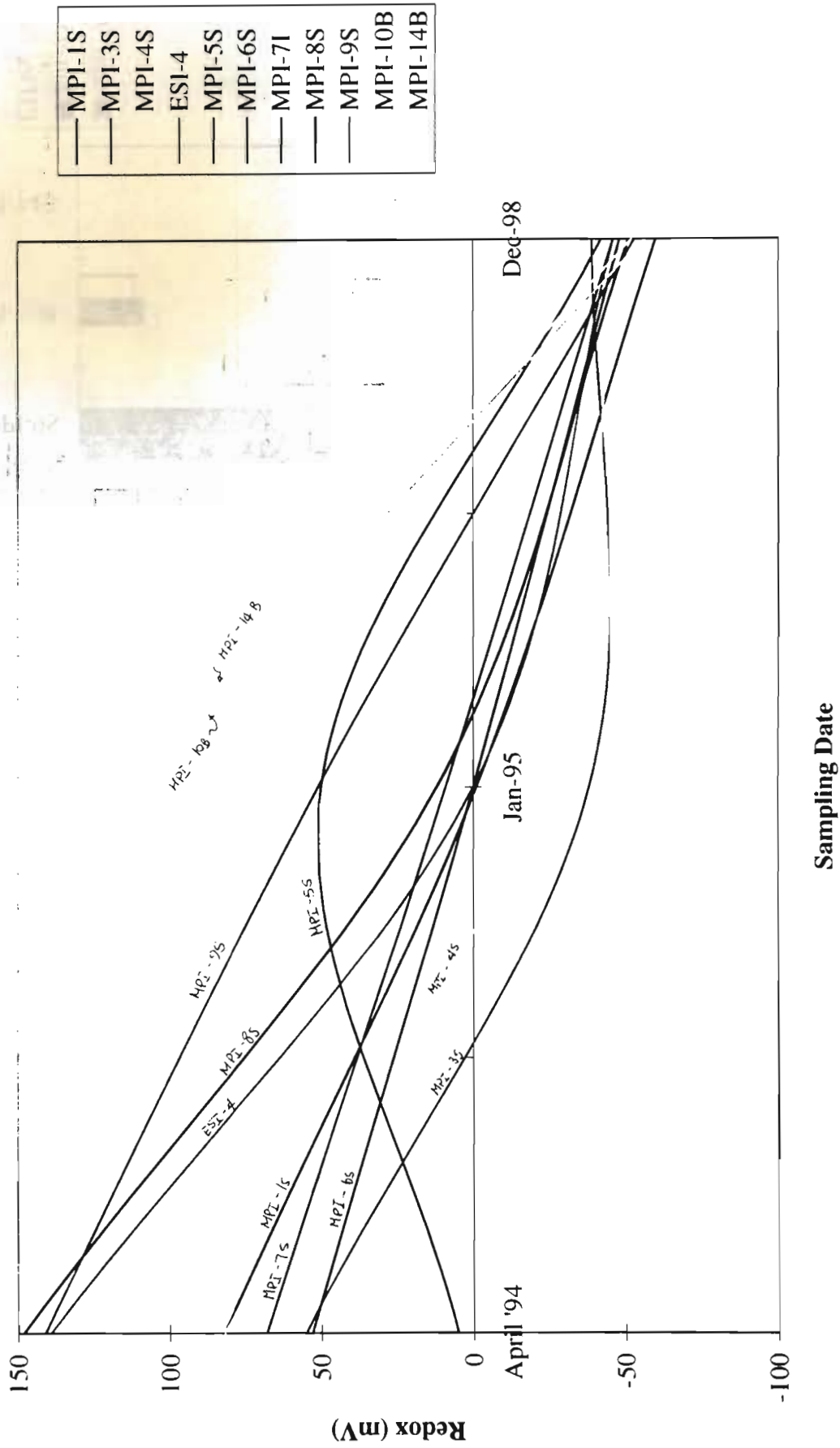


TABLE 1
 MR. C'S DRY CLEANERS
 PRE-DESIGN INVESTIGATION GROUNDWATER SAMPLING RESULTS
 DECEMBER 9-10, 1998

WELL NUMBER	MPI-1S	MPI-3S	MPI-4S	ESI-4	MPI-5S	MPI-6S	MPI-7	MPI-8S	MPI-9S	MPI-10B	MPI-14B	MPI-15B
pH	7.43	7.03	7.17	7.18	7.14	7.22	7.12	7.26	7.33	7.32	7.26	NA
INORGANICS (mg/L)												
Iron	1.79	2.00	6.58	4.18	2.74	6.97	1.55	0.56	18.30	7.54	1.06	6.16
Alkalinity as CaCO ₃	362	322	340	308	248	318	312	288	228	240	288	332
VOLATILE ORGANICS (ug/L)												
Methylene Chloride	< 2	< 2	1.1	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Bromochloromethane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	25	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1	< 1	< 1	5.4	0.9	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	8.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.6	< 1	< 1	< 1	< 1
Toluene	< 1	< 1	1.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3.2	< 1	< 1	< 1	< 1	25	< 1	11	< 1	10	< 1	35
Ethylbenzene	< 1	< 1	5.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl Chloride	37	< 1	< 1	< 1	9.4	< 1	< 1	< 1	5.9	< 1	< 1	< 1
1,1-Dichloroethene	< 1	< 1	< 1	< 1	< 1	6.7	< 1	< 1	< 1	< 1	< 1	9
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1	11	< 1	< 1	< 1	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	20	< 1	7.5	< 1	18	14	< 1	6.3	< 1	3.5	< 1	18
Trichloroethene	9.1	< 1	1.7	< 1	3.9	250	5.4	19	31	4.8	< 1	340
Tetrachloroethene	100	< 1	2.8	18	2.8	530	59	270	140	280	< 1	710
Total - PCE and Breakdown Products	166	ND	12	18	45	801	64	296	150	288	ND	1077

Notes:

- Analytical results are listed for only those compounds present at a concentration greater than the instrument detection limit in at least one well.
- The sample designated as MPI-15B is a duplicate of sample of MPI-6S.

	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	1	2	3	4	5	6	7	8	9	10
3	1	2	3	4	5	6	7	8	9	10
4	1	2	3	4	5	6	7	8	9	10
5	1	2	3	4	5	6	7	8	9	10
6	1	2	3	4	5	6	7	8	9	10
7	1	2	3	4	5	6	7	8	9	10
8	1	2	3	4	5	6	7	8	9	10
9	1	2	3	4	5	6	7	8	9	10
10	1	2	3	4	5	6	7	8	9	10

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**SECTION 5
PRE-DESIGN INVESTIGATION – APRIL 1999**

Figure 1	Shallow Tetrachloroethene and BTEX Plumes over Time
Figure 2	Extent of Negative Oxidation/Reduction Potentials April 1999
Figure 3	Extent of Negative Oxidation/Reduction Potentials April 1999
Table 1	Summary of Groundwater Sampling Results
Table 2	Summary of Bioattenuation Parameter Results

This section also includes a monitoring well sheet for monitoring well MPI-15B.

- APRIL 1990

1. The Board of Directors
2. The Board of Directors
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Table 1
 Mr. C's Dry Cleaners Site - East Aurora, NY
 Summary of Groundwater Sampling Results for April 1999 Sampling Event

WELL NUMBER	ESI-3	HP-1-99	HP-2-99	MPI-4S	MPI-4I	MPI-4D	MPI-5S	MPI-5I	MPI-6S ⁽¹⁾
INORGANICS (mg/L)									
Iron	22.8	78.9	189	3.5	1.74	4.17	1.55	1.96	5.81
Alkalinity as CaCO ₃	214	438	350	300	282	150	217	293	300
VOLATILE ORGANICS (ug/L)									
1,1-Dichloroethane	1.3			1.4					
Benzene				7.8			1.1		0.7 J
Toluene		0.6 J		0.9					
Ethylbenzene				6.4					
m&p-Xylenes		0.5 J		1.7					
Vinyl Chloride							19		
1,1-Dichloroethene									12
trans-1,2-Dichloroethene							5.8		1.4
cis-1,2-Dichloroethene	5.8		3.5	8	8.6		13		27
Trichloroethene	2.2			3.4	57 D		5.8		350
Tetrachloroethene	1300 D	0.8 J	1.2	17	210 D	3.6	6.6		9200 E
Total - PCE and Breakdown Products	1308	0.8	4.7	28.4	275.6	3.6	50.2	0	9590.4

Notes:

Blank space indicates parameter was not detected.

Analytical results are listed for only those compounds present at concentrations greater than the instrument detection limit in at least one well.

(1) Diluted results for tetrachloroethene in MPI-6S in the December 1998 and April 1999 sampling events were 10600 and 9200 ug/L, respectively.

WELL NUMBER	MPI-7	MPI-8S	MPI-9S	MPI-10B	MPI-13B	MPI-14B	MPI-15B	OW-B	OW-A
INORGANICS (mg/L)									
Iron	2.35	0.231	1.69	2.79	12.5	0.248	126	7.03	19
Alkalinity as CaCO ₃	277	242	237	191	362	247	475	316	252
VOLATILE ORGANICS (ug/L)									
1,1-Dichloroethane				0.6 J					
Benzene			0.8 J						
Toluene									
Ethylbenzene									
m&p-Xylenes									
Vinyl Chloride			10			0.8 J			
1,1-Dichloroethene								1.3	
trans-1,2-Dichloroethene		2.7	10						0.8 J
cis-1,2-Dichloroethene		7.2	26	4.2		1.4		4.7 E	3
Trichloroethene	5.5	16	33 D	4.2	0.5 J			4.3 JD	3.6
Tetrachloroethene	53 E	470 D	230 D	610 D	4.2	2.1	2.2	63 D	67 E
Total - PCE and Breakdown Products	58.5	495.9	309	618.4	4.7	4.3	2.2	73.3	74.4

Notes:

Blank space indicates parameter was not detected.

Analytical results are listed for only those compounds present at concentrations greater than the instrument detection limit in at least one well.

Table 2
Mr. C's Dry Cleaners Site - East Aurora, NY
Summary of Bioattenuation Parameter Results for April 1999 Groundwater Sampling Event

WELL NUMBER	ESI-3	HP-1-99	HP-2-99	MPI-4S	MPI-4I	MPI-4D	MPI-5S	MPI-5I	MPI-6S ⁽¹⁾
Total Organic Carbon	13.7	27.1	<	<	10.0	<	10.0	15.6	<
Chloride	219	195	244	778.0	303	5	125	338	333
Biochemical Oxygen Demand	12	21	24	12	7	10	7	9	24
Chemical Oxygen Demand	160	77	108	18	12	24	18	35	26
Sulfate	16.3	<	1.0	32.7	76.2	10.3	19.1	103.0	73.5

Notes:
Blank space indicates parameter was not detected.
Results are in mg/L unit unless otherwise specified.
Analytical results are listed for only those compounds present at concentrations greater than the instrument detection limit in at least one well.

WELL NUMBER	MPI-7I	MPI-8S	MPI-9S	MPI-10B	MPI-13B	MPI-14B	MPI-15B	OW-6N	OW-7N
Total Organic Carbon	25.6	14.5	<	10.0	<	10.0	36.1	<	12.5
Chloride	374	248	170	113	230	662	241	226	255
Biochemical Oxygen Demand	6	8	7	9	21	7	21	9	22
Chemical Oxygen Demand	17	6	8	12	38	16	160	22	139
Sulfate	130.0	64.8	44.9	19.8	74.4	70.9	103.0	53.9	51.3

Notes:
Blank space indicates parameter was not detected.
Results are in mg/L unit unless otherwise specified.
Analytical results are listed for only those compounds present at concentrations greater than the instrument detection limit in at least one well.

PIRME

MONITORING WELL SHEET

PROJECT MR C's Supplemental Inv. START DATE 4/6/99 END DATE 4/6/99

DRILLING CO. Maxim Tech

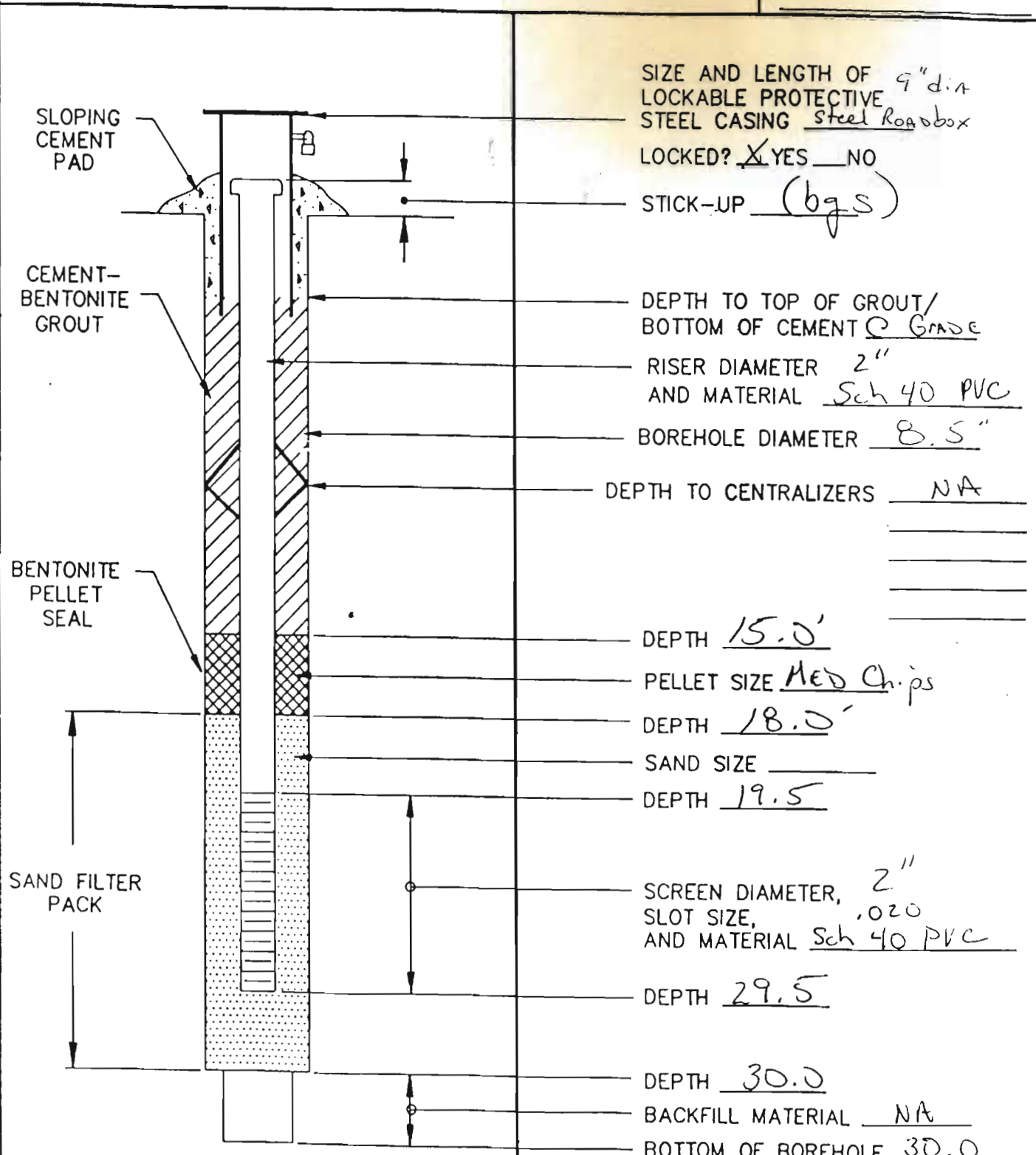
PROJECT NO. 0266-336 FIELD GEOLOGIST J.P. Hill

DRILLER(S) Ron Brown

DRILLING METHOD(S) 4 1/4" HSA

LOCATION East Aurora

DEVELOPMENT METHOD(S) _____



SIZE AND LENGTH OF LOCKABLE PROTECTIVE STEEL CASING 9" dia Steel Roadbox

LOCKED? YES NO

STICK-UP (bgs)

DEPTH TO TOP OF GROUT/ BOTTOM OF CEMENT Grade

RISER DIAMETER 2" AND MATERIAL Sch 40 PVC

BOREHOLE DIAMETER 8.5"

DEPTH TO CENTRALIZERS NA

DEPTH 15.0'

PELLET SIZE Med Chips

DEPTH 18.0'

SAND SIZE _____

DEPTH 19.5'

SCREEN DIAMETER, 2" SLOT SIZE, .020 AND MATERIAL Sch 40 PVC

DEPTH 29.5'

DEPTH 30.0'

BACKFILL MATERIAL NA

BOTTOM OF BOREHOLE 30.0'

NOTE: DEPTHS ARE FEET BELOW GRADE

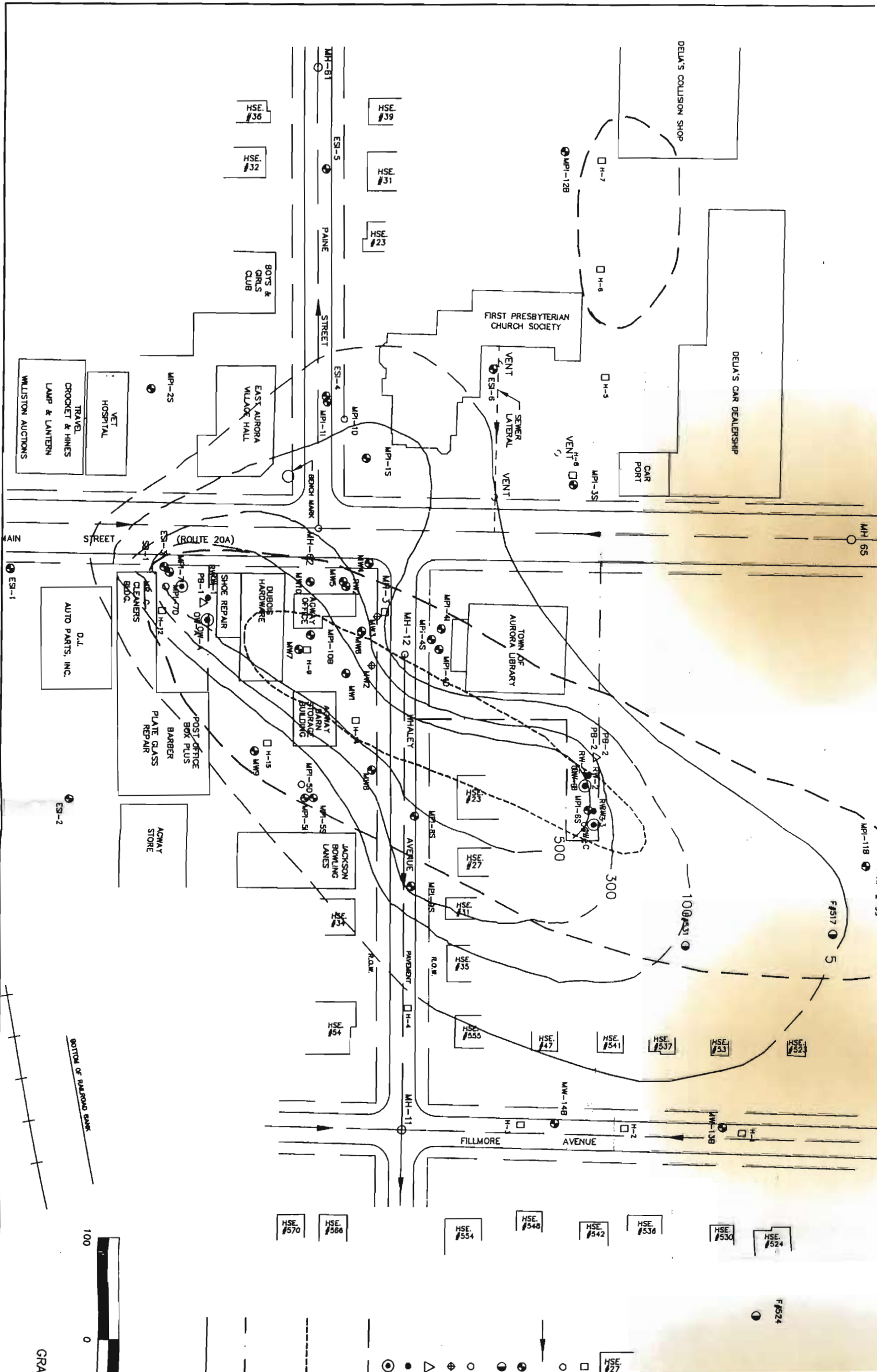
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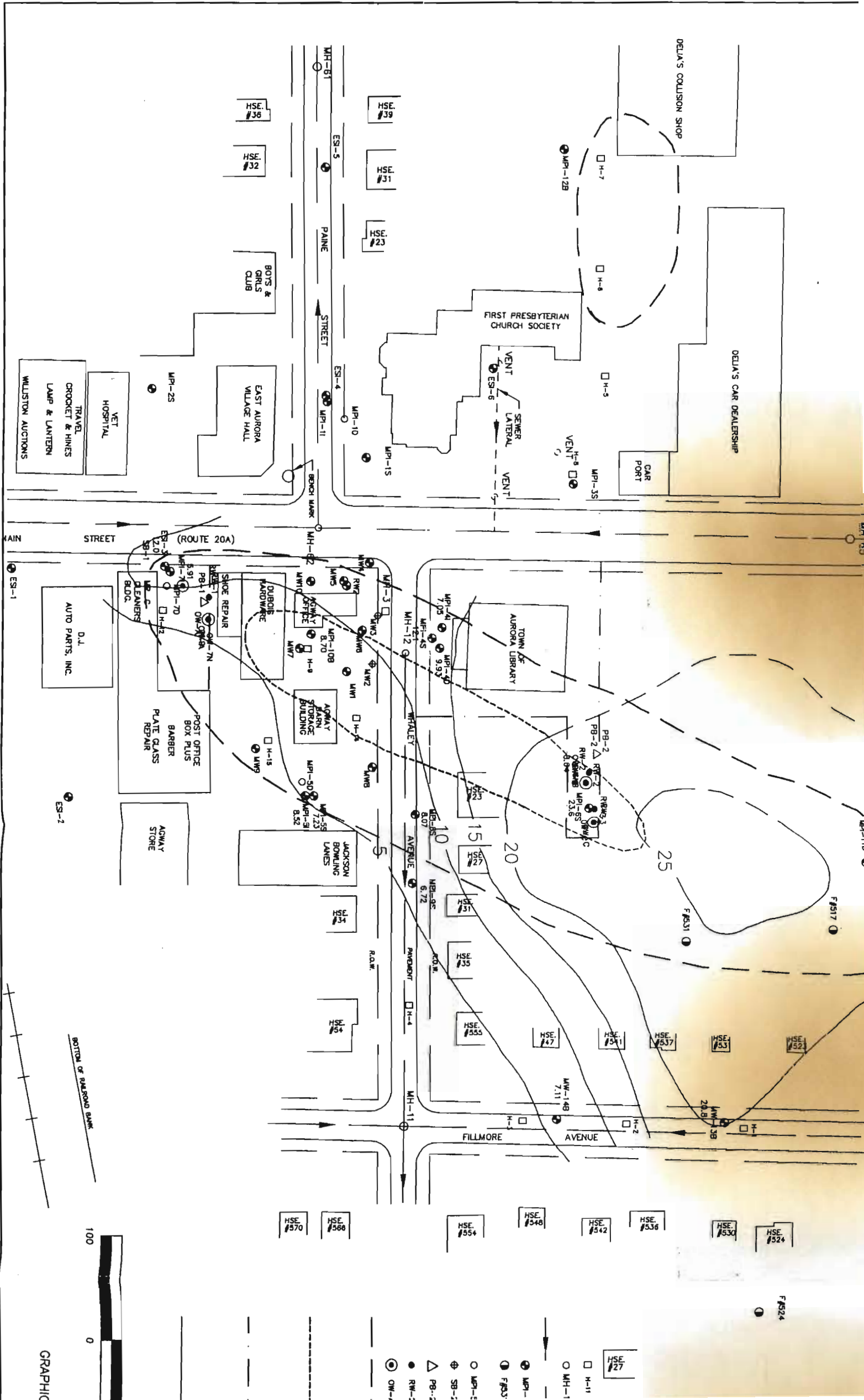
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REMARKS	

LOCKED YES

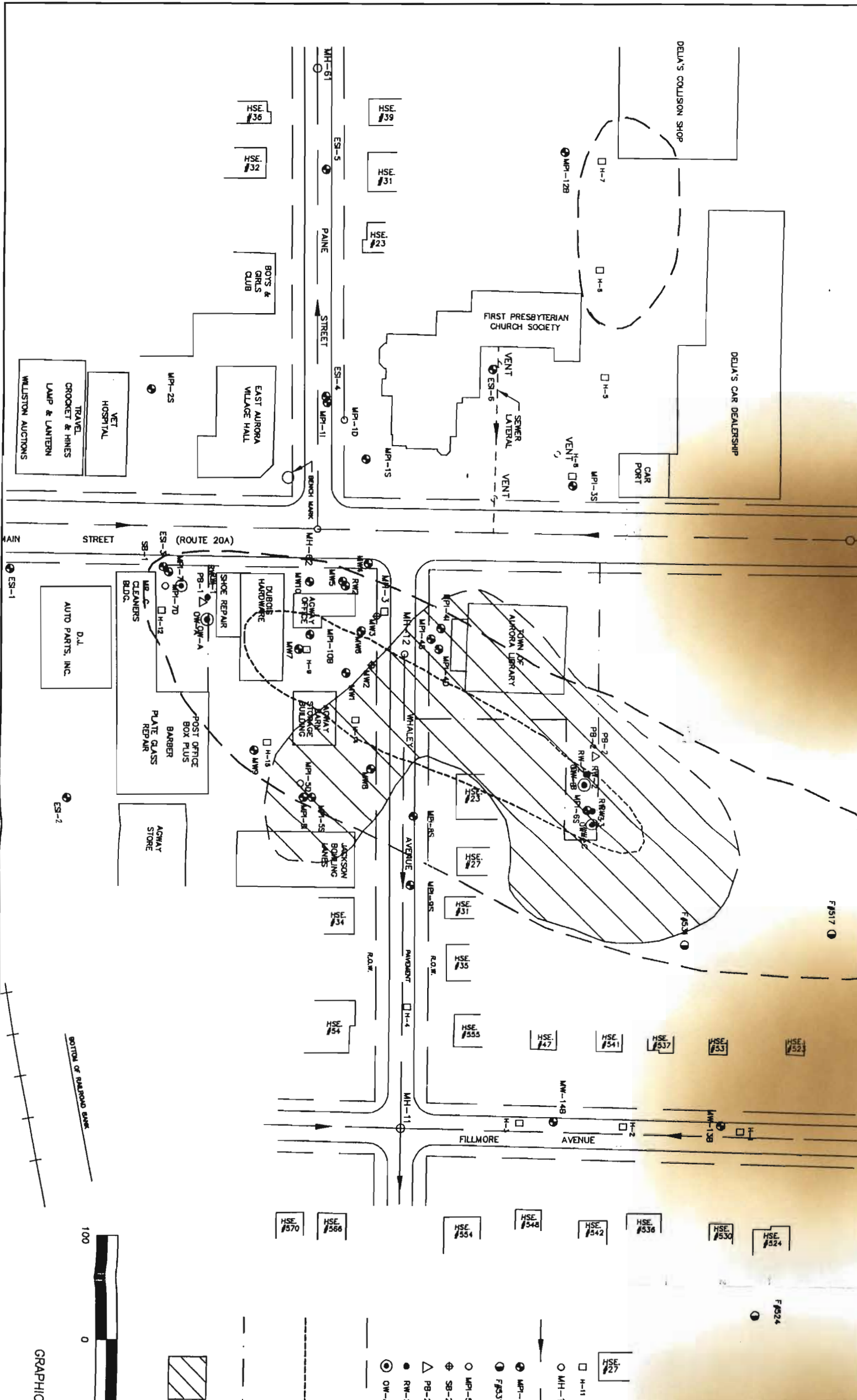
LOCKABLE PROTECTIVE

LOCKING DEVICE





MICROM



GRAPHIC



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