Report.hw.130050.2005-05-02.URS Well and GW results.pdf

FRANKLIN - URS
WELLS + GW RESULTS

3

Cdtc

From: Frank DeVita <FDeVita@db-eng.com>
To: "Jeffery Trad (E-mail)" <jetrad@gw.dec.state.ny.us>
Date: 5/2/05 2:38PM
Subject: Franklin Cleaners Site - Site No. 1-30-050 (D&B Job No. 1851) - Shutdown Cycle

Jeff -

As you are aware, the network of on-site and off-site groundwater monitoring wells were sampled by ETG Inc. on April 20, 2005, to evaluate groundwater conditions as part of the proposed shutdown cycle for the above referenced site. Samples collected from FC-1, FC-2, ASM-1 and ASM-2 were analyzed for VOCs by USEPA Method OLM04.2. D&B collected split samples from each of the sampled locations. The results of the analyses of the samples collected from the monitoring wells are tabulated in the attached adobe acrobat file. The results are compared to the NYSDEC Class GA Groundwater Standards and Guidance Values. As can be seen on the attached, each of the wells sampled exhibited concentrations of PCE below the standard of 5 ug/l. In addition, no other VOCs were detected at concentrations above standards and guidance values. As a result, it is recommended that we proceed with the second step of the shutdown cycle which includes collection of vapor phase samples from soil vapor extraction wells SVE-1 and SVE-2 immediately upon restarting the SVE system.

Upon approval by the NYSDEC of the above recommendation, D&B will coordinate with ETG Inc. to schedule restarting the SVE system and the air sampling. Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

<<Sampling Results 4-20-05.pdf>>

> FRANK DEVITA
> Dvirka and Bartilucci Consulting Engineers
> 330 Crossways Park Drive
> Woodbury, New York 11797
> 516-364-9890;9045(Fax)
> fdevita@db-eng.com
>

CC: Rich Caspe <RCaspe@db-eng.com>, Kenneth Wenz <KWenz@db-eng.com>, Project Correspondence <PCorrespondence@db-eng.com>

TABLE 1
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004184 / SITE No. 1-30-050
ANALYTICAL SAMPLE RESULTS

SAMPLE ID	ASM-1		ASM-2		FC-1		NYSDEC
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	Class GA
DATE OF COLLECTION	4/20/05	4/20/05	4/20/05	4/20/05	4/20/05	4/20/05	Groundwater
COLLECTED BY	EP&S	D&B	EP&S	D&B	EP&S	D&B	Standard and
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Guidance Values
VOCs							(ug/L)
Dichlorodifluormethane	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	5 ST
Vinyl chloride	U	U	U	U	U	U	2 ST
Bromomethane	U	U	U	U	U	U	5 ST
Chloroethane	U	U	U	U	U	U	5 ST
Trichlorofluoromethane	U	U	U	U	U	U	5 ST
1,1-Dichloroethene	U	U	U	U	U	U	5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	5 ST
Acetone	U	U	U	U	U	U	50 ST
Carbon disulfide	U	U	U	U	U	2 J	60 GV
Methyl acetate	U	U	U	U	U	U	--
Methylene chloride	U	U	U	U	U	U	5 ST
trans 1,2-Dichloroethene	U	U	U	U	U	U	5 ST
Methyl-tert butyl ether	U	U	U	U	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	5 ST
cis-1,2-Dichloroethene	U	U	U	U	U	U	5 ST
2-Butanone	U	U	U	U	U	U	50 GV
Chloroform	U	U	U	U	U	U	7 ST
1,1,1-Trichlorethane	U	U	U	U	U	U	5 ST
Cyclohexane	U	U	U	U	U	U	--
Carbon tetrachloride	U	U	U	U	U	U	5 ST
Benzene	U	U	U	U	U	U	1 ST
1,2-Dichloroethane	U	U	U	U	U	U	0.6 ST
Trichloroethene	U	U	U	U	U	U	5 ST
Methylcyclohexane	U	U	U	U	U	U	--
1,2-Dichloropropane	U	U	U	U	U	U	1 ST
Bromodichloromethane	U	U	U	U	U	U	50 ST
cis-1,3-Dichloropropene	U	U	U	U	U	U	0.4 ST
4-Methyl-2-pentanone	U	U	U	U	U	U	--
Toluene	U	U	U	U	U	U	5 ST
trans-1,3-Dichloropropene	U	U	U	U	U	U	0.4 ST
1,1,2-Trichloroethane	U	U	U	U	U	U	1 ST
Tetrachloroethene	U	U	3.2 J	U	U	U	5 ST
2-Hexanone	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	50 ST
1,2-Dibromoethane	U	U	U	U	U	U	5 ST
Chlorobenzene	U	U	U	U	U	U	5 ST
Ethylbenzene	U	U	U	U	U	U	5 ST
Xylene (total)	U	U	U	U	U	U	5 ST
Styrene	U	U	U	U	U	U	5 ST
Bromoform	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	5 ST
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5 ST
1,3-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,4-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,2-Dichlorobenzene	U	U	U	U	U	U	3 ST
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	0.04 ST
1,2,4-Trichlorobenzene	U	U	U	U	U	U	5 ST

NOTES:
ug/L = Microgram per liter
GV: Guidance Value
ST: Standard Value
--: Not established
Concentration exceeds Groundwater Standard or Guidance Value

QUALIFIERS:
U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated

TABLE 1 (Continued)
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004184 / SITE No. 1-30-050
ANALYTICAL SAMPLE RESULTS

SAMPLE ID	FC-2						NYSDEC Class GA Groundwater Standards and Guidance Values (ug/L)
SAMPLE TYPE	WATER	WATER					
DATE OF COLLECTION	4/20/05	4/20/05					
COLLECTED BY	EP&S	D&B					
UNITS	(ug/L)	(ug/L)					
VOCs							
Dichlorodifluormethane	U	U					5 GV
Chloromethane	U	U					5 ST
Vinyl chloride	U	U					2 ST
Bromomethane	U	U					5 ST
Chloroethane	U	U					5 ST
Trichlorofluoromethane	U	U					5 ST
1,1-Dichloroethene	U	U					5 ST
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U					5 ST
Acetone	U	U					50 ST
Carbon disulfide	U	U					60 GV
Methyl acetate	U	U					--
Methylene chloride	U	U					5 ST
trans 1,2-Dichloroethene	U	U					5 ST
Methyl-tert butyl ether	U	U					10 GV
1,1-Dichloroethane	U	U					5 ST
cis-1,2-Dichloroethene	U	U					5 ST
2-Butanone	U	U					50 GV
Chloroform	U	U					7 ST
1,1,1-Trichlorethane	U	U					5 ST
Cyclohexane	U	U					--
Carbon tetrachloride	U	U					5 ST
Benzene	U	U					1 ST
1,2-Dichloroethane	U	U					0.6 ST
Trichloroethene	U	U					5 ST
Methylcyclohexane	U	U					--
1,2-Dichloropropane	U	U					1 ST
Bromodichloromethane	U	U					50 ST
cis-1,3-Dichloropropene	U	U					0.4 ST
4-Methyl-2-pentanone	U	U					--
Toluene	U	U					5 ST
trans-1,3-Dichloropropene	U	U					0.4 ST
1,1,2-Trichloroethane	U	U					1 ST
Tetrachloroethene	U	U					5 ST
2-Hexanone	U	U					50 GV
Dibromochloromethane	U	U					50 ST
1,2-Dibromoethane	U	U					5 ST
Chlorobenzene	U	U					5 ST
Ethylbenzene	U	U					5 ST
Xylene (total)	U	U					5 ST
Styrene	U	U					5 ST
Bromoform	U	U					50 GV
Isopropylbenzene	U	U					5 ST
1,1,2,2-Tetrachloroethane	U	U					5 ST
1,3-Dichlorobenzene	U	U					3 ST
1,4-Dichlorobenzene	U	U					3 ST
1,2-Dichlorobenzene	U	U					3 ST
1,2-Dibromo-3-chloropropane	U	U					0.04 ST
1,2,4-Trichlorobenzene	U	U					5 ST

NOTES:
ug/L = Microgram per liter
GV: Guidance Value
ST: Standard Value
--: Not established
Concentration exceeds Groundwater Standard or Guidance Value

QUALIFIERS:
U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated

TABLE 1 (Continued)
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004184 / SITE No. 1-30-050
ANALYTICAL SAMPLE RESULTS

SAMPLE ID	ASM-1		ASM-2		FC-1		NYSDEC
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	Class GA
DATE OF COLLECTION	4/20/05	4/20/05	4/20/05	4/20/05	4/20/05	4/20/05	Groundwater
COLLECTED BY	EP&S	D&B	EP&S	D&B	EP&S	D&B	Standard and
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Guidance Values
							(ug/L)
Iron	U	NS	188	NS	320	NS	300 ST*
Manganese	6.0 J	NS	14.8 J	NS	10.1 J	NS	300 ST*

SAMPLE ID	FC-2						NYSDEC
SAMPLE TYPE	WATER	WATER					Class GA
DATE OF COLLECTION	4/20/05	4/20/05					Groundwater
COLLECTED BY	EP&S	D&B					Standard and
UNITS	(ug/L)	(ug/L)					Guidance Values
							(ug/L)
Iron	151	NS					300 ST*
Manganese	5.6 J	NS					300 ST*

NOTES:

ug/L = Microgram per liter
GV: Guidance Value
ST: Standard Value

NS: Not Sampled
--: Not established

Concentration exceeds Groundwater Standard or Guidance Value

QUALIFIERS:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated

*: Class GA Groundwater Standard is 500 ug/L for sum of Iron and Manganese

edoc

Dvirka and Bartilucci
CONSULTING ENGINEERS

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e-mail: findingsolutions@db-eng.com

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January 21, 2004

Jeffrey E. Trad, P.E.
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Franklin Cleaners Site
NYSDEC Site No. 1-30-050
Work Assignment No. D003600-45
D&B No. 2307

Dear Mr. Trad:

Groundwater monitoring wells ASMW-6 and ASMW-7 were installed between December 6 and 17, 2004, in accordance with the Work Plan for the referenced work assignment. Enclosed please find the following, which documents the observations recorded during installation of the wells, and includes well construction details and survey data.

- Attachment A - ASMW-6 Soil Boring Log
- Attachment B - Groundwater Monitoring Well Construction Logs
- Attachment C - Survey Data and Figure Showing Surveyed Well Locations

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

Frank DeVita

Frank DeVita
Project Manager

FD/ld
Enclosure
cc: D. Glass (D&B)
♦2307\FD05LTR-01.DOC(R02)

ATTACHMENT A

ASMW-6 SOIL BORING LOG

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2307
Project Name: FRANKLIN CLEANERS SITE

Boring No.: ASMW-6
Sheet 1 of 2
By: Chris Morris

Drilling Contractor: Unitech
Driller: Jim Evans
Drill Rig: Midway 1500
Date Started: 12/7/04

Geologist: Chris Morris
Drilling Method: Mud Rotary
Drive Hammer Weight: 140 lb
Date Completed: 12/8/04

Boring Completion Depth: 138'
Ground Surface Elevation: ---
Boring Diameter: 8"

Depth (ft.)	Soil Sample No.	Type	Blows Per 6"	Rec. ~~(feet)~~	PID Per 6" (ppm)	Sample Description	USCS
-0- 100	1	SS	N/A	5"	N/A	f-m sand brown/orange	
102	2	SS	25 50 53 56	10"		f. sand br./or. w/ some silt, tr. clay. Alternating lenses of br/or. & grey.	
104	3	SS	20 35 20 15	3"		br./or. f sand w/ little silt	
106	4	SS	40 43 44 57	8"		br/or. f. sand w/ little silt bot. 3" grey. f. sand w/ little silt	
108	5	SS	55 75 100/3 NA	5"		br/gy f-m sand w/ little silt	
110	6	SS	50 50 50 50	4"		coarse gravel	
112	7	SS	40 40 50 65	12"		Alternating bands of light and dk. grey fine sand w/ some silt	
114	8	SS	N/A	15"		TOP 10" - SAA bot. 5" SAA w/ lenses (< 1/4") of dk. grey silty clay and lignite	
116	9	SS	25 40 48 56	16"		Top 10" - SAA bot. 6" - SAA w/ thicker lenses (1/4" - 1/2") of silty clay & lignite.	
118	10	SS	30 40 70 70	7"		SAA - (Top 10" of 116-118)	
120							

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:

Dvirka and Bartilucci CONSULTING ENGINEERS

Project No.: 2307 Project Name: FRANKLIN CLEANERS Site		Boring No.: ASMW-6 Sheet 2 of 2 By: Chris Morris
Drilling Contractor: Unitech Driller: Jim Evans Drill Rig: Midway 1500 Date Started: 12/7/04	Geologist: Chris Morris Drilling Method: Mud Rotary Drive Hammer Weight: 140 lb Date Completed: 12/8/04	Boring Completion Depth: 138' Ground Surface Elevation: --- Boring Diameter: 8"

Depth (ft.)	Soil Sample No.	Type	Blows Per 6"	Rec. (feet)	PID Per 6" (ppm)	Sample Description	USCS
132	11	SS	100 100/5 N/A N/A	6"	N/A	grey f-m sand w/ little silt & one small lense (1/4") of dk. grey silty clay at bottom.	
134'	12	SS	40 60 100/5 N/A	10"		Top 8" Dk grey silty clay w/ small lenses (<1/8") of f. silty sand bot. 2" grey. f. silty sand w/ small lenses (1/4") of silty clay	
136'	13	SS	100 100 50 80	15"		Alt. lenses of dk grey silty clay (1/4") & f-m grey sand w/ some silt (136'-137') grey f. sand w/ some silt & small lenses (1/4") of dk grey silty clay (137'-138')	
138'							
-5-							
-6-							
-7-							
-8-							
-9-							
-10-							

Sample Types:
SS = Split Spoon
HA = Hand Auger
GP = Geoprobe Sampler
CC = Concrete Core

NOTES:

ATTACHMENT B

GROUNDWATER MONITORING WELL CONSTRUCTION LOGS

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Franklin Cleaners Site Job No. 2307 Well No. ASMW-6

Total Depth 138' Surface Elevation 43.64 Top Riser Elevation 43.33

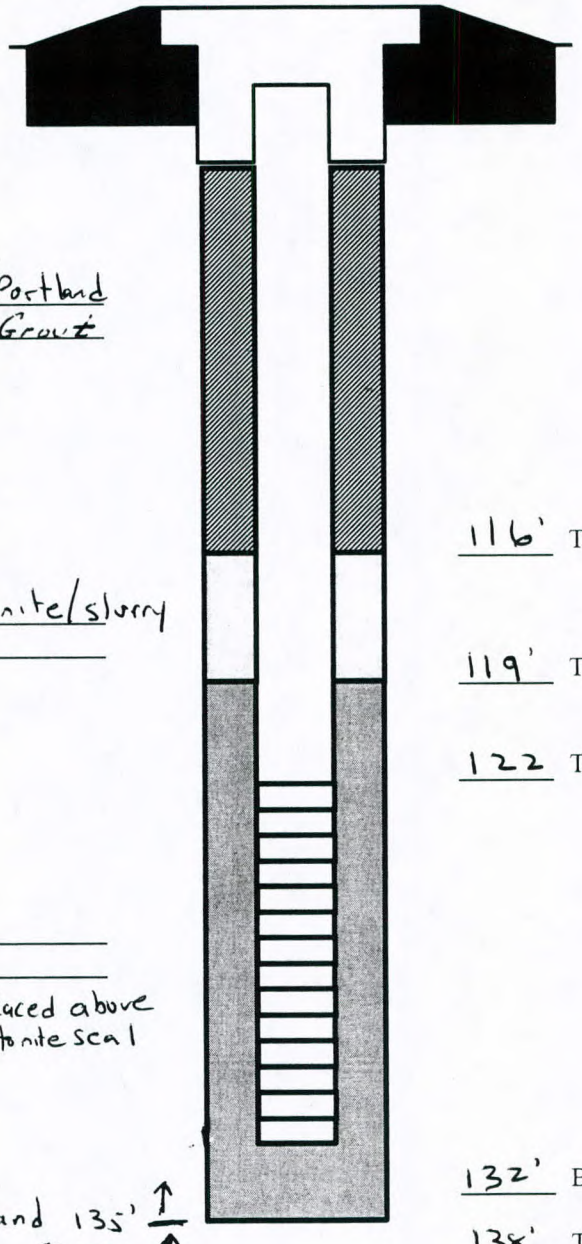
Water Levels (Depth, Date, Time) 20.30, 12/16/04, 1329 Date Installed 12/8/04

Riser Dia. 2" Material PVC Length 122'

Screen Dia. 2" Material PVC Length 10' Slot Size 0.020

SCHEMATIC

Surface Seal Type
Concrete / Flush mount well cap



Grout Type Bentonite/Portland Cement Grout

116' Top Seal

Seal Type Bentonite/slurry

119' Top Sand Pack

122 Top Screen

Sand Pack Type
Size #1
6" #00 placed above & below bentonite seal

132' Bottom Screen

#1 sand 13.5'
Bentonite Slurry
138'

138' Total Depth of Boring

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Well Construction Log

Site Franklin Cleaners Site Job No. 2307 Well No. ASMW-7

Total Depth 250 Surface Elevation 43.56 Top Riser Elevation 43.21

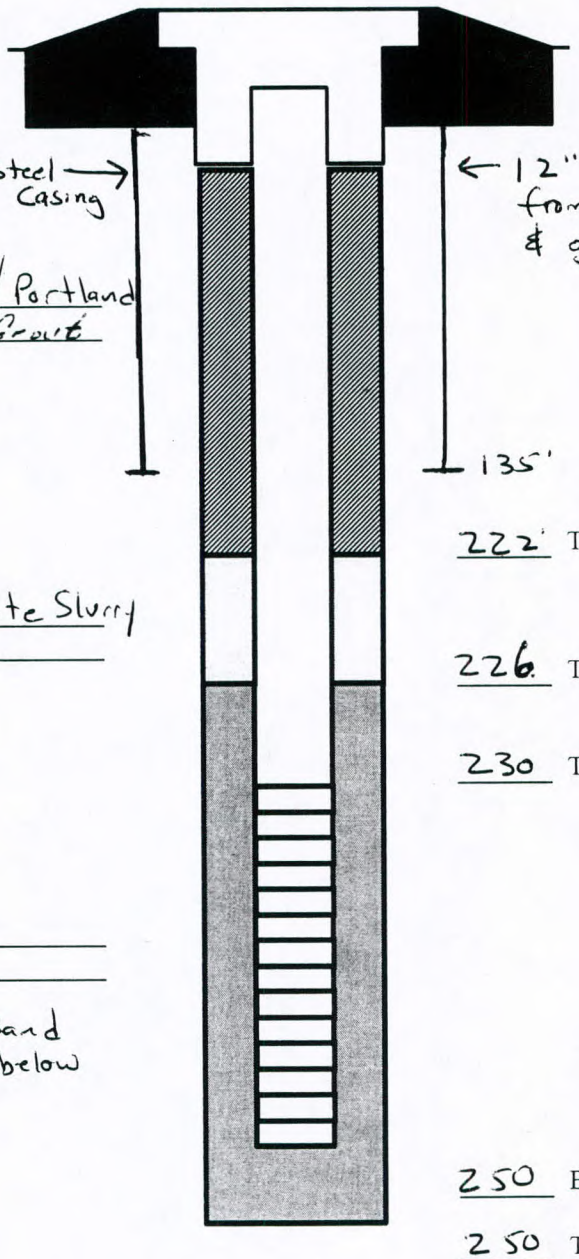
Water Levels (Depth, Date, Time) 25.08, 12/16/04, 1201 Date Installed 12/15/04

Riser Dia. 6" Material PVC Length 230

Screen Dia. 6" Material St. Steel Length 20 Slot Size 0.020

SCHEMATIC

Surface Seal Type
Concrete Flush mount well cup



Grout Type Bentonite/Portland Cement Grout

222' Top Seal

Seal Type Bentonite Slurry

226 Top Sand Pack

230 Top Screen

Sand Pack Type
Size #1

1' of #00 sand placed above & below bentonite seal

250 Bottom Screen

250 Total Depth of Boring

ATTACHMENT C

FIGURE SHOWING SURVEYED WELL LOCATIONS AND SURVEY DATA

GROUNDWATER MONITORING WELLS				
MONITORING WELL I.D. NUMBER	DEPTH OF WELL MEASURED FROM TOP OF CASING	SCREEN LENGTH	GROUND SURFACE ELEVATION	TOP OF CASING ELEVATION
ASMW–1	90'–0"	10'–0"	47.88	47.19
ASMW–2	90'–0"	10'–0"	46.74	46.16
ASMW–3	90'–0"	10'–0"	47.13	48.81
ASMW–4	110'–0"	10'–0"	44.11	43.93
ASMW–5	133'–0"	10'–0"	44.42	44.03
ASMW–6	132'–0"	10'–0"	43.64	43.33
ASMW–7	250'–0"	20'–0"	43.56	43.21

TAX LOT 36–C–221
MERCY HOSPITAL ASSOCIATION
LIBER 4894 PAGE 133

TAX LOT 36–C–219

ASMW–1
ASMW–2
ASMW–3
EW–1
EW–2
ASMW–4
ASMW–5
ASMW–6
ASMW–7
MCOL–1

SOUTHERN STATE PARKWAY

N/F STATE OF NEW YORK

RYAN MEDICAL ARTS BUILDING 4–STORY BRICK

MACADAM PARKING AREA

GRASS AREA

TENNIS COURTS

P–50

WILLIAM A. CASEY CENTER 2–STORY BRICK BUILDING

CONTRACT LIMITS

APPROXIMATE LOCATION GAS LINE AS SHOWN IN FIELD BY MOLLOY COLLEGE PERSONNEL VERIFY IN FIELD BEFORE DIGGING

S73°04'22"E 412.12'

N19°21'38"E 501.74'

N73°04'22"W 412.12'

N19°21'38"E 242.07'

835.27'

CONCRETE MONUMENT FOUND

CONCRETE MONUMENT FOUND 8.0' WEST OF LINE

N–3745
(WELL 4B)

N–72
(WELL 4A)

N–8218
(WELL 4C)

LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- FORMER GROUNDWATER PROBE

0 120 240

SCALE IN FEET

FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

MONITORING WELL LOCATION MAP

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE 1

F:\2307\Franklin Cleaners Site\Monitoring Well Location Map\FIGURE 1.dwg, 01/21/05 03:08:09 PM, FDeVita

Frank DeVita

From: Marie Webster [mbwebster.yec@verizon.net]
Sent: Tuesday, January 04, 2005 4:55 PM
To: Frank DeVita
Subject: Fw: Franklin Cleaners

FRANKLIN.txt

Hi Frank,
The attached file contains the coordinates for the 2 Franklin Cleaners wells, the elevations are:
ASMW-6 Casing 43.64, PVC 43.33
ASMW-7 Casing 43.56, PVC 43.21

I am not sure if you wanted me to map it. Let me know.

-Marie Webster

1047,167768.81361,2103057.03757,0.00000,ASMW-7
1048,167765.36483,2103071.67314,0.00000,ASMW-6

Dvirka and Bartilucci
CONSULTING ENGINEERS

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December 4, 2003

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Michael Neuberger, P.E.
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Charles J. Wachsmuth, P.E.
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Jeffery E. Trad, P.E.
Bureau of Construction Services
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Franklin Cleaners Site
NYSDEC Contract No. D004264
Site No. 1-30-050
D&B No. 1851

Dear Mr. Trad:

Enclosed please find a table summarizing the analytical results for groundwater samples collected by URS on June 19 and June 23, 2003, as part of the baseline groundwater sampling event at the above-referenced site. The table also provides analytical results for the split samples collected by this office. A schematic (Figure 1) showing the sample locations has also been enclosed for your reference.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

Frank DeVita

Frank DeVita
Project Manager

FD/RKH/cmc
Enclosures
cc: T. Maher, D&B
R. Heling, D&B
♦1851\FD03(B)LTR.DOC-68(R01)

TABLE 1
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
BASELINE GROUNDWATER SAMPLING ANALYTICAL RESULTS

SAMPLE ID	ASMW-1		ASMW-2		ASMW-3		NYSDEC Class GA Standard and Guidance Values
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	06/23/2003	06/23/2003	06/19/2003	06/19/2003	06/23/2003	06/23/2003	
COLLECTED BY	URS	D&B	URS	D&B	URS	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	
VOCs							
Dichlorodifluormethane	U	NM	U	U	U	NM	5 GV
Chloromethane	U	NM	U	U	U	NM	5
Vinyl chloride	U	NM	U	U	U	NM	2
Bromomethane	U	NM	U	U	U	NM	5
Chloroethane	U	NM	U	U	U	NM	5
Trichlorofluoromethane	U	NM	U	U	U	NM	5
1,1-Dichloroethene	U	NM	U	U	U	NM	5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	NM	U	U	U	NM	5
Acetone	U	NM	U	U	U	NM	50
Carbon disulfide	U	NM	U	U	U	NM	60 GV
Methyl acetate	U	NM	U	U	U	NM	--
Methylene chloride	U	NM	U	U	U	NM	5
trans 1,2-Dichloroethene	U	NM	U	U	U	NM	5
Methyl-tert butyl ether	U	NM	U	U	1.6 J	NM	10 GV
1,1-Dichloroethane	U	NM	U	U	U	NM	5
cis-1,2-Dichloroethene	U	NM	U	U	U	NM	5
2-Butanone	U	NM	U	U	U	NM	50 GV
Chloroform	U	NM	U	U	U	NM	7
1,1,1-Trichlorethane	1.2 J	NM	U	U	U	NM	5
Cyclohexane	U	NM	U	U	U	NM	--
Carbon tetrachloride	U	NM	U	U	U	NM	5
Benzene	U	NM	U	U	U	NM	1
1,2-Dichloroethane	U	NM	U	U	U	NM	1
Trichloroethene	U	NM	U	U	U	NM	5
Methylcyclohexane	U	NM	U	U	U	NM	--
1,2-Dichloropropane	U	NM	U	U	U	NM	1
Bromodichloromethane	U	NM	U	U	U	NM	50
cis-1,3-Dichloropropene	U	NM	U	U	U	NM	0
4-Methyl-2-pentanone	U	NM	U	U	U	NM	--
Toluene	U	NM	U	U	U	NM	5
trans-1,3-Dichloropropene	U	NM	U	U	U	NM	0
1,1,2-Trichloroethane	U	NM	U	U	U	NM	1
Tetrachloroethene	510 D	NM	87	79	23	NM	5
2-Hexanone	U	NM	U	U	U	NM	50 GV
Dibromochloromethane	U	NM	U	U	U	NM	50
1,2-Dibromoethane	U	NM	U	U	U	NM	5
Chlorobenzene	U	NM	U	U	U	NM	5
Ethylbenzene	U	NM	U	U	U	NM	5
Xylene (total)	U	NM	U	U	U	NM	5
Styrene	U	NM	U	U	U	NM	5
Bromoform	U	NM	U	U	U	NM	50 GV
Isopropylbenzene	U	NM	U	U	U	NM	5
1,1,2,2-Tetrachloroethane	U	NM	U	U	U	NM	5
1,3-Dichlorobenzene	U	NM	U	U	U	NM	3
1,4-Dichlorobenzene	U	NM	U	U	U	NM	3
1,2-Dichlorobenzene	U	NM	U	U	U	NM	3
1,2-Dibromo-3-chloropropane	U	NM	U	U	U	NM	0
1,2,4-Trichlorobenzene	U	NM	U	U	U	NM	5

NOTES:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
ug/L = Microgram per liter
NM: Not Monitored
D: Result taken from reanalysis at a secondary delution
Concentration exceeds Groundwater Standard or Guidance Value
GV: Guidance Value
--: Not established

TABLE 1 (Continued)
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
BASELINE GROUNDWATER SAMPLING ANALYTICAL RESULTS

SAMPLE ID	ASMW-4		ASMW-5				NYSDEC Class GA Standard and Guidance Values
SAMPLE TYPE	WATER	WATER	WATER	WATER			
DATE OF COLLECTION	06/23/2003	06/23/2003	06/23/2003	06/23/2003			
COLLECTED BY	URS	D&B	URS	D&B			
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)			
VOCs							
Dichlorodifluormethane	U	NM	U	NM			5 GV
Chloromethane	U	NM	U	NM			5
Vinyl chloride	U	NM	U	NM			2
Bromomethane	U	NM	U	NM			5
Chloroethane	U	NM	U	NM			5
Trichlorofluoromethane	U	NM	U	NM			5
1,1-Dichloroethene	U	NM	U	NM			5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	NM	U	NM			5
Acetone	U	NM	U	NM			50
Carbon disulfide	U	NM	U	NM			60 GV
Methyl acetate	U	NM	U	NM			--
Methylene chloride	U	NM	U	NM			5
trans 1,2-Dichloroethene	U	NM	U	NM			5
Methyl-tert butyl ether	U	NM	U	NM			10 GV
1,1-Dichloroethane	U	NM	U	NM			5
cis-1,2-Dichloroethene	U	NM	U	NM			5
2-Butanone	U	NM	U	NM			50 GV
Chloroform	4.4 J	NM	U	NM			7
1,1,1-Trichlorethane	U	NM	U	NM			5
Cyclohexane	U	NM	U	NM			--
Carbon tetrachloride	U	NM	U	NM			5
Benzene	U	NM	U	NM			1
1,2-Dichloroethane	U	NM	U	NM			1
Trichloroethene	U	NM	U	NM			5
Methylcyclohexane	U	NM	U	NM			--
1,2-Dichloropropane	U	NM	U	NM			1
Bromodichloromethane	U	NM	U	NM			50
cis-1,3-Dichloropropene	U	NM	U	NM			0
4-Methyl-2-pentanone	U	NM	U	NM			--
Toluene	U	NM	U	NM			5
trans-1,3-Dichloropropene	U	NM	U	NM			0
1,1,2-Trichloroethane	U	NM	U	NM			1
Tetrachloroethene	U	NM	U	NM			5
2-Hexanone	U	NM	U	NM			50 GV
Dibromochloromethane	U	NM	U	NM			50
1,2-Dibromoethane	U	NM	U	NM			5
Chlorobenzene	U	NM	U	NM			5
Ethylbenzene	U	NM	U	NM			5
Xylene (total)	U	NM	U	NM			5
Styrene	U	NM	U	NM			5
Bromoform	U	NM	U	NM			50 GV
Isopropylbenzene	U	NM	U	NM			5
1,1,2,2-Tetrachloroethane	U	NM	U	NM			5
1,3-Dichlorobenzene	U	NM	U	NM			3
1,4-Dichlorobenzene	U	NM	U	NM			3
1,2-Dichlorobenzene	U	NM	U	NM			3
1,2-Dibromo-3-chloropropane	U	NM	U	NM			0
1,2,4-Trichlorobenzene	U	NM	U	NM			5

NOTES:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
ug/L = Microgram per liter
NM: Not Monitored
D: Result taken from reanalysis at a secondary delution
Concentration exceeds Groundwater Standard or Guidance Value
GV: Guidance Value
--: Not established

ASMW–1	
Date sampled	06/23/03
Constituent	
Tetrachloroethene	510D
1,1,1,–trichloroethane	1.2J
Methyl tert–butyl ether	ND
Chloroform	ND
m/p xylene	ND
Methylene chloride	ND
1,1–dichloroethene	ND

ASMW–2		
Date sampled	06/19/03	
Constituent	URS	D&B
Tetrachloroethene	87	79
1,1,1,–trichloroethane	ND	ND
Methyl tert–butyl ether	ND	ND
Chloroform	ND	ND
m/p xylene	ND	ND
Methylene chloride	ND	ND
1,1–dichloroethene	ND	ND

ASMW–3	
Date sampled	06/23/03
Constituent	
Tetrachloroethene	23
1,1,1,–trichloroethane	ND
Methyl tert–butyl ether	1.6J
Chloroform	ND
m/p xylene	ND
Methylene chloride	ND
1,1–dichloroethene	ND

ASMW–4	
Date sampled	06/23/03
Constituent	
Tetrachloroethene	ND
1,1,1,–trichloroethane	ND
Methyl tert–butyl ether	ND
Chloroform	4.1J
m/p xylene	ND
Methylene chloride	ND
1,1–dichloroethene	ND

ASMW–5	
Date sampled	06/23/03
Constituent	
Tetrachloroethene	ND
1,1,1,–trichloroethane	ND
Methyl tert–butyl ether	ND
Chloroform	ND
m/p xylene	ND
Methylene chloride	ND
1,1–dichloroethene	ND

TAX LOT 36–C–221
MERCY HOSPITAL ASSOCIATION
LIBER 4894 PAGE 133

TAX LOT 36–C–104D &
104E MOLLOY CATHOLIC
COLLEGE FOR WOMEN
LIBER 6989 PAGE 585

TAX LOT 36–C–219

ASMW–1
EW–2
ASMW–2
EW–1
ASMW–3
ASMW–4
ASMW–5
MCOL–1
P–50
P–51

SOUTHERN STATE PARKWAY EAST B
N/F
STATE OF NEW YORK

MACADAM
PARKING AREA
GRASS AREA
TENNIS COURTS
MACADAM
PARKING AREA

WILLIAM A.
CASEY
CENTER
2–STORY
BRICK
BUILDING

WILBUR ARTS CENTER
HAYS THEATRE
2–STORY BRICK BUILDING

QUEALY HALL
2–STORY BRICK BUILDING

CONTRACT LIMITS

APPROXIMATE LOCATION GAS LINE
AS SHOWN IN FIELD BY
MOLLOY COLLEGE PERSONNEL
VERIFY IN FIELD BEFORE DIGGING

835.27'
S04°22'E
412.12'
N19°21'38"E
501.74'
242.07'
S15°48'18"W
70.46'
S20°12'08"W
102.26'
S13°55'45"W

N–72
N–3745
N–8218

GROUNDWATER MONITORING WELLS				
WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH	GROUND SURFACE ELEVATION (msl)	TOP OF CASING ELEVATION (msl)
ASMW–1	90'–0"	10'–0"	47.88	47.19
ASMW–2	90'–0"	10'–0"	46.74	46.16
ASMW–3	90'–0"	10'–0"	47.13	48.81
ASMW–4	110'–0"	10'–0"	44.11	43.93
ASMW–5	133'–0"	10'–0"	44.42	44.03

LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- SUPPLY WELL
- FORMER GROUNDWATER PROBE

0 120 240
SCALE IN FEET

ABBREVIATIONS:

D – DILUTED
J – ESTIMATED
ND – NOT DETECTED

NOTES:

1. GROUNDWATER SAMPLES ANALYZED UNDER USEPA METHOD OLM 04.2.
2. ONLY HITS ARE REPORTED. ALL OTHERS ARE NOT DETECTED ABOVE THE MDL.
3. RESULTS ARE REPORTED IN MICROGRAMS PER LITER (PPB)

FRANKLIN CLEANERS SITE
VILLAGE OF ROCKEVILLE CENTRE, NEW YORK

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

BASELINE GROUNDWATER SAMPLING ANALYTICAL RESULTS
JUNE 19+23, 2003

FIGURE 1

cdr

Dvirka and Bartilucci
CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045
e-mail: db-eng@worldnet.att.net

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October 6, 2003

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Jeffery E. Trad, P.E.
Bureau of Construction Services
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Franklin Cleaners Site
NYSDEC Contract No. D004264
Site No. 1-30-050
D&B No. 1851

Dear Mr. Trad:

As requested, groundwater modeling for the above-referenced site has been reviewed to evaluate the capture zone of the groundwater extraction and treatment system based on the current groundwater extraction rates. The purpose of this letter is to document the results of the pump tests for extraction wells EW-1 and EW-2, as well as the results of the groundwater modeling performed by this office.

Pump Test Procedures

The pump test at extraction well EW-1 was conducted on September 8, 2003, beginning at 1:10 p.m. and ending at 2:40 p.m. Monitoring wells PTMW-1, PTMW-2, ASMW-1 and ASMW-2, located at distances of 27, 12, 75 and 245 feet, respectively, from EW-1, were used to monitor drawdown of the water table during the test. Well locations are shown on Figure 1-1. Depth to groundwater was measured at each monitoring well using an electronic water level indicator at 30-minute intervals. Water level measurements and calculated drawdown values are summarized in Table 1.

The pump test at extraction well EW-2 was conducted on September 9, 2003, beginning at 9:10 a.m. and ending at 11:10 a.m. Monitoring wells PTMW-1, PTMW-2, ASMW-1 and ASMW-2, located at distances of 154, 100, 105 and 71 feet, respectively, from EW-2, were used to monitor drawdown of the water table during the test. Well locations are shown on Figure 1-1. Depth to groundwater was measured at each monitoring well using an electronic water level indicator at 30-minute intervals. Water level measurements and calculated drawdown values are summarized in Table 2.

A Grundfos Rediflo variable speed submersible pump (Model 25E3) was installed in each of the extraction wells, and tested under General Construction Contract No. D004264, was used for both pump tests. Groundwater extracted during the pump tests was processed through the groundwater treatment system before being discharged to the Nassau County sewer system with the approval of the Nassau County Department of Public Works.

Analysis of Pump Test Data

The data from the pump tests were analyzed using the *Aquifer Test for Windows* pump test and slug test analysis software package developed by Waterloo Hydrogeologic, Inc. This software contains routines for estimation of transmissivity, hydraulic conductivity and storativity for confined and unconfined aquifers. For these tests, the Cooper and Jacob distance-drawdown method was utilized. This method plots the distance from each observation well to the extraction well versus the drawdown at a specified time during the pump test. The slope of the best fit straight line through the plotted data points is used to calculate the aquifer's transmissivity. The hydraulic conductivity is then obtained by dividing the transmissivity by the aquifer's saturated thickness.

Extraction Well EW-1

The pump test at extraction well EW-1 was performed at a constant flow rate of 35 gallons per minute (gpm). Maximum drawdowns measured in PTMW-1, PTMW-2, ASMW-1 and ASMW-2 were 0.89, 1.95, 0.75 and 0.21 feet, respectively, after 120 minutes of pumping. Analysis of the maximum drawdown data for the four monitoring wells, using the Cooper and Jacob method, showed a hydraulic conductivity of 26 feet per day (ft/day). Graph 1 presents a graphical representation of the analysis. These results are similar to those obtained during the design study (11 to 27 ft/day) as described in the Groundwater Extraction and Treatment System Design Report, dated December 2000.

Extraction Well EW-2

The pump test at extraction well EW-2 was performed at a constant flow rate of 5 gpm, which was determined to be the maximum sustainable yield of the well. Maximum drawdowns measured in PTMW-1, PTMW-2, ASMW-1 and ASMW-2 were 0.05, 0.15, 0.10 and 0.07 feet, respectively, after 90 minutes of pumping. Analysis of the maximum drawdown data for the four monitoring wells, using the Cooper and Jacob method, showed a hydraulic conductivity of 17 ft/day. Graph 2 presents a graphical representation of the analysis. These results are similar to those obtained during part of the design study (11 to 27 ft/day) as described in the Groundwater Extraction and Treatment System Design Report, dated December 2000.

Capture Zone Modeling Procedures

Capture zone estimates were calculated using *Winflow*™, a 2-dimensional (2-D) steady-state groundwater flow model developed by Environmental Simulations, Inc. The 2-D model simulates groundwater flow in horizontal plane using analytical functions developed by Strack (1989).

The aquifer characteristics input into the model were the hydraulic conductivity information obtained from the pump test analyses, as well as aquifer characteristics determined during the remedial investigation (D&B, November 1998), the design study (D&B, December 2000), and construction of the groundwater extraction and treatment system, as summarized on the following table:

	EW-1	**EW-2**
Hydraulic conductivity (ft/day)	26	17
Storativity	0.2	0.2
Transmissivity (ft^2/day)	1872	1184
Horizontal Gradient (ft/ft)	0.00017	0.00017
Porosity	0.2	0.2
Saturated Aquifer Thickness (feet)	72	69

Results of Capture Zone Modeling

The objective of the groundwater extraction system is to capture the entire width of the plume, which is defined as the zone of tetrachloroethene exhibiting greater than 5 ug/l.

The results of the modeling, based on the sole operation of extraction well EW-1 at 20 gpm, 25 gpm, 30 gpm and 35 gpm yields capture zones of approximately 450, 640, 840 and 970 feet, respectively (see Figures 2-1, 2-2, 2-3 and 2-4). The results of the modeling, based upon the sole operation of extraction well EW-2 at 5 gpm yields a capture zone of approximately 250 feet (see Figure 3-1). As a result, it is concluded that the operation of the groundwater extraction system, as constructed, will sufficiently capture the plume defined in the December 2000 design study.

However, upon review of recent groundwater quality data, based upon groundwater samples collected on June 19 and 23, 2003 (see Figure 1-2), it appears that the plume location, as previously defined during the design study (D&B, December 2000), has migrated to the west. Migration further to the west may be caused by influences from surrounding area pumping wells.

While the operation of the extraction system provides the flexibility to increase the capture zone greater than the width of the plume defined in the design study, it is uncertain if the extraction system is capturing the current plume due to the lack of groundwater quality data west of the area (ASMW-1), which exhibited the highest concentration of tetrachloroethane during the June 2003 groundwater sampling event. Consideration should be given to delineate the western edge of the plume to evaluate the influence of the groundwater extraction system.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

Frank DeVita
Project Manager

FD(t)/ld,ajm
Attachments
cc: J. Yavonditte, NYSDEC
T. Maher, D&B
♦1851\FD03(B)LTR-44.DOC(R03)

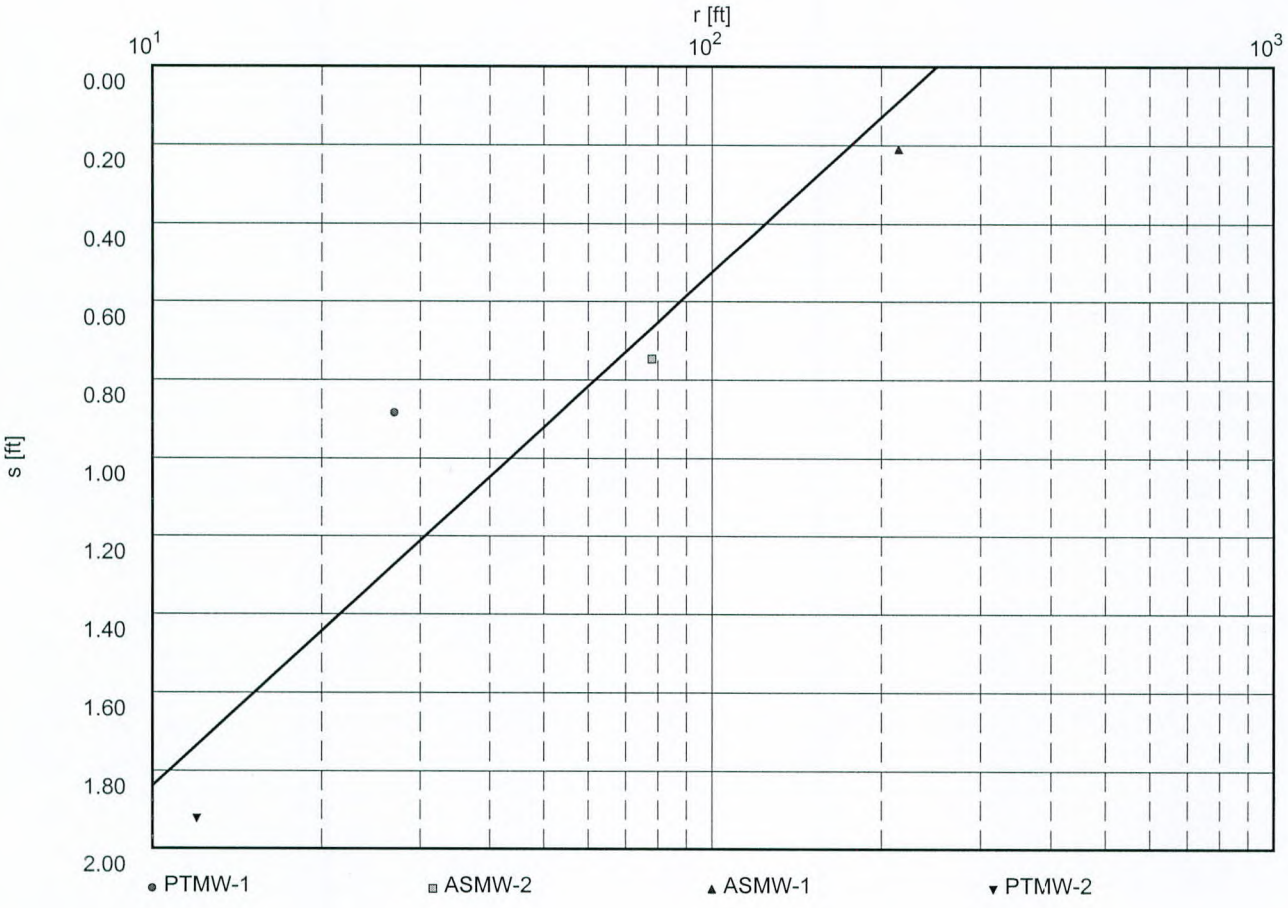
TABLE 1
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
DEPTH TO WATER MEASUREMENTS PUMP TEST EW-1

DATE	09/08/2003							
TIME	1:10 PM		1:40 PM		2:10 PM		2:40 PM	
DATA POINT	T = 0 min.		T = 30 min.		T = 60 min.		T = 90 min.	
	Depth to Water*	Drawdown	Depth to Water	Drawdown	Depth to Water	Drawdown	Depth to Water	Drawdown
UNITS	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
Well								
ASMW-1	21.61	-	21.71	0.10	21.80	0.19	21.82	0.21
ASMW-2	20.08	-	20.76	0.68	20.83	0.75	20.83	0.75
ASMW-3	20.59	-	20.80	0.21	20.82	0.23	20.82	0.23
PTMW-1	18.42	-	19.31	0.89	19.31	0.89	19.31	0.89
PTMW-2	18.07	-	20.00	1.93	20.02	1.95	20.02	1.95

NOTES:
1) Pump Test was initiated on 09/08/03 at approximately 1:10 pm at a constant flow rate of 35 gpm.
2) Depth to water measurements taken from top of casing.
*: Measurements taken prior to startup.

Dvirka and Bartilucci 330 Crossways Parkdrive Woodbury, NY 11797 ph.(516) 364 9890	Pumping test analysis Distance-Drawdown-method after COOPER & JACOB Unconfined aquifer	Date: 16.09.2003	Graph 1
		Project: Franklin Cleaners Site	
		Evaluated by: F. DeVita/R. Heling	

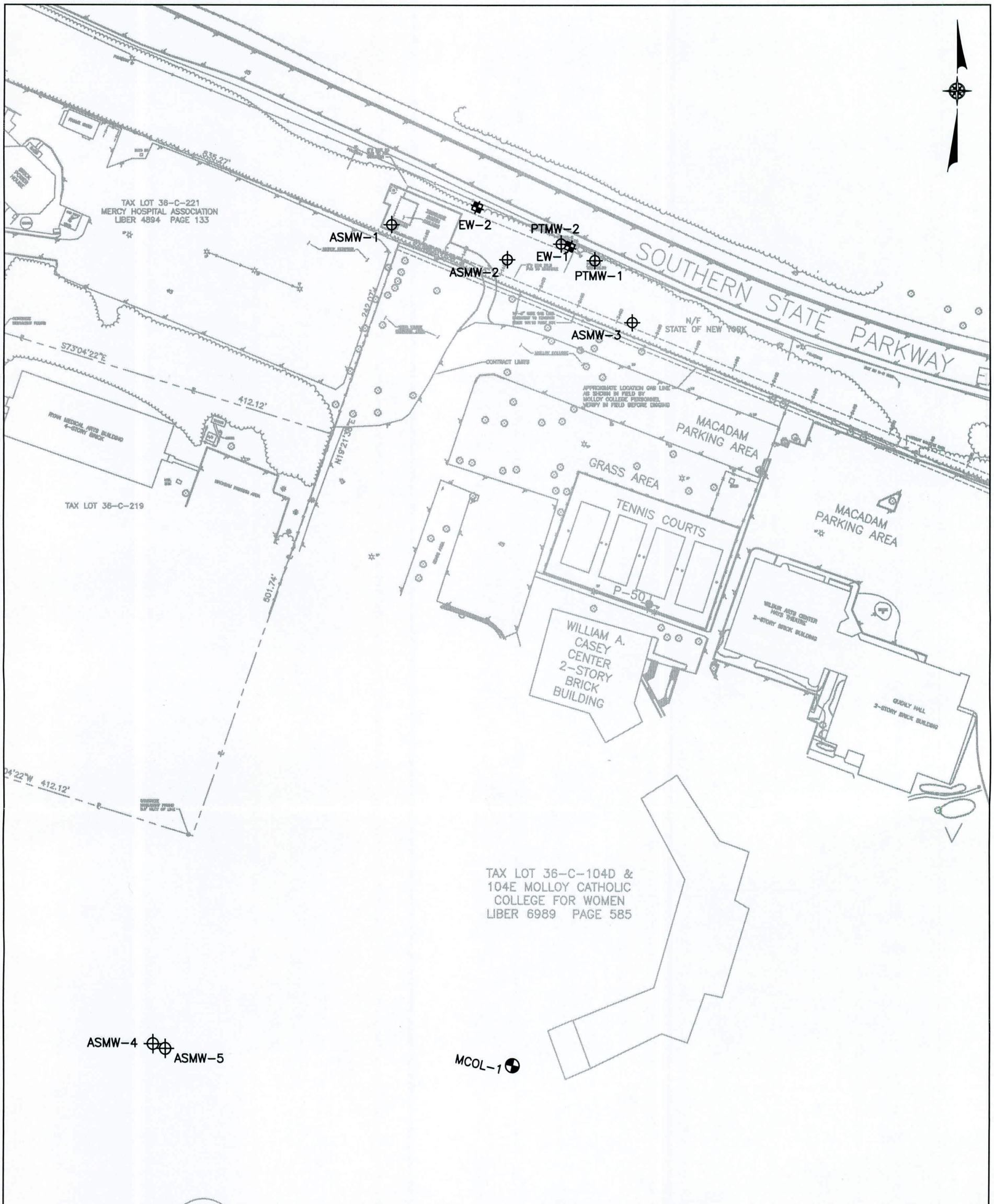
Extraction Well EW-1 Pump Test	Test conducted on: 09/08/2003
All Observation Wells	
Discharge 35.00 U.S.gal/min	Analysis at time (t) 90.00 min



Transmissivity [ft²/min]: 1.30×10^{0}

Hydraulic conductivity [ft/min]: 1.81×10^{-2}

Aquifer thickness [ft]: 72.00



LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- SUPPLY WELL
- FORMER GROUNDWATER PROBE

GROUNDWATER MONITORING WELLS				
WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH	GROUND SURFACE ELEVATION (msl)	TOP OF CASING ELEVATION (msl)
ASMW-1	90'-0"	10'-0"	----	----
ASMW-2	90'-0"	10'-0"	----	----
ASMW-3	90'-0"	10'-0"	----	----
ASMW-4	110'-0"	10'-0"	----	----
ASMW-5	133'-0"	10'-0"	----	----

0 120 240

SCALE IN FEET

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

PUMPT TEST OBSERVATION WELL LOCATION MAP

FIGURE 1-1

F:\11851\capture zones\Figure 1 - observation wells.dwg, 10/03/03 06:51:46 PM, FDeVita

ASMW-1	
Date sampled: 06/23/03	
Constituent	Results (ug/l)
Tetrachloroethene	510 D
1,1,1,-trichloroethane	<50
Methyl tert-butyl ether	<50
Chloroform	<50
m/p xylene	<100

ASMW-2	
Date sampled: 06/19/03	
Constituent	Results (ug/l)
Tetrachloroethene	87
1,1,1,-trichloroethane	<10
Methyl tert-butyl ether	<10
Chloroform	<10
m/p xylene	<20

ASMW-3	
Date sampled: 06/23/03	
Constituent	Results (ug/l)
Tetrachloroethene	23
1,1,1,-trichloroethane	<10
Methyl tert-butyl ether	1.6J
Chloroform	<10
m/p xylene	<20

ASMW-4	
Date sampled: 06/23/03	
Constituent	Results (ug/l)
Tetrachloroethene	<10
1,1,1,-trichloroethane	<10
Methyl tert-butyl ether	<10
Chloroform	4.4J
m/p xylene	<20

ASMW-5	
Date sampled: 06/23/03	
Constituent	Results (ug/l)
Tetrachloroethene	<10
1,1,1,-trichloroethane	<10
Methyl tert-butyl ether	<10
Chloroform	<10
m/p xylene	<20

ASMW-1
ASMW-2
ASMW-3
ASMW-4
ASMW-5
EW-1
EW-2
MCOL-1
P-50
P-51
N-72
N-3745
N-8218

SOUTHERN STATE PARKWAY E

TAX LOT 36-C-221
MERCY HOSPITAL ASSOCIATION
LIBER 4894 PAGE 133

TAX LOT 36-C-219

TAX LOT 36-C-104D & 104E MOLLOY CATHOLIC COLLEGE FOR WOMEN
LIBER 6989 PAGE 585

N/F STATE OF NEW YORK

835.27'
242.07'
S73°04'22"E 412.12'
N19°21'38"E
501.74'
04'22"W 412.12'

CONTRACT LIMITS

APPROXIMATE LOCATION GAS LINE AS SHOWN IN FIELD BY MOLLOY COLLEGE PERSONNEL VERIFY IN FIELD BEFORE DIGGING

MACADAM PARKING AREA
GRASS AREA
TENNIS COURTS
MACADAM PARKING AREA

WILLIAM A. CASEY CENTER 2-STORY BRICK BUILDING

WILBUR ARTS CENTER HAYS THEATRE 2-STORY BRICK BUILDING

QUEALY HALL 2-STORY BRICK BUILDING

RYAN MEDICAL ARTS BUILDING 4-STORY BRICK

FRAME SHED

BRICK POWER HOUSE

MERCY HOSPITAL

YARD WASTE DISPOSAL AREA

MOLLOY COLLEGE

MACADAM PARKING AREA

0 120 240
SCALE IN FEET

LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- SUPPLY WELL
- FORMER GROUNDWATER PROBE

GROUNDWATER MONITORING WELLS		
WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH
ASMW-1	90'-0"	10'-0"
ASMW-2	90'-0"	10'-0"
ASMW-3	90'-0"	10'-0"
ASMW-4	110'-0"	10'-0"
ASMW-5	133'-0"	10'-0"

NOTES:

1. GROUNDWATER SAMPLES COLLECTED BY URS CORPORATION ON 6/19/03 AND 6/23/03.
2. GROUNDWATER SAMPLES ANALYZED UNDER USEPA METHOD OLM 04.2.
3. GROUNDWATER SAMPLE RESULTS ARE PRELIMINARY.
4. ONLY HITS ARE REPORTED. ALL OTHERS ARE NOT DETECTED ABOVE THE MDL.
5. "J" DENOTES AN ESTIMATED RESULT.
6. "D" DENOTES A DILLUTED SAMPLE.

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FRANKLIN CLEANERS SITE
HEMPSTEAD, NEW YORK

JUNE 2003 GROUNDWATER MONITORING RESULTS

FIGURE 1-2

F:\1851\Baseline GW Sampling Results\1851-groundwater monitoring results.dwg, 10/03/03 06:52:41 PM, FDeVita

TABLE 2
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
DEPTH TO WATER MEASUREMENTS PUMP TEST EW-2

DATE	09/09/2003							
TIME	9:00 AM		9:40 PM		10:10 PM		10:40 PM	
DATA POINT	T = 0 min.		T = 30 min.		T = 60 min.		T = 90 min.	
	Depth to Water*	Drawdown	Depth to Water	Drawdown	Depth to Water	Drawdown	Depth to Water	Drawdown
UNITS	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)	(Feet)
Well								
ASMW-1	21.71	-	21.81	0.10	21.81	0.10	21.81	0.10
ASMW-2	20.13	-	20.28	0.15	20.29	0.16	20.28	0.15
ASMW-3	20.64	-	26.67	6.03	20.66	0.02	20.66	0.02
PTMW-1	18.48	-	18.53	0.05	18.53	0.05	18.53	0.05
PTMW-2	18.14	-	18.22	0.08	18.21	0.07	18.21	0.07

DATE	09/09/2003	
TIME	11:10 AM	
DATA POINT	T = 120 min.	
	Depth to Water	Drawdown
UNITS	(Feet)	(Feet)
Well		
ASMW-1	21.81	0.20
ASMW-2	20.28	0.20
ASMW-3	20.66	0.07
PTMW-1	18.53	0.11
PTMW-2	18.22	0.15

NOTES:
1) Pump Test was initiated on 09/09/03 at approximately 9:00 pm at a constant flow rate of 5 gpm.
2) Depth to water measurements taken from top of casing.
*: Measurements taken prior to startup.

Dvirka and Bartilucci
330 Crossways Parkdrive
Woodbury, NY 11797
ph.(516) 364 9890

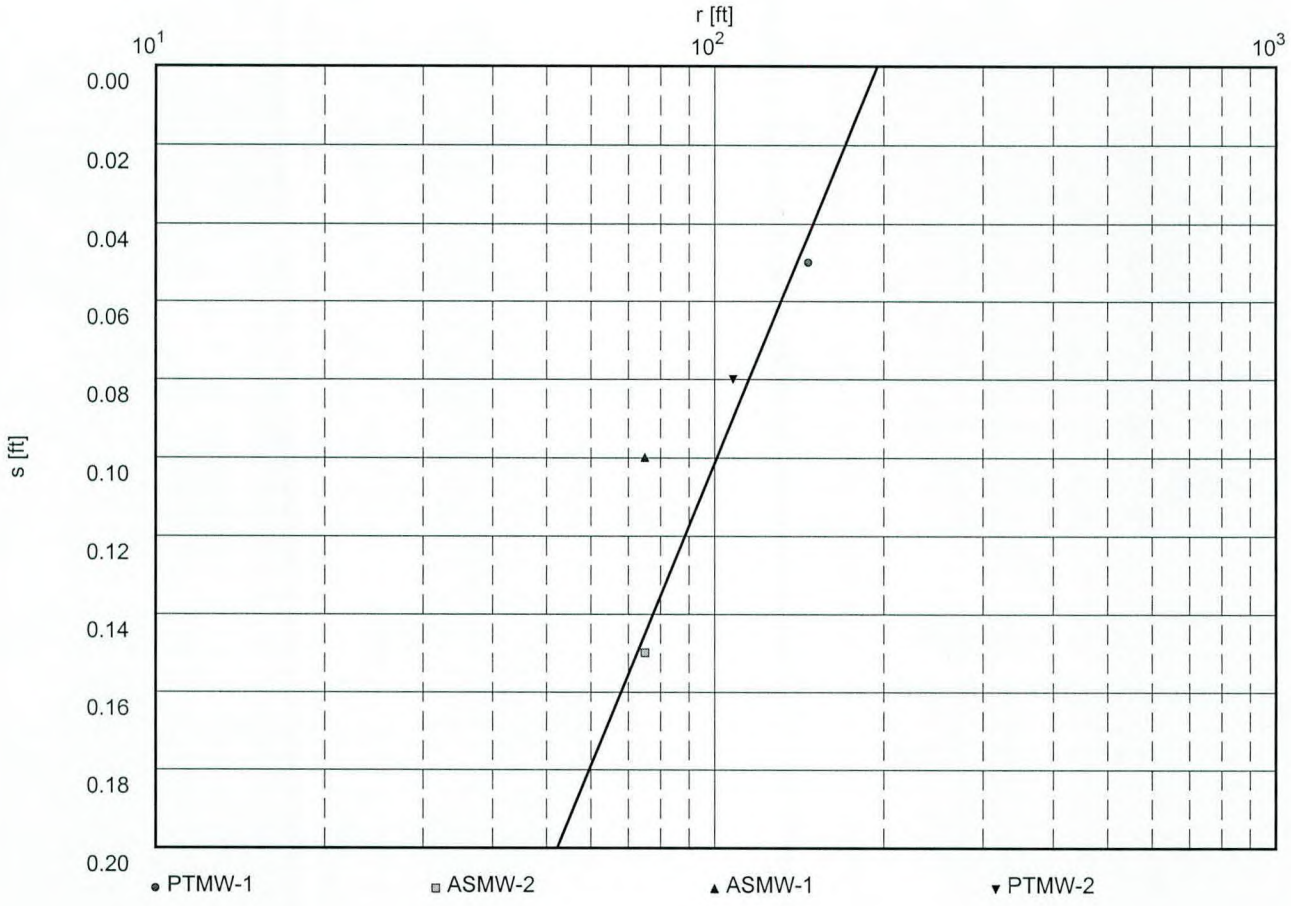
Pumping test analysis
Distance-Drawdown-method after
COOPER & JACOB
Unconfined aquifer

Date: 16.09.2003 | Graph 2

Project: Franklin Cleaners Site

Evaluated by: F. DeVita/R. Heling

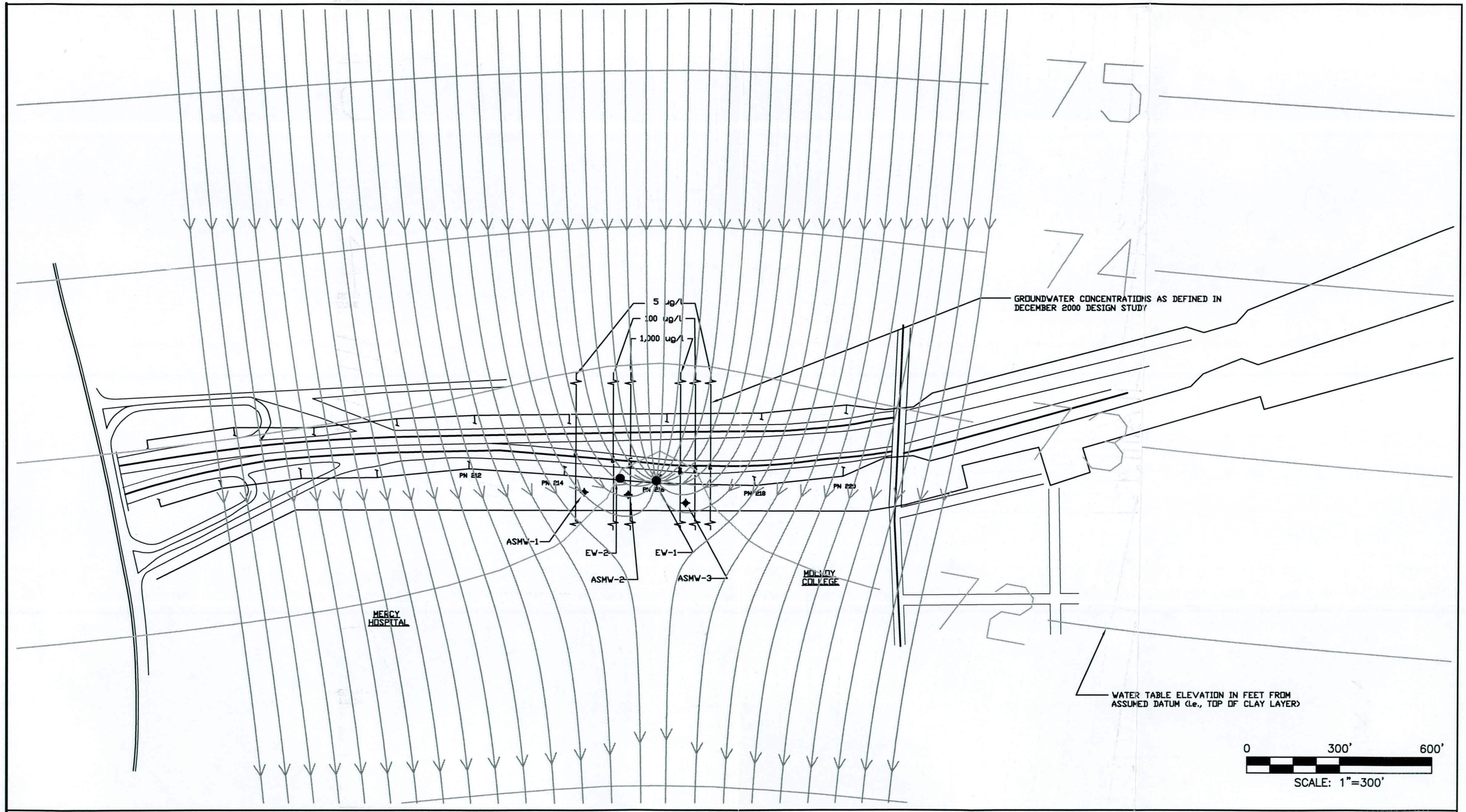
Extraction Well EW-2 Pump Test	Test conducted on: 09/08/2003
All observation wells	
Discharge 5.00 U.S.gal/min	Analysis at time (t) 120.00 min



Transmissivity [ft²/min]: 7.00×10^{-1}

Hydraulic conductivity [ft/min]: 1.01×10^{-2}

Aquifer thickness [ft]: 69.00



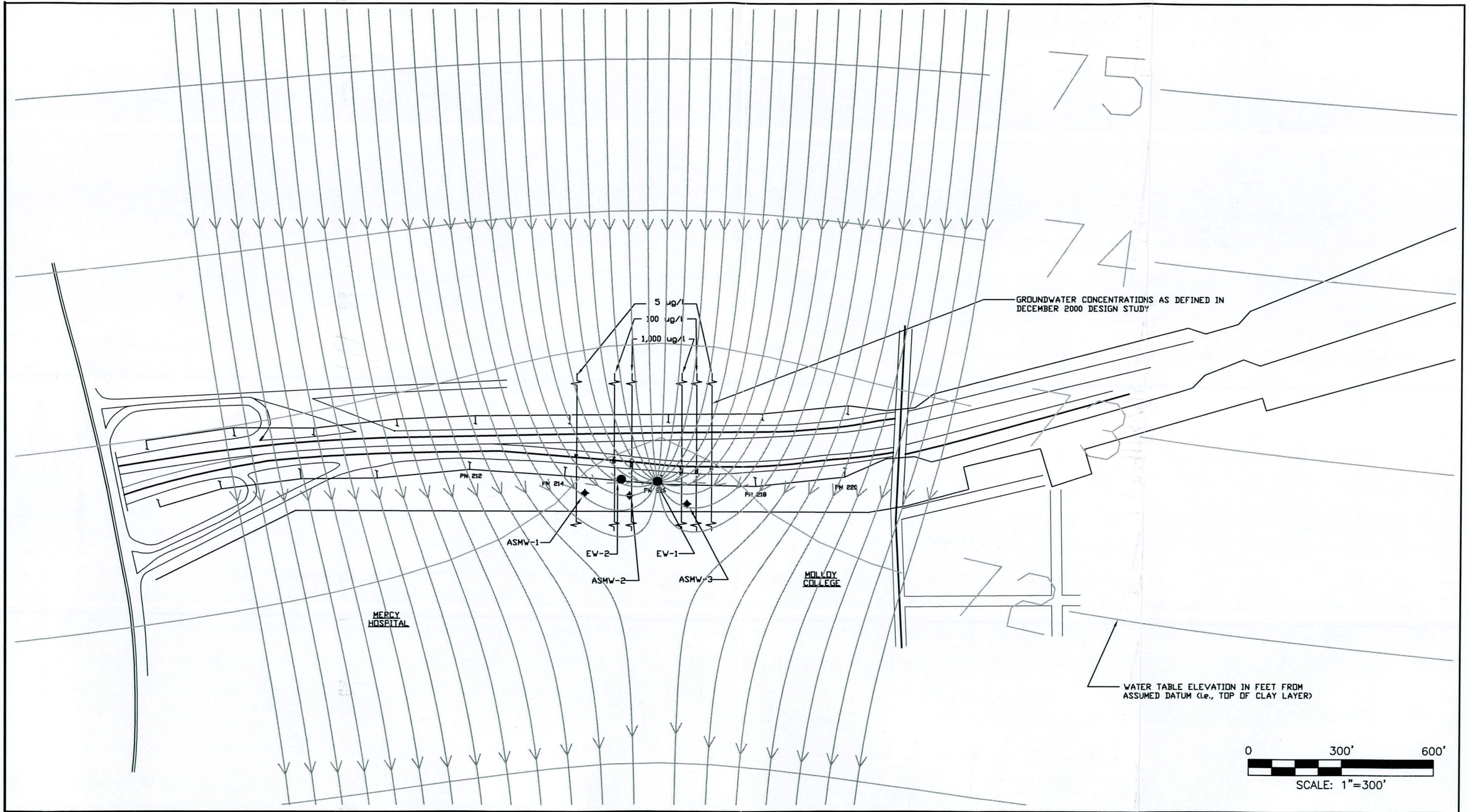
FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

CAPTURE ZONE MODEL
K=26 FT/DAY I=0.00167 B=72 FT
EW-1: 20 GPM EW-2: 0 GPM

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE 2-1

F:\16511capture zones\CAPTURE_ZONE_EW-1-20.dwg, 10/01/03 11:15:54 AM, DCortes



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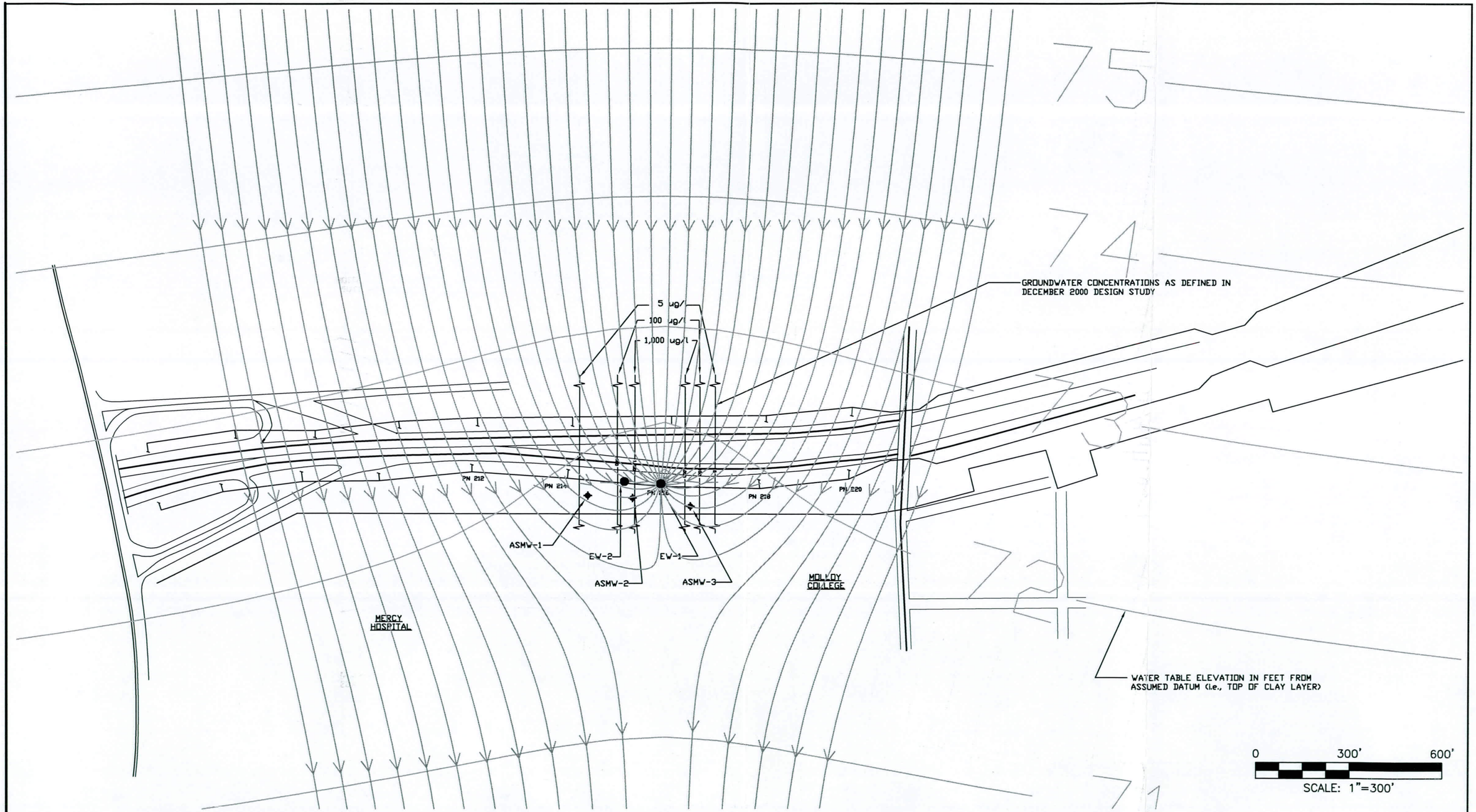
FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

CAPTURE ZONE MODEL
K=26 FT/DAY I=0.00167 B=72 FT
EW-1: 25 GPM EW-2: 0 GPM

FIGURE 2-2

F:\11851\capture zones\CAPTURE_ZONE_EW-1-25.dwg, 10/01/03 11:17:52 AM, DCortes



FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

CAPTURE ZONE MODEL
K=26 FT/DAY I=0.00167 B=72 FT
EW-1: 30 GPM EW-2: 0 GPM

Dvirka and Bartilucci CONSULTING ENGINEERS
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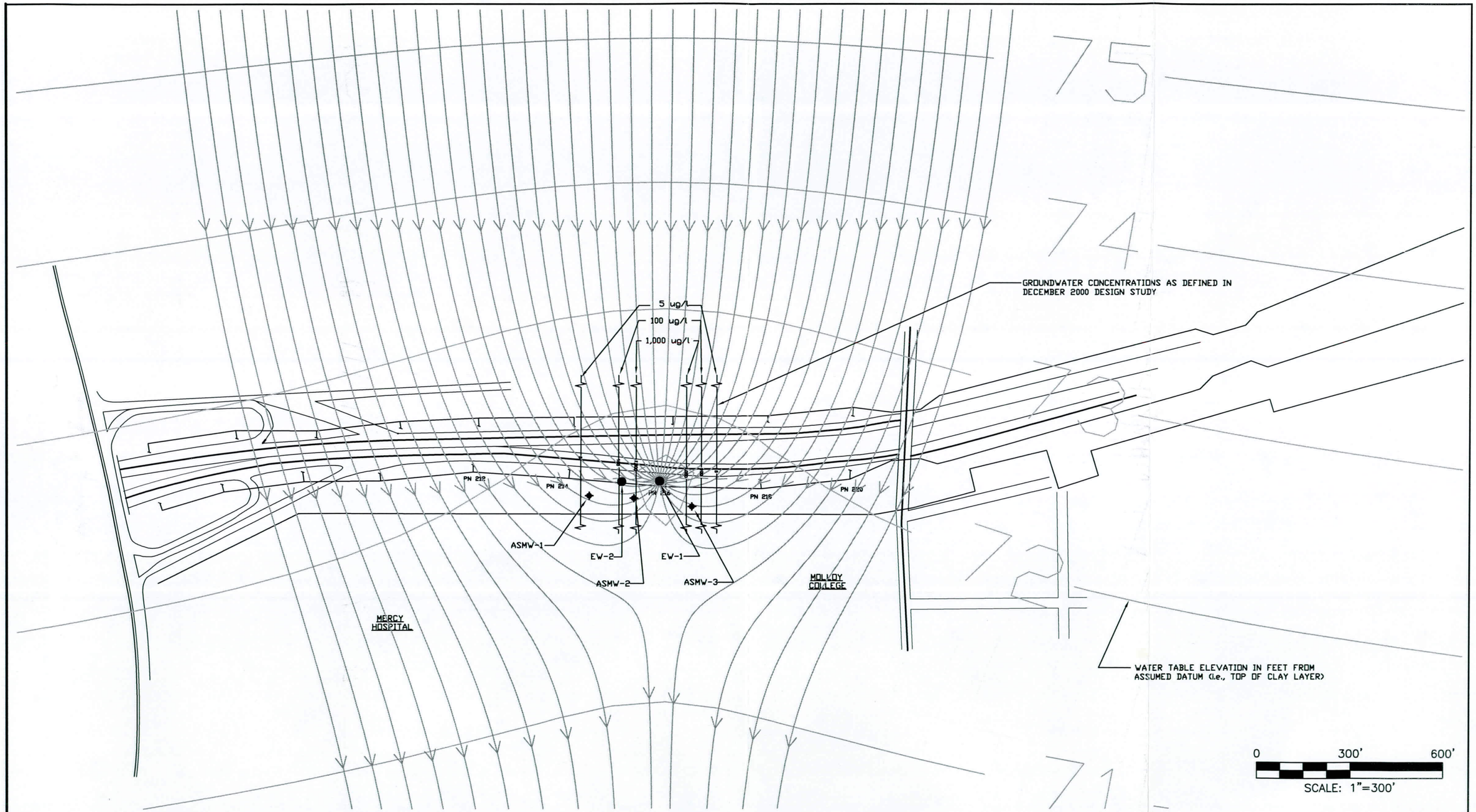
FIGURE 2-3

F:\18511capture zones\CAPTURE_ZONE_EW-1-30.dwg, 10/01/03 11:18:38 AM, DCortes



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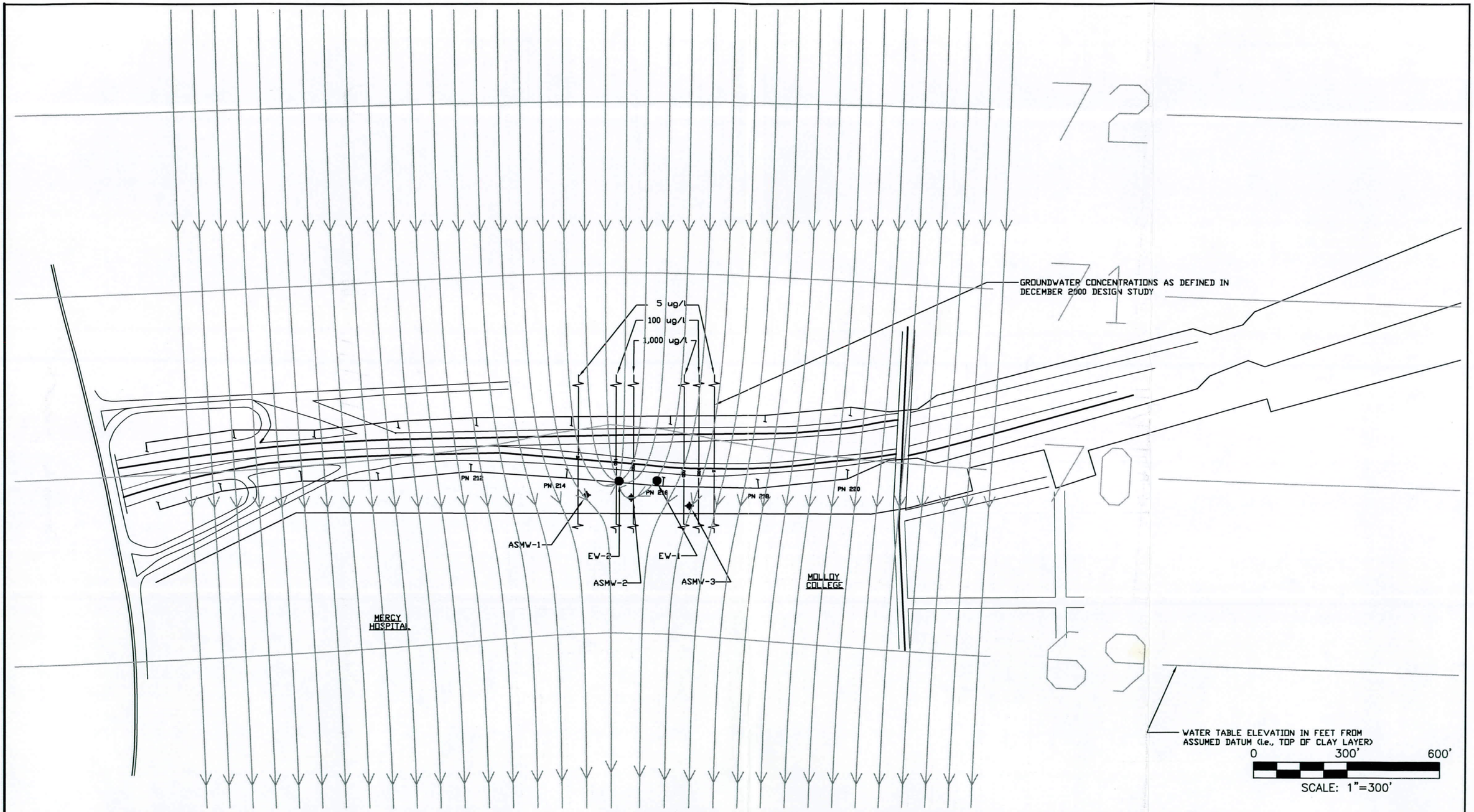
FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

CAPTURE ZONE MODEL
K=26 FT/DAY I=0.00167 B=72 FT
EW-1: 35 GPM EW-2: 0 GPM

FIGURE 2-4

F:\18851\capture zones\CAPTURE_ZONE_EW-1-35.dwg, 10/01/03 10:45:49 AM, DCortes



Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FRANKLIN CLEANERS SITE
VILLAGE OF HEMPSTEAD, NEW YORK

CAPTURE ZONE MODEL
K=17 FT/DAY I=0.00167 B=69 FT
EW-1: 0 GPM EW-2: 5 GPM

FIGURE 3-1

F:\18851capture zones\CAPTURE_ZONE_EW-2-5.dwg, 10/01/03 11:13:25 AM, DCortes

Dvirka and Bartilucci
CONSULTING ENGINEERS
330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 Fax: 516-364-9045

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D&B FAX NO: (516) 364-9045 Date: November 22, 2004

COMPANY NAME: NYSDEC

ATTENTION: Mr. Jeffrey E. Trad

FAX NO: (518) 402-9819

FROM: Frank DeVita

SUBJECT: Franklin Cleaners Site JOB#: 2307

NO. OF PAGES 3
(including cover sheet)

RECEIVED
NOV 22 2004
BUREAU OF

MESSAGE: As requested, attached please find the most current insurance certificates for Unitech Drilling Company Inc. Should you have any questions please do not hesitate to contact me at (516) 364-9890.

THANK YOU: Frank DeVita
Frank DeVita

A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

ACORD CERTIFICATE OF LIABILITY INSURANCE

OP ID JB UNITE-1 | DATE (MM/DD/YYYY) 11/15/04

PRODUCER
Fairways Insurance Services
Monroe Building, Suite #210
101 Route 130 South
Cinnaminson NJ 08077-2848
Phone: 856-786-9100 Fax: 856-786-7899

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

INSURED
Uni-Tech Drilling Company Inc.
61 Greys Ferry Road
P.O. Box 407
Franklinville NJ 08322

INSURERS AFFORDING COVERAGE		NAIC #
INSURER A:	CNA Commercial Insurance	
INSURER B:	Ohio Casualty Group	
INSURER C:	Gulf Underwriters Insurance	Co
INSURER D:		
INSURER E:		

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	ADD'L INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	X	GENERAL LIABILITY X COMMERCIAL GENERAL LIABILITY CLAIMS MADE [X] OCCUR X XCU Included X Pollution GEN'L AGGREGATE LIMIT APPLIES PER: X POLICY PRO-JECT LOC	C131505882 C131505882	03/20/04 03/20/04	03/20/05 03/20/05	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG Pollution	$ 1,000,000. $ 300,000 $ 10,000 $ 1,000,000 $ 2,000,000 $ 2,000,000 1,000,000.
A		AUTOMOBILE LIABILITY X ANY AUTO ALL OWNED AUTOS SCHEDULED AUTOS X HIRED AUTOS X NON-OWNED AUTOS	C2025750256	03/20/04	03/20/05	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	$ 1,000,000. $ $ $
		GARAGE LIABILITY ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	$ $ $
B		EXCESS/UMBRELLA LIABILITY X OCCUR CLAIMS MADE DEDUCTIBLE X RETENTION $10,000	BI300240PFD	03/20/04	03/20/05	EACH OCCURRENCE AGGREGATE	$ 5,000,000 $ 5,000,000. $ $ $
A		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below	WC103150901	03/20/04	03/20/05	X WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	$ 1,000,000. $ 1,000,000. $ 1,000,000.
		OTHER					
A		Inland Marine	C1031505882	03/20/04	03/20/05	Equip.	2,100,000.
C		Pollution Liabilit	CPL5437369	09/12/04	09/12/05	Pol Liab	1,000,000.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

" All States" endorsement is included on the Workers Compensation Coverage. Such insurance shall be primary with respect to any similar insurance purchased or maintained by an additional insured notwithstanding the provisions of such insurance. Any other insurance maintained by an additional insured for injury or damage that is covered by the insurance

CERTIFICATE HOLDER

DVIRKA&

Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury NY 11797-2015

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
John M. Hanuscin

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NOTEPAD

required under this agreement shall be excess and non-contributing with insurance maintained by Unitech Drilling Company, Inc. Interest of additional insured is hereby noted for New York State Department of Environamental Conservation and Dvirka And Bartilucci consultinging Engineers (A Division of William F. Consultech Associates, P.C.)

FAX TRANSMISSION

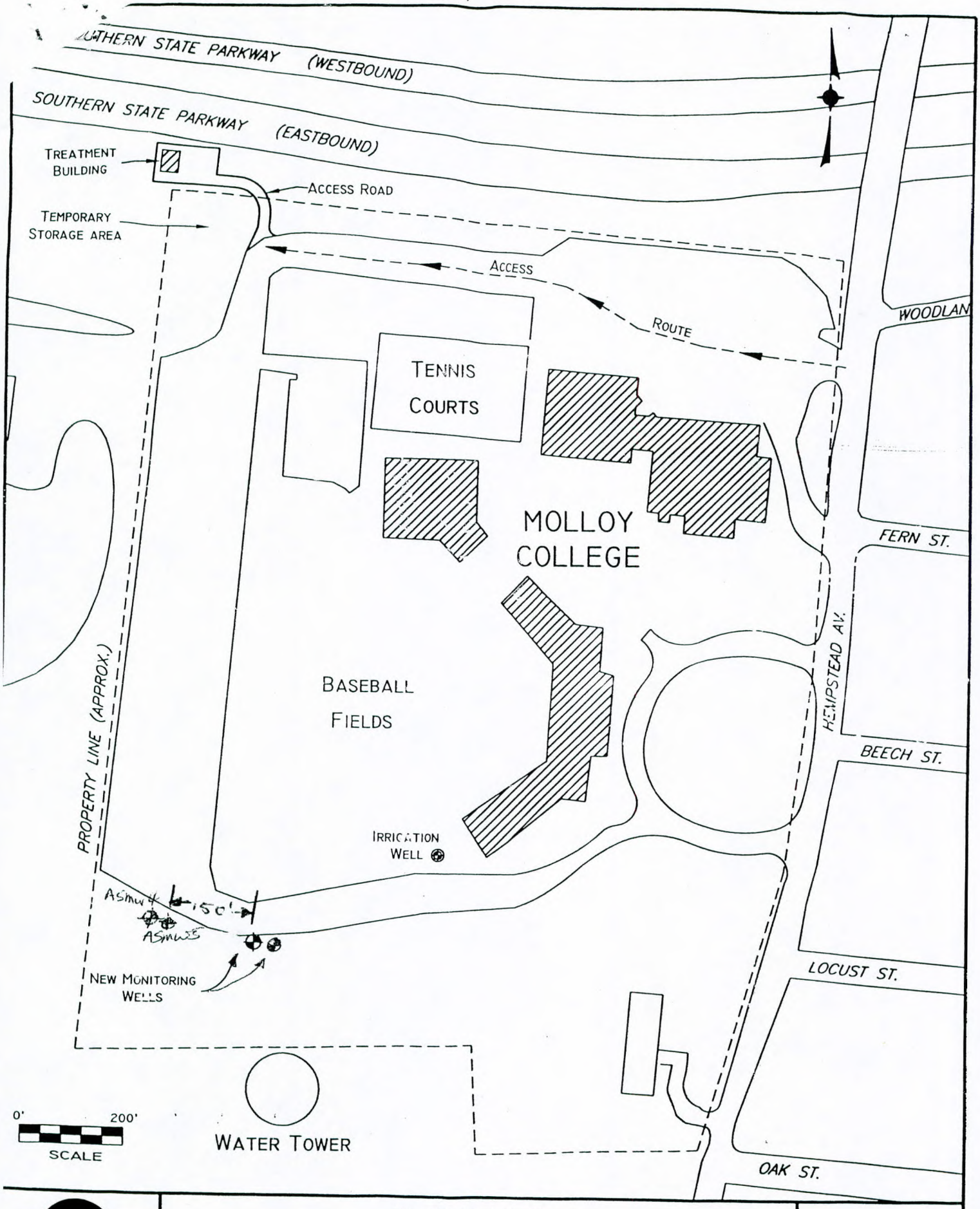
NYSDEC
625 Broadway
Albany, NY 12233
518-402-9814
Fax: 518-402-9819

Erin M. Crotty
Commissioner

To:	Michael Tone	**Date:**	September 8, 2003
Fax #:	516-832-7555	**Pages:**	2, including this cover sheet.
From:	Jeff Trad		
Subject:	Molloy College Monitoring Wells		

COMMENTS:

Attached is a map indicting the agreed locations of the two proposed monitoring wells. The deeper well will be located approximately 150 feet east of the exiting shallow/deep well pair of ASMW-4 and ASMW-5. In addition to being a deep aquifer monitoring well (below the 120 foot below ground surface aquiclude), it will also be used as an irrigation well by Molloy College. It will have a capacity of 45-50 gpm. The proposed shallow well will be within 10 feet further east and will only be used as a monitoring well by the DEC but is not needed by the college.



FRANKLIN CLEANERS SITE
HEMPSTEAD, NASSAU COUNTY, NEW YORK

WORK AREAS AND ACCESS ROUTE

FIGURE 1

00-17-1 (5/76)
Formerly GA-4

Elaine

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

TRANSMITTAL SLIP

TO: Jim Mutteri — Fax # 516-766-8776

FROM: Jeff Trad — 518-402-9814

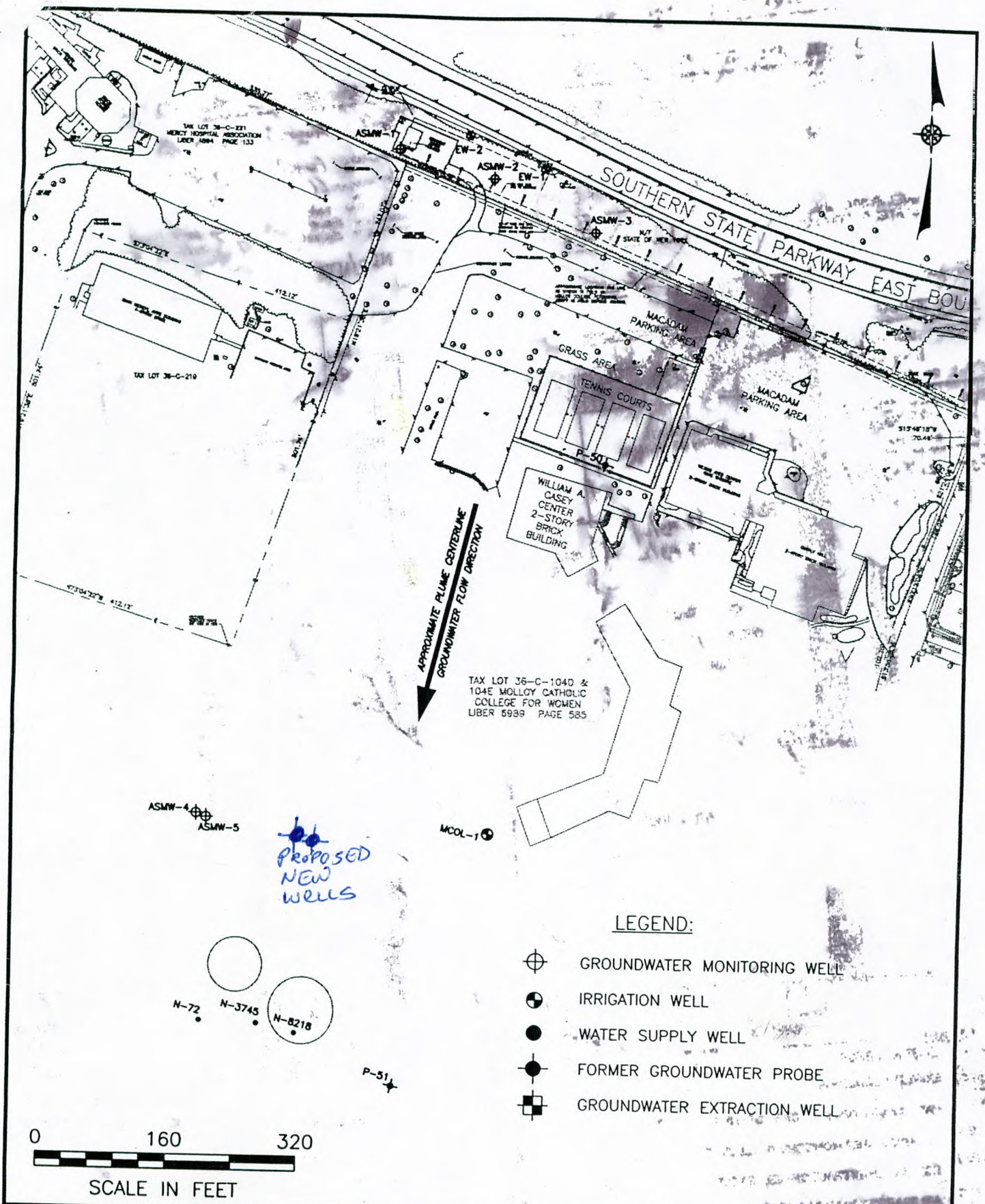
DATE: 7/16/03

RE:

Here's 2 different maps with the locations as close as I could get by eye. Call me Thursday on how feasible this is.

FOR ACTION AS INDICATED:

- ☐ Please Handle
- ☐ Prepare Reply
- ☐ Prepare Reply for Signature _____
- ☐ Information
- ☐ Approval
- ☐ Prepare final/draft in _____ Copies
- ☐ Comments
- ☐ Signature
- ☐ File
- ☐ Return to me
- ☐ _____
- ☐ _____



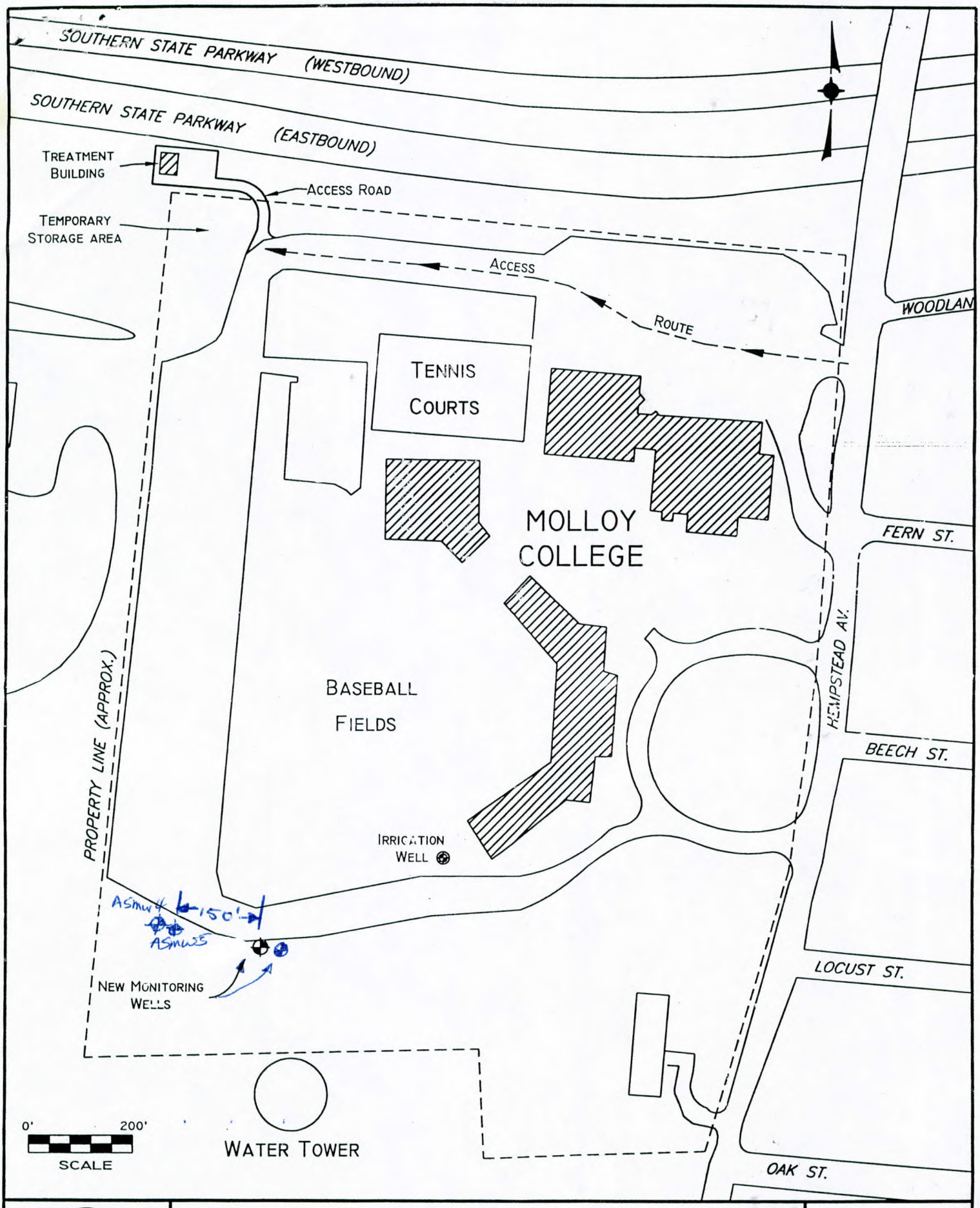
FRANKLIN CLEANERS SITE
HEMPSTEAD, NEW YORK

APPROXIMATE WELL LOCATION MAP

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE No. 1

F:\1640\GW_DESIGN\Contract Drawings\1640-WELL_LOCATION.dwg, 05/02/03 05:10:28 PM, FDeVita



FRANKLIN CLEANERS SITE
HEMPSTEAD, NASSAU COUNTY, NEW YORK

WORK AREAS AND ACCESS ROUTE

FIGURE 1

edor

05/19/2004 09:36 FAX 6316944122 H2M GROUP ☑001/002

H2M GROUP

Holzmacher, McLendon & Murrell, P.C. • H2M Labs, Inc.
H2M Associates, Inc. • H2M Architects & Engineers, Inc.
H2M Construction Management, Inc.

575 Broad Hollow Road, Melville, New York 11747
Ph: (631) 756-8000 • Fax: (631) 694-4122 • www.h2m.com

fax

TO: Jeff Trad FROM: James Neri

COMPANY: NYSDEC RE:

DATE: 5-19-04 TIME: 8:47

FAX: (518) 402-9019 NO. PAGES (including cover sheet): 2

Call us immediately if you do not receive all pages

☐ Urgent ☐ Review ☐ As Requested ☐ Reply ☐ Keep or Discard

COMMENTS:

→I spoke to Anthony I. at Rockville Center Water. Here is the information he has on the wells.

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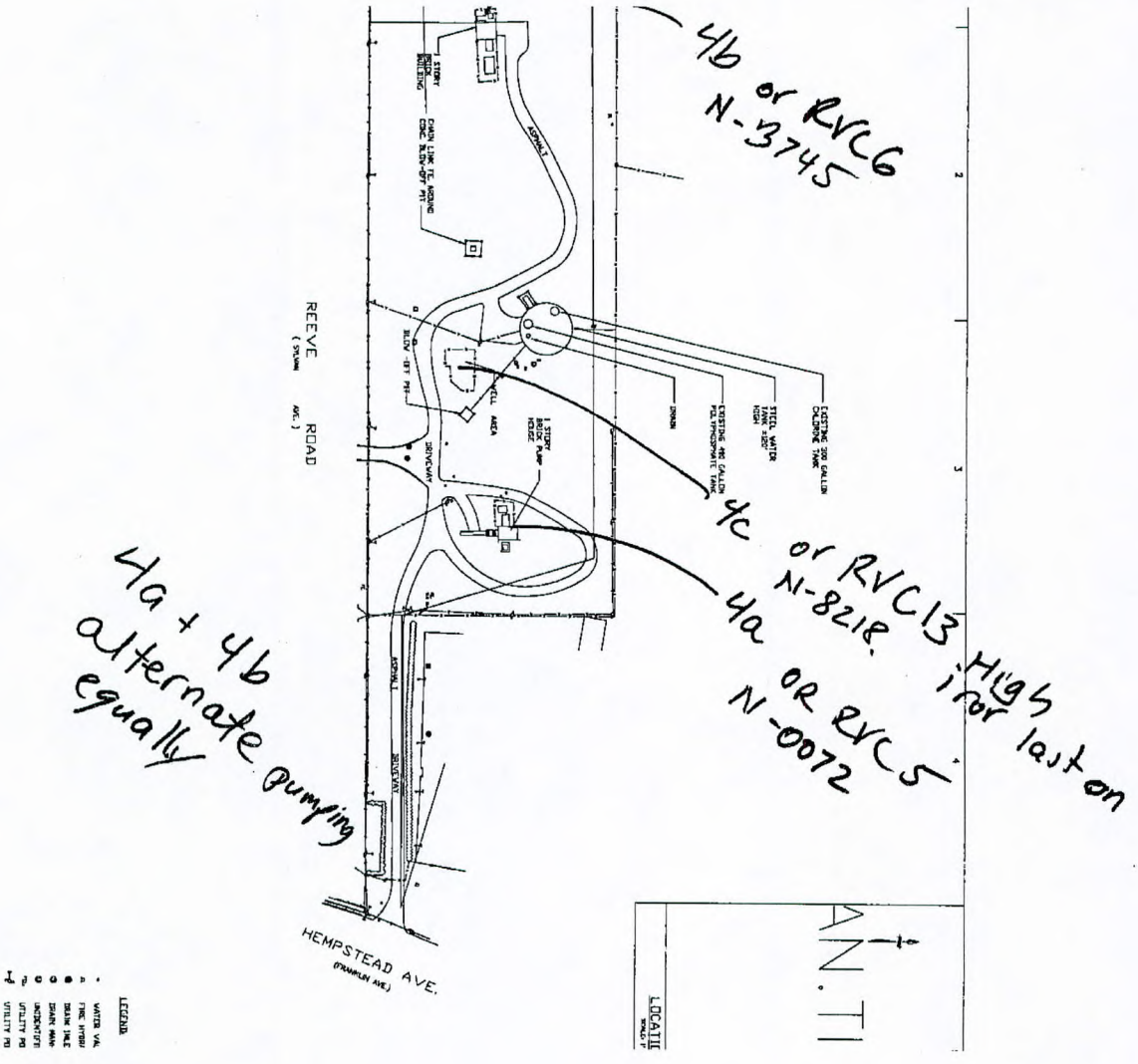
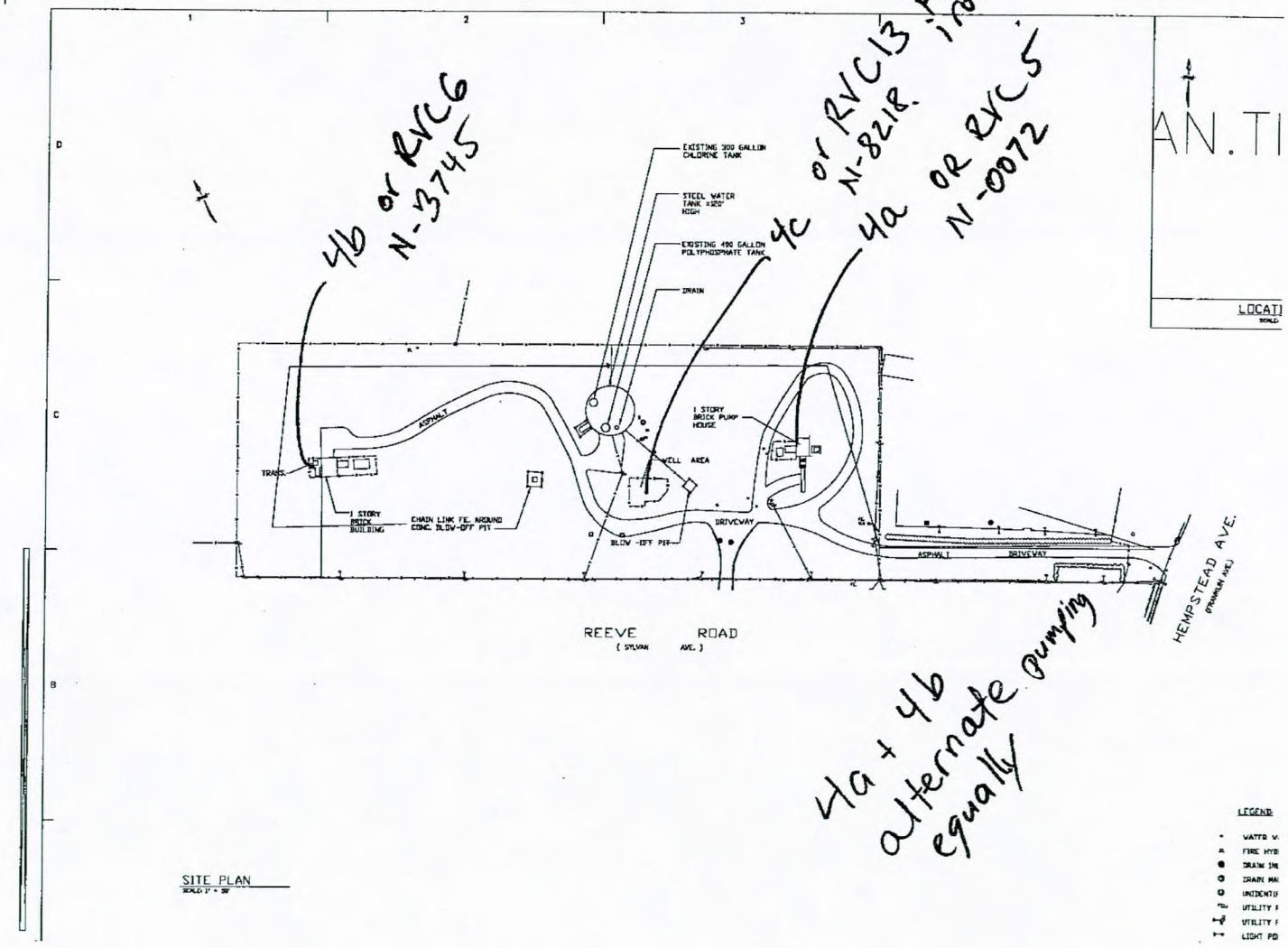
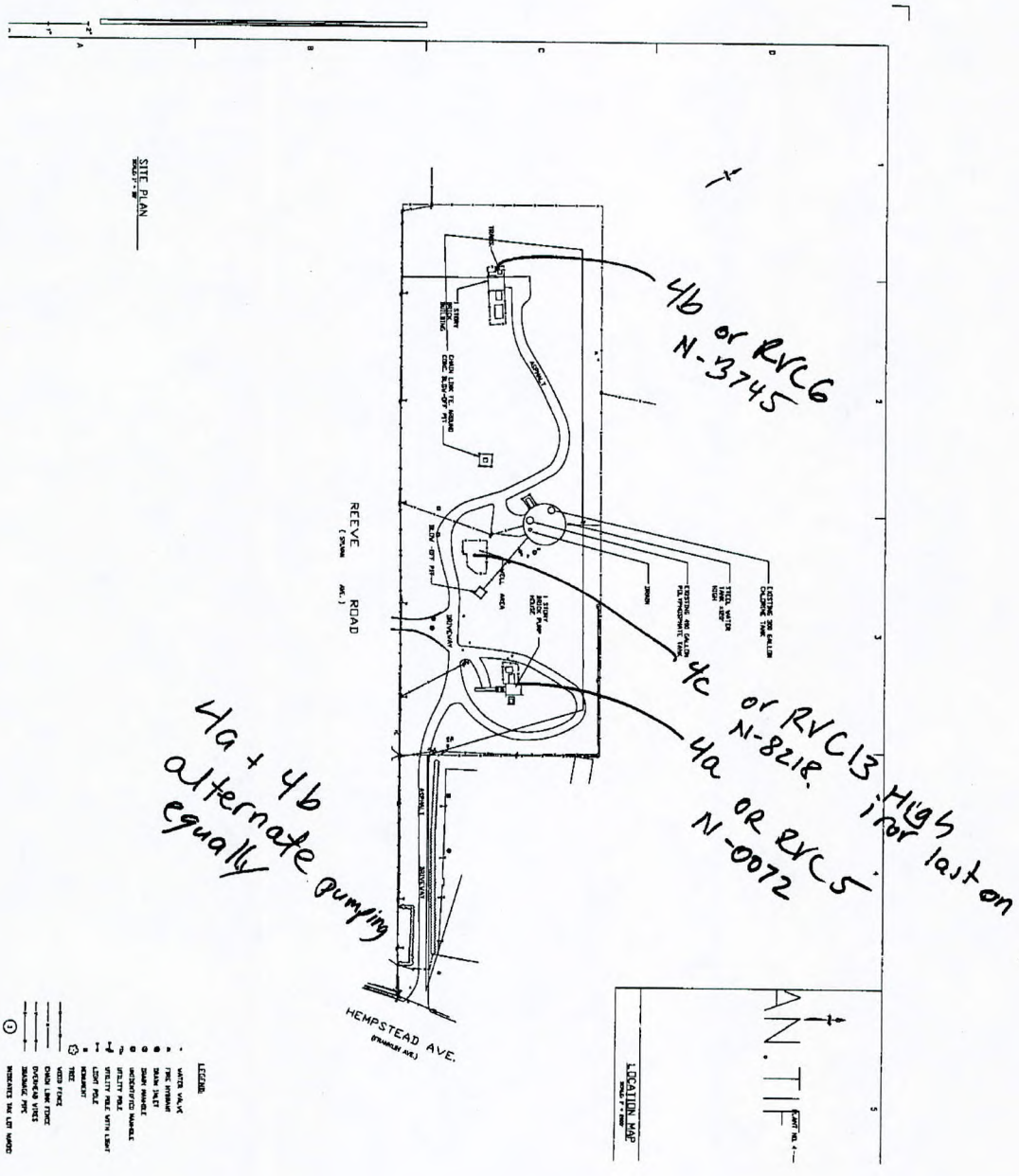

4b or RVC6
N-3745
4c or RVC13
N-8218
High
for last on
4a OR RVC5
N-0072
4a + 4b
alternate pumping
equally
REEVE ROAD
(SYLVAN AVE.)
HEMPSTEAD AVE.
(FRANKLIN AVE.)
1 STORY BLOCK PUMP HOUSE
BLOW-OFF PIT
SERVICEWAY
ASPHALT
CHAIN LINK FE. ASPHALT
CONC. BLOW-OFF PIT
DRIVEWAY
DRAIN
STEEL WATER TANK
EXISTING 300 GALLON CHLORINE TANK
EXISTING 400 GALLON POLYPHOSPHATE TANK
LOCATION
SCALE
N.T.S.
LEGEND
WATER VAL
FIRE HYDRA
DRAIN INLE
DRAIN MAN
UNDERGROU
UTILITY PO
UTILITY PO

Fax78.TIF (1728x2134x2 tiff) [2]




SITE PLAN
REEVE ROAD
HEMPSTEAD AVE.
LOCATION MAP
4b or RVC6 N-3745
4c or RVC13 N-8218
4a OR RVC5 N-0072
4a + 4b alternate pumping equally
High if not on
LEGEND

ASMW-1				
DATE SAMPLED	09/25/03	10/21/03	11/25/03	
GROUNDWATER ELEVATION (4)	24.79	24.59	24.59	
COLLECTED BY	URS	URS	URS	D&B
Constituent				
1,1-Dichloroethene	2.5J	ND	1.3J	ND
Acetone	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND
Chloroform	1.3J	1.3J	1.2J	1.0J
1,1,1-Trichloroethane	ND	2.9J	1.7J	2.0J
Bromodichloromethane	ND	ND	ND	ND
1,1,2-Trichloroethene	ND	11.0J	ND	ND
Tetrachloroethene	380D	340D	120	170
Xylene (total)	ND	ND	ND	ND

ASMW-2			
DATE SAMPLED	09/25/03	10/21/03	11/25/03
GROUNDWATER ELEVATION (4)	24.66	24.26	24.36
COLLECTED BY	URS	URS	URS
Constituent			
1,1-Dichloroethene	1.8J	ND	ND
Acetone	ND	ND	ND
Methylene Chloride	ND	ND	ND
Chloroform	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
Bromodichloromethane	ND	ND	ND
1,1,2-Trichloroethene	ND	ND	ND
Tetrachloroethene	250D	140	250D
Xylene (total)	ND	ND	ND

ASMW-3			
DATE SAMPLED	09/25/03	10/21/03	11/25/03
GROUNDWATER ELEVATION (4)	25.41	24.96	25.01
COLLECTED BY	URS	URS	URS
Constituent			
1,1-Dichloroethene	ND	ND	ND
Acetone	ND	ND	ND
Methylene Chloride	ND	ND	ND
Chloroform	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
Bromodichloromethane	ND	1.0J	ND
1,1,2-Trichloroethene	ND	ND	ND
Tetrachloroethene	13	1.4J	2.1J
Xylene (total)	ND	ND	ND

ASMW-4			
DATE SAMPLED	09/25/03	10/21/03	11/25/03
GROUNDWATER ELEVATION (4)	22.33	22.23	23.33
COLLECTED BY	URS	URS	URS
Constituent			
1,1-Dichloroethene	ND	ND	ND
Acetone	ND	ND	ND
Methylene Chloride	ND	ND	ND
Chloroform	ND	4.0J	3.0J
1,1,1-Trichloroethane	ND	ND	ND
Bromodichloromethane	ND	ND	ND
1,1,2-Trichloroethene	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Xylene (total)	ND	ND	ND

ASMW-5			
DATE SAMPLED	09/25/03	10/21/03	11/25/03
GROUNDWATER ELEVATION (4)	23.43	23.33	22.63
COLLECTED BY	URS	URS	URS
Constituent			
1,1-Dichloroethene	ND	ND	ND
Acetone	ND	ND	440
Methylene Chloride	2.1J	ND	ND
Chloroform	3.6J	ND	ND
1,1,1-Trichloroethane	ND	ND	ND
Bromodichloromethane	ND	ND	ND
1,1,2-Trichloroethene	ND	ND	ND
Tetrachloroethene	ND	ND	ND
Xylene (total)	ND	ND	1.0J

TAX LOT 36-C-221
MERCY HOSPITAL ASSOCIATION
LIBER 4894 PAGE 133

ASMW-1
EW-2
EW-1
ASMW-2
ASMW-3
ASMW-4
ASMW-5
MCOL-1
P-50
P-51

SOUTHERN STATE PA...
N/F STATE OF NEW YORK
CONTRACT LIMITS
GRASS AREA
TENNIS COURTS
MACADAM PARKING AREA
WILLIAM A. CASEY CENTER 2-STORY BRICK
OLEARY HALL 2-STORY BRICK BUILDING
TAX LOT 36-C-104D & 104E MOLLOY CATHOLIC COLLEGE FOR WOMEN LIBER 6989 PAGE 585
TAX LOT 36-C-219
S15°48'18"W 70.46'
S20°12'58"W 102.26'
S13°35'
N18°21'30"E 242.07'
S04°22'E 412.12'
501.74'
140'
160'
RVC-4C
RVC-6 N-3745
RVC-4B
N-72
N-3745
water tower?

GROUNDWATER MONITORING WELLS				
WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH	GROUND SURFACE ELEVATION (4)	TOP OF CASING ELEVATION (4)
ASMW-1	90'-0"	10'-0"	47.88	47.19
ASMW-2	90'-0"	10'-0"	46.74	46.16
ASMW-3	90'-0"	10'-0"	47.13	48.81
ASMW-4	110'-0"	10'-0"	44.11	43.93
ASMW-5	133'-0"	10'-0"	44.42	44.03

ABBREVIATIONS:
D - DILUTED
J - ESTIMATED
ND - NOT DETECTED

NOTES:
1. GROUNDWATER SAMPLES ANALYZED UNDER USEPA METHOD OLM 04.2
2. ONLY HITS ARE REPORTED. ALL OTHERS ARE NOT DETECTED ABOVE THE MDL
3. RESULTS ARE REPORTED IN MICROGRAMS PER LITER (ug/l)
4. MEASURED IN FEET ABOVE MEAN SEA LEVEL

LEGEND:
- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- SUPPLY WELL
- FORMER GROUNDWATER PROBE

0 120 240
SCALE IN FEET

FRANKLIN CLEANERS SITE (OFF-SITE)
VILLAGE OF ROCKVILLE CENTRE, NEW YORK

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

MONITORING WELL LOCATION MAP AND SUMMARY OF SAMPLE RESULTS SEPTEMBER - NOVEMBER 2003

FIGURE 1-2

Dvirka and Bartilucci
CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045
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Kenneth P. Wenz, Jr., C.P.G.

January 30, 2004

Jeffery E. Trad, P.E.
Bureau of Construction Services
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7013

Re: Franklin Cleaners Site
NYSDEC Contract No. D004264
Site No. 1-30-050
D&B No. 1851

Dear Mr. Trad:

Enclosed please find a table summarizing the analytical results for groundwater samples collected by URS on November 25, 2003, as part of the routine operating period at the above-referenced site. The table also provides analytical results for the split samples collected by this office. A schematic (Figure 1) showing the sample locations has also been enclosed for your reference.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

Frank DeVita

Frank DeVita
Project Manager

FD/RKH/cmc
Enclosures
cc: T. Maher, D&B
R. Heling, D&B
♦1851\FD04LTR.DOC-35

TABLE 1
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
GROUNDWATER SAMPLING ANALYTICAL RESULTS FOR NOVEMBER 25, 2003

SAMPLE ID	ASMW-1		ASMW-2		ASMW-3		NYSDEC
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	Class GA
DATE OF COLLECTION	11/25/2005	11/25/2005	11/25/2005	11/25/2005	11/25/2005	11/25/2005	Groundwater
COLLECTED BY	URS	D&B	URS	D&B	URS	D&B	Standards
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	and Guidance Values
VOCs							
Dichlorodifluormethane	U	U	U	NM	U	NM	5 GV
Chloromethane	U	U	U	NM	U	NM	5
Vinyl chloride	U	U	U	NM	U	NM	2
Bromomethane	U	U	U	NM	U	NM	5
Chloroethane	U	U	U	NM	U	NM	5
Trichlorofluoromethane	U	U	U	NM	U	NM	5
1,1-Dichloroethene	1.3 J	U	U	NM	U	NM	5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	NM	U	NM	5
Acetone	U	U	U	NM	U	NM	50
Carbon disulfide	U	U	U	NM	U	NM	60 GV
Methyl acetate	U	U	U	NM	U	NM	--
Methylene chloride	U	U	U	NM	U	NM	5
trans 1,2-Dichloroethene	U	U	U	NM	U	NM	5
Methyl-tert butyl ether	U	U	U	NM	U	NM	10 GV
1,1-Dichloroethane	U	U	U	NM	U	NM	5
cis-1,2-Dichloroethene	U	U	U	NM	U	NM	5
2-Butanone	U	U	U	NM	U	NM	50 GV
Chloroform	1.2 J	1.0 J	U	NM	U	NM	7
1,1,1-Trichlorethane	1.7 J	2.0 J	U	NM	U	NM	5
Cyclohexane	U	U	U	NM	U	NM	--
Carbon tetrachloride	U	U	U	NM	U	NM	5
Benzene	U	U	U	NM	U	NM	1
1,2-Dichloroethane	U	U	U	NM	U	NM	1
Trichloroethene	U	U	U	NM	U	NM	5
Methylcyclohexane	U	U	U	NM	U	NM	--
1,2-Dichloropropane	U	U	U	NM	U	NM	1
Bromodichloromethane	U	U	U	NM	U	NM	50
cis-1,3-Dichloropropene	U	U	U	NM	U	NM	0
4-Methyl-2-pentanone	U	U	U	NM	U	NM	--
Toluene	U	U	U	NM	U	NM	5
trans-1,3-Dichloropropene	U	U	U	NM	U	NM	0
1,1,2-Trichloroethane	U	U	U	NM	U	NM	1
Tetrachloroethene	120	170	250 D	NM	2.1 J	NM	5
2-Hexanone	U	U	U	NM	U	NM	50 GV
Dibromochloromethane	U	U	U	NM	U	NM	50
1,2-Dibromoethane	U	U	U	NM	U	NM	5
Chlorobenzene	U	U	U	NM	U	NM	5
Ethylbenzene	U	U	U	NM	U	NM	5
Xylene (total)	U	U	U	NM	U	NM	5
Styrene	U	U	U	NM	U	NM	5
Bromoform	U	U	U	NM	U	NM	50 GV
Isopropylbenzene	U	U	U	NM	U	NM	5
1,1,2,2-Tetrachloroethane	U	U	U	NM	U	NM	5
1,3-Dichlorobenzene	U	U	U	NM	U	NM	3
1,4-Dichlorobenzene	U	U	U	NM	U	NM	3
1,2-Dichlorobenzene	U	U	U	NM	U	NM	3
1,2-Dibromo-3-chloropropane	U	U	U	NM	U	NM	0
1,2,4-Trichlorobenzene	U	U	U	NM	U	NM	5

NOTES:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
ug/L = Microgram per liter
NM: Not Monitored
D: Result taken from reanalysis at a secondary dilution
Concentration exceeds Groundwater Class GA Standards and Guidance Value
GV: Guidance Value
--: Not established

TABLE 1 (Continued)
FRANKLIN CLEANERS SITE
NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050
GROUNDWATER SAMPLING ANALYTICAL RESULTS FOR NOVEMBER 25, 2003

SAMPLE ID	ASMW-4		ASMW-5				NYSDEC Class GA Groundwater Standard and Guidance Values
SAMPLE TYPE	WATER	WATER	WATER	WATER			
DATE OF COLLECTION	11/25/2003	11/25/2003	11/25/2003	11/25/2003			
COLLECTED BY	URS	D&B	URS	D&B			
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)			
VOCs							
Dichlorodifluormethane	U	NM	U	NM			5 GV
Chloromethane	U	NM	U	NM			5
Vinyl chloride	U	NM	U	NM			2
Bromomethane	U	NM	U	NM			5
Chloroethane	U	NM	U	NM			5
Trichlorofluoromethane	U	NM	U	NM			5
1,1-Dichloroethene	U	NM	U	NM			5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	NM	U	NM			5
Acetone	120 U*	NM	440	NM			50
Carbon disulfide	U	NM	U	NM			60 GV
Methyl acetate	U	NM	U	NM			--
Methylene chloride	U	NM	U	NM			5
trans 1,2-Dichloroethene	U	NM	U	NM			5
Methyl-tert butyl ether	U	NM	U	NM			10 GV
1,1-Dichloroethane	U	NM	U	NM			5
cis-1,2-Dichloroethene	U	NM	U	NM			5
2-Butanone	U	NM	U	NM			50 GV
Chloroform	3.0 J	NM	U	NM			7
1,1,1-Trichlorethane	U	NM	U	NM			5
Cyclohexane	U	NM	U	NM			--
Carbon tetrachloride	U	NM	U	NM			5
Benzene	U	NM	U	NM			1
1,2-Dichloroethane	U	NM	U	NM			1
Trichloroethene	U	NM	U	NM			5
Methylcyclohexane	U	NM	U	NM			--
1,2-Dichloropropane	U	NM	U	NM			1
Bromodichloromethane	U	NM	U	NM			50
cis-1,3-Dichloropropene	U	NM	U	NM			0
4-Methyl-2-pentanone	U	NM	U	NM			--
Toluene	U	NM	U	NM			5
trans-1,3-Dichloropropene	U	NM	U	NM			0
1,1,2-Trichloroethane	U	NM	U	NM			1
Tetrachloroethene	U	NM	U	NM			5
2-Hexanone	U	NM	U	NM			50 GV
Dibromochloromethane	U	NM	U	NM			50
1,2-Dibromoethane	U	NM	U	NM			5
Chlorobenzene	U	NM	U	NM			5
Ethylbenzene	U	NM	U	NM			5
Xylene (total)	U	NM	1.0 J	NM			5
Styrene	U	NM	U	NM			5
Bromoform	U	NM	U	NM			50 GV
Isopropylbenzene	U	NM	U	NM			5
1,1,2,2-Tetrachloroethane	U	NM	U	NM			5
1,3-Dichlorobenzene	U	NM	U	NM			3
1,4-Dichlorobenzene	U	NM	U	NM			3
1,2-Dichlorobenzene	U	NM	U	NM			3
1,2-Dibromo-3-chloropropane	U	NM	U	NM			0
1,2,4-Trichlorobenzene	U	NM	U	NM			5

NOTES:

U: Compound analyzed for but not detected
J: Compound found at a concentration below CRDL, value estimated
ug/L = Microgram per liter
NM: Not Monitored
D: Result taken from reanalysis at a secondary dilution
Concentration exceeds Groundwater Class GA Standards and Guidance Value
GV: Guidance Value
--: Not established
U*: Result qualified as non-detect based on validation criteria

ASMW-1		
DATE SAMPLED	11/25/03	
COLLECTED BY	URS	D&B
GROUNDWATER ELEVATION (FEET ABOVE MSL)	24.59	
Constituent		
1,1-Dichloroethene	1.3J	ND
Acetone	ND	ND
Chloroform	1.2J	1.0J
1,1,1-Trichloroethene	1.7J	2.0J
Tetrachloroethene	120	170
Xylene (total)	ND	ND

ASMW-2	
DATE SAMPLED	11/25/03
COLLECTED BY	URS
GROUNDWATER ELEVATION (FEET ABOVE MSL)	24.36
Constituent	
1,1-Dichloroethene	ND
Acetone	ND
Chloroform	ND
1,1,1-Trichloroethene	ND
Tetrachloroethene	250D
Xylene (total)	ND

ASMW-3	
DATE SAMPLED	11/25/03
COLLECTED BY	URS
GROUNDWATER ELEVATION (FEET ABOVE MSL)	25.01
Constituent	
1,1-Dichloroethene	ND
Acetone	ND
Chloroform	ND
1,1,1-Trichloroethene	ND
Tetrachloroethene	2.1J
Xylene (total)	ND

ASMW-4	
DATE SAMPLED	11/25/03
COLLECTED BY	URS
GROUNDWATER ELEVATION (FEET ABOVE MSL)	23.33
Constituent	
1,1-Dichloroethene	ND
Acetone	U*
Chloroform	3.0J
1,1,1-Trichloroethene	ND
Tetrachloroethene	ND
Xylene (total)	ND

ASMW-5	
DATE SAMPLED	11/25/03
COLLECTED BY	URS
GROUNDWATER ELEVATION (FEET ABOVE MSL)	22.63
Constituent	
1,1-Dichloroethene	ND
Acetone	440
Chloroform	ND
1,1,1-Trichloroethene	ND
Tetrachloroethene	ND
Xylene (total)	1.0J

TAX LOT 36-C-221
MERCY HOSPITAL ASSOCIATION
LIBER 4894 PAGE 133

TAX LOT 36-C-219

TAX LOT 36-C-104D & 104E MOLLOY CATHOLIC COLLEGE FOR WOMEN
LIBER 6989 PAGE 585

SOUTHERN STATE PARKWAY EAST B

N/F STATE OF NEW YORK

MACADAM PARKING AREA

GRASS AREA

TENNIS COURTS

MACADAM PARKING AREA

P-50

WILLIAM A. CASEY CENTER 2-STORY BRICK BUILDING

WILBUR ARTS CENTER HAYS THEATRE 3-STORY BRICK BUILDING

QUEALY HALL 2-STORY BRICK BUILDING

ASMW-1 ASMW-2 ASMW-3 ASMW-4 ASMW-5 EW-1 EW-2 MCOL-1 P-51

N-72 N-3745 N-8218

GROUNDWATER MONITORING WELLS				
WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH	GROUND SURFACE ELEVATION (FEET ABOVE MSL)	TOP OF CASING ELEVATION (FEET ABOVE MSL)
ASMW-1	90'-0"	10'-0"	47.88	47.19
ASMW-2	90'-0"	10'-0"	46.74	46.16
ASMW-3	90'-0"	10'-0"	47.13	48.81
ASMW-4	110'-0"	10'-0"	44.11	43.93
ASMW-5	133'-0"	10'-0"	44.42	44.03

LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- SUPPLY WELL
- FORMER GROUNDWATER PROBE

0 120 240

SCALE IN FEET

ABBREVIATIONS:

D – DILUTED
J – ESTIMATED
ND – NOT DETECTED
U* – RESULT QUALIFIED AS NON-DETECT BASED ON VALIDATION CRITERIA

NOTES:

1. GROUNDWATER SAMPLES ANALYZED UNDER USEPA METHOD OLM 04.2.
2. ONLY HITS ARE REPORTED. ALL OTHERS ARE NOT DETECTED ABOVE THE MDL.
3. RESULTS ARE REPORTED IN MICROGRAMS PER LITER (UG/L)

FRANKLIN CLEANERS SITE
VILLAGE OF ROCKEVILLE CENTRE, NEW YORK

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

GROUNDWATER SAMPLING ANALYTICAL RESULTS
DATE COLLECTED - NOVEMBER 25, 2003

FIGURE 1

F:\1851\GW Sampling Results\1851- groundwater monitoring results november 25 2003.dwg, 01/29/04 01:30:04 PM, RHeling

etor

FAX TRANSMISSION

NYSDEC
625 Broadway
Albany, NY 12233
518-402-9814
Fax: 518-402-9819

Erin M. Crotty
Commissioner

To:	James Neri	**Date:**	January 23, 2004
Fax #:	631-694-4122	**Pages:**	4 including this cover sheet.
From:	Jeff Trad		
Subject:	Franklin Site		

COMMENTS:

James -

Here's the data for September, October and November 2003 for wells ASMW 1-5. The acetone in the latest round is rather high, and as we discussed, most likely a lab contaminant. I will split the next round with URS and have the DEC lab run a set to confirm. Also, regarding the chloroform, I'll check with URS to see if the wells were drilled/developed using chlorinated water. I'm going to go over their sampling procedure with them this Wednesday to see if they could have introduced acetone in any way.

Jeff

SUMMARY REPORT FOR MONITORING WELL SAMPLING

Client: NYSDEC
Project: Franklin Cleaners
Lab Case No.: R4403

Sample ID	FC-ASMW-1-01-RE	FC-ASMW-2-01-RE	FC-ASMW-3-01-RE	FC-ASMW-4-01-RE	FC-ASMW-5-01-RE	FC-ASMW-5-01-FR	Trip Blank
Lab Sample ID	R4403-01	R4403-02	R4403-03	R4403-04	R4403-05	R4403-06	R4403-07
Sampling Date	09/25/2003	09/25/2003	09/25/2003	09/26/2003	09/26/2003	09/26/2003	09/26/2003
Dilution Factor*	20.0	10.0	1.0	1.0	1.0	1.0	1.0
Volatiles by OLM04.2 (µg/L)							
Tetrachloroethene	380D	250D	13	<10	<10	<10	<0.5
1,1-Dichloroethene	2.5J	1.8J	<10	<10	<10	<10	<10
Chloroform	1.3J	<10	<10	<10	3.6J	3.7J	<10
Methylene Chloride	<10	<10	<10	<10	2.1J	2.9J	<10
TOTAL VO's:	383.8	251.8	13.0	ND	5.7	6.6	ND
Field Parameters							
pH (S.U.)	5.16	5.53	5.59	4.76	4.85	4.85	NA
Conductivity (mS/cm)	0.36	0.35	0.46	0.30	0.36	0.36	NA
Temperature (deg. C)	15.4	15.6	15.8	15.2	15.8	15.8	NA
Turbidity (NTU)	50	18	66	14	10	10	NA
Dissolved Oxygen (ppm)	3.7	0.8	3.6	0.4	2.8	2.8	NA
Iron	0.279	0.021J	<0.100	3.41	0.255	0.103	NA
Manganese	0.151	1.240	0.431	0.113	0.207	0.212	NA

NOTES:

Only values detected above the laboratory detection limit are listed
<...-Reporting Limit
ND - Not Detected
NA - Not Applicable
NP - No Proposed Limit
J - Associated value is an estimated quantity
U - Not present above associated level; blank contamination exists
D - Indicates values were taken from dilution run
* - Dilution factor used only for analyte with D flag; all other values reported with a dilution factor of 1.0

SUMMARY REPORT FOR MONITORING WELL SAMPLING

Client: NYSDEC
Project: Franklin Cleaners
Lab Case No.: R5190

Sample ID	FC-ASMW-1-03-RE	FC-ASMW-2-03-RE	FC-ASMW-2-03-XX	FC-ASMW-3-03-RE	FC-ASMW-3-03-FR	FC-ASMW-4-03-RE	FC-ASMW-5-03-RE	FC-BL-03-TB	Groundwater
Lab Sample ID	R5190-01	R5190-02	R5190-06	R5190-03	R5190-07	R5190-04	R5190-05	R5190-08	Standards
Sampling Date	11/25/2003	11/25/2003	11/25/2003	11/25/2003	11/25/2003	11/25/2003	11/25/2003	11/25/2003	
Dilution Factor*	1.0	5.0	1.0	1.0	1.0	1.0	1.0	1.0	
Volatiles by OLM04.2 (µg/L)									
1,1-Dichloroethene	1.3J	<10	<10	<10	<10	<10	<10	<10	5
Acetone	<50	<50	<50	<50	<50U	**120U**	**440**	<50	50
Chloroform	1.2J	<10	<10	<10	<10	3.0J	<10	<10	7
1,1,1-Trichloroethane	1.7J	<10	<10	<10	<10	<10	<10	<10	5
Tetrachloroethene	**120**	**250D**	<10	2.1J	1.9J	<10	<10	<10	5
m/p-Xylenes	<10	<10	<10	<10	<10	<10	1.0J	<10	5
TOTAL VO's:	124.2	250.0	ND	2.1	1.9	123.0	441.0	ND	
Field Parameters									
pH (S.U.)	58.71	5.80	NA	5.80	5.80	5.25	5.25	NA	NA
Conductivity (mS/cm)	0.37	0.35	NA	1.16	1.16	0.35	0.30	NA	NA
Temperature (deg. C)	14.08	14.00	NA	13.90	13.90	14.08	13.00	NA	NA
Turbidity (NTU)	59	20	NA	44	44	52	37	NA	NA
Dissolved Oxygen (mg/l)	4.5	4.4	NA	11.1	11.1	8.0	4.9	NA	NA

NOTES:

Only values detected above the laboratory detection limit are listed
<...-Reporting Limit
ND - Not Detected
NA - Not Applicable
NP - No Proposed Limit
Bold - Exceeded limit
J - Associated value is an estimated quantity
U - Not present above associated level; blank contamination exists
D - Indicates values were taken from dilution run
* - Dilution factor used only for analyte with D flag; all other values reported with a dilution factor of 1.0
FC-ASMW-2-02-XX is the Field Blank for this sampling event.
FC-ASMW-3-02-FR is the Field Replicate of sample ASMW-3.

SUMMARY REPORT FOR MONITORING WELL SAMPLING
Client: NYSDEC
Project: Franklin Cleaners
Lab Case No.: R4767

Sample ID	FC-ASMW-1-02-RE	FC-ASMW-2-02-RE	FC-ASMW-2-02-XX	FC-ASMW-3-02-RE	FC-ASMW-3-02-FR	FC-ASMW-4-02-RE	FC-ASMW-5-02-RE	FC-BL-02-TB
Lab Sample ID	R4767-01	R4767-02	R4767-06	R4767-03	R4767-07	R4767-04	R4767-05	R4767-08
Sampling Date	10/21/2003	10/21/2003	10/21/2003	10/21/2003	10/21/2003	10/21/2003	10/21/2003	10/21/2003
Dilution Factor*	10.0	10.0	1.0	1.0	1.0	1.0	1.0	1.0
Volatiles by OLM04.2 (µg/L)								
Acetone	<50	<50	9.8J	<50	<50	<50	<50	<50
Chloroform	1.3J	<10	<10	<10J	1.1J	4.0J	<10	<10
Bromodichloromethane	<10	<10	<10	1.0J	1.1J	<10	<10	<10
1,1,1-Trichloroethane	2.9J	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethene	340D	140	<10	1.4J	1.3J	<10	<10	<10
TOTAL VO's:	344.2	140.0	9.8	2.4	3.5	4.0	ND	ND
Field Parameters								
pH (S.U.)	5.36	5.75	NA	6.25	6.25	5.38	6.02	NA
Conductivity (mS/cm)	0.36	0.37	NA	0.38	0.38	0.35	0.20	NA
Temperature (deg. C)	15.6	17.3	NA	15.5	15.5	16.9	16.2	NA
Turbidity (NTU)	79	54	NA	110	110	59	46	NA
Dissolved Oxygen (mg/l)	6.4	4.5	NA	5.2	5.2	8.0	5.8	NA

NOTES:

Only values detected above the laboratory detection limit are listed
<...-Reporting Limit
ND - Not Detected
NA - Not Applicable
J - Associated value is an estimated quantity
U - Not present above associated level; blank contamination exists
D - Indicates values were taken from dilution run
* - Dilution factor used only for analyte with D flag; all other values reported with a dilution factor of 1.0
FC-ASMW-2-02-XX is the Field Blank for this sampling event.
FC-ASMW-3-02-FR is the Field Replicate of sample ASMW-3.

edoc

Dvirka and Bartilucci
CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 ▪ 718-460-3634 ▪ Fax: 516-364-9045
e-mail: db-eng@worldnet.att.net

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JUN - 9 2003

June 5, 2003

Principals
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Henry J. Chlupsa, P.E. *Executive Vice President*
Thomas F. Maher, P.E. *Vice President*
Robert T. Burns, P.E. *Vice President*
Richard M. Walka *Vice President*
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Senior Associates
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John A. Mirando, P.E.
Kenneth J. Pritchard, P.E.
Brian M. Veith, P.E.

Associates
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Rudolph F. Cannavale
Joseph A. Fioraliso, P.E.
Thomas P. Fox, P.G.
Gerald Gould, C.P.G.
William D. Merklin, P.E.
Michael Neuberger, P.E.
Edward J. Reilly
Charles J. Wachsmuth, P.E.
Kenneth P. Wenz, Jr., C.P.G.

Kenneth M. Sullivan
Project Manager
URS Corporation
201 Willowbrook Boulevard
P.O. Box 290
Wayne, NJ 07474-0290

Re: Franklin Cleaners (Site No. 1-30-050)
NYSDEC Contract No. D004264
Groundwater Extraction Well EW-2 -
Sieve Analysis Results and Well
Screen/Sand Pack Recommendations
D&B No. 1851-03B

Dear Mr. Sullivan:

We have reviewed the facsimile, as submitted by Joel Siegel on May 29, 2003, providing the sieve analysis results of the selected split spoon samples and well screen/sand pack recommendations for groundwater extraction Well EW-2 to be installed in accordance with the above-referenced Contract. At this time, the New York State Department of Environmental Conversation (NYSDEC) concurs with the recommendations provided, except for the following:

1. The proposed screen interval for groundwater extraction Well EW-2 shall be from 72'-87' below grade, rather than the recommended screen interval of 84'-99' below grade.

If you have any questions, please call.

Very truly yours,

Kenneth P. Wenz Jr

for Frank DeVita
Project Manager

FD/jmy
cc: J. Yavonditte, NYSDEC
J. Trad, NYSDEC
T. Maher (D&B)
K. Kaufman, URS
T. Stammler, URS
C. Okon, Delta Well & Pump
♦1851\FD03(A)LTR.DOC-94

eFor

From: Frank DeVita <FDeVita@db-eng.com>
To: "'Kevin_McGettigan@URSCorp.com'" <Kevin_McGettigan@URSCorp.com>, <Terrill_Stammler@URSCorp.com>
Date: 1/23/03 1:11PM
Subject: Franklin Cleaners Site - Site No. 1-30-050 - Well Installations

Kevin -

We understand that URS intends to proceed with the extraction well installation on Monday January 27, 2003. Please be advised of the following:

* During the project progress meeting on September 19, 2002, URS's Health and Safety Officer, Greg Gangemi, voiced concerns to the Department with regards to the safety during extraction well drilling activities along the Southern State Parkway. Has anything been done to address these concerns?

* Split spoon sampling is a responsibility of the contractor and shall be performed in accordance with Section 15450 (3.2) of the Standard Specifications. The results of the split spoon samples shall be submitted to the Engineer with the Contractor's borehole construction logs and recommendation for the well screen and sand pack at least five days prior to delivery of the well screen.

* Recording requirements during well drilling shall be as specified in Paragraph 1.3 of Section 15450.

* Decontamination during drilling activities shall be performed in accordance with the approved Health and Safety Plan.

Should you have any question please feel free to contact me at (516) 364-9890.

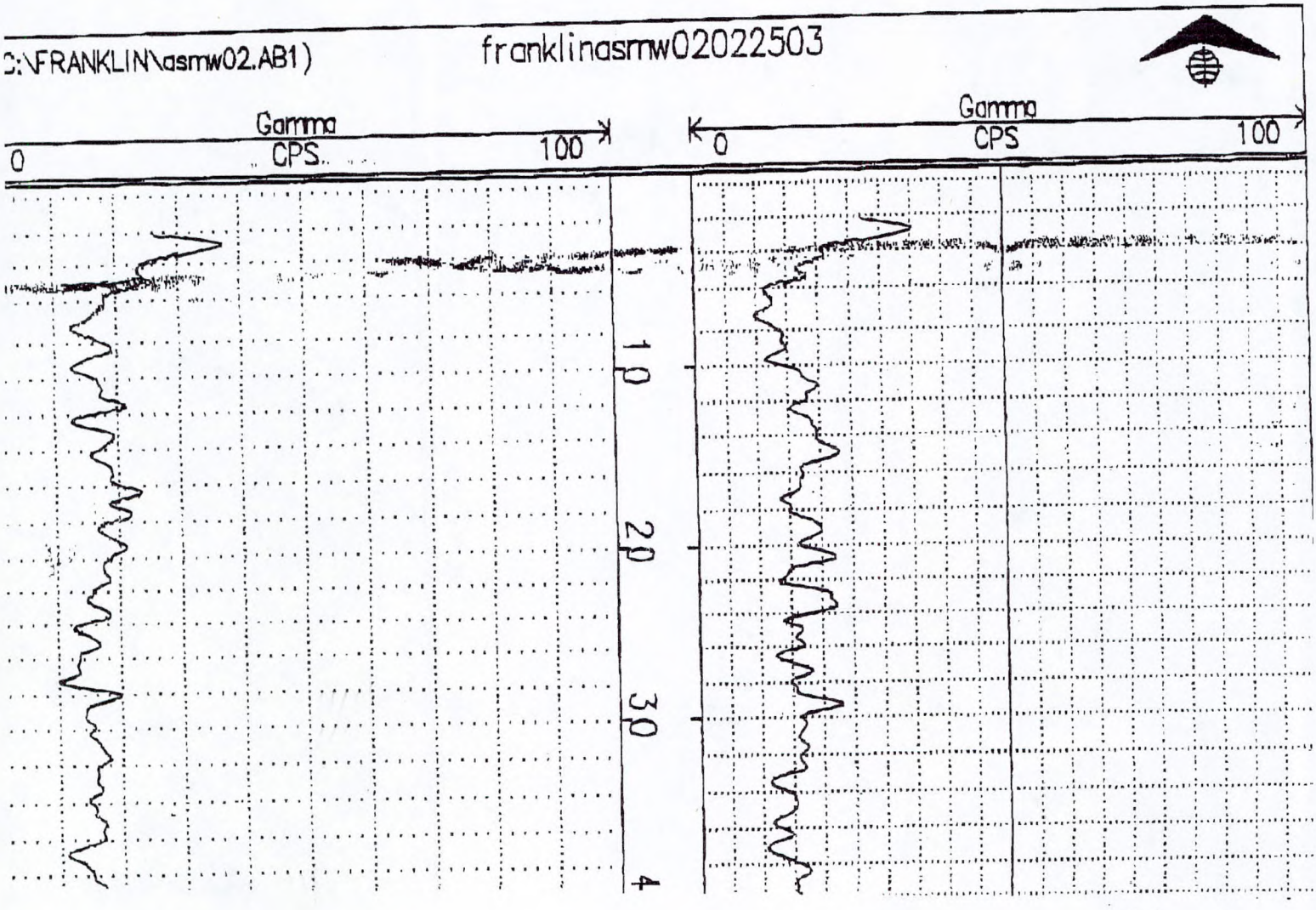
> FRANK DEVITA
> Dvirka and Bartilucci Consulting Engineers
> 330 Crossways Park Drive
> Woodbury, New York 11797
> 516-364-9890;9045(Fax)
> fdevita@db-eng.com
>

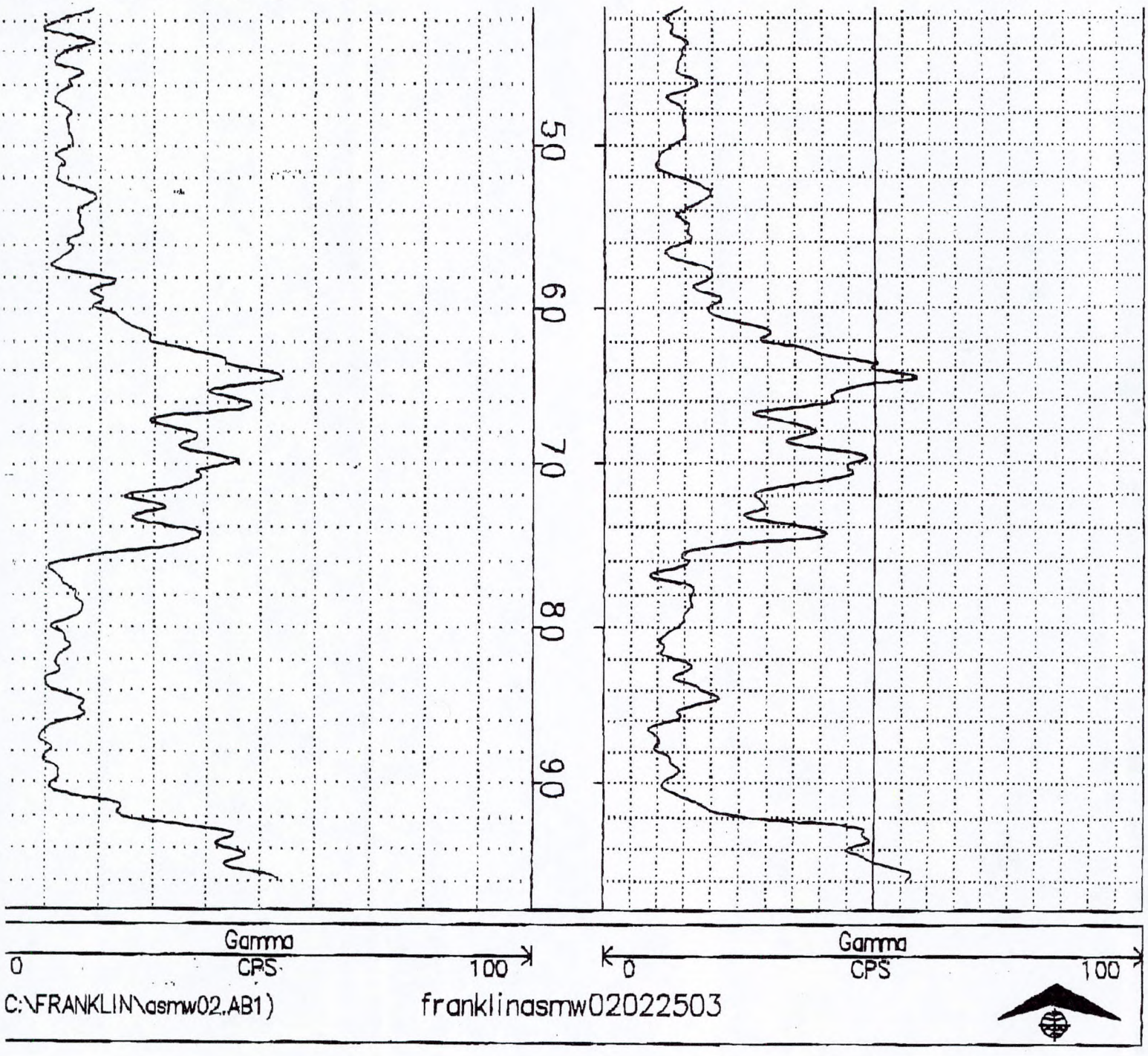
CC: "Jeffery Trad (E-mail)" <jetrad@gw.dec.state.ny.us>, Thomas F Maher <TMaher@db-eng.com>, Robert Heling <RHeling@db-eng.com>

eAer

To : Frank Denta
From Chris Morris
2 pages

Post-it® Fax Note 7671	Date	# of pages ▶ 2
To BTRail	From FDeVita	
Co./Dept.	Co.	
Phone #	Phone #	
Fax # 5186029819	Fax #	

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The information in this fax is intended for the named recipients only. It may contain privileged and confidential matter. If you have received this fax in error, please notify us immediately by a collect telephone call to (516) 364-9890 and return the original to the sender by mail. We will reimburse you for postage. Do not disclose the contents to anyone. Thank-you.

Dvirka and Bartilucci
CONSULTING ENGINEERS
330 Crossways Park Drive, Woodbury, New York 11797-2015
516-364-9890 • Fax: 516-364-9045

D&B FAX NO: (516) 364-9045 DATE: 4/30/03

Field Fax NO: 516 4830516

RECEIVED APR 30 2003

COMPANY NAME: NYSDEC

ATTENTION: Jef Frad

FAX NO.: 508 4029819

FROM: B. Heling Franklin Field office.

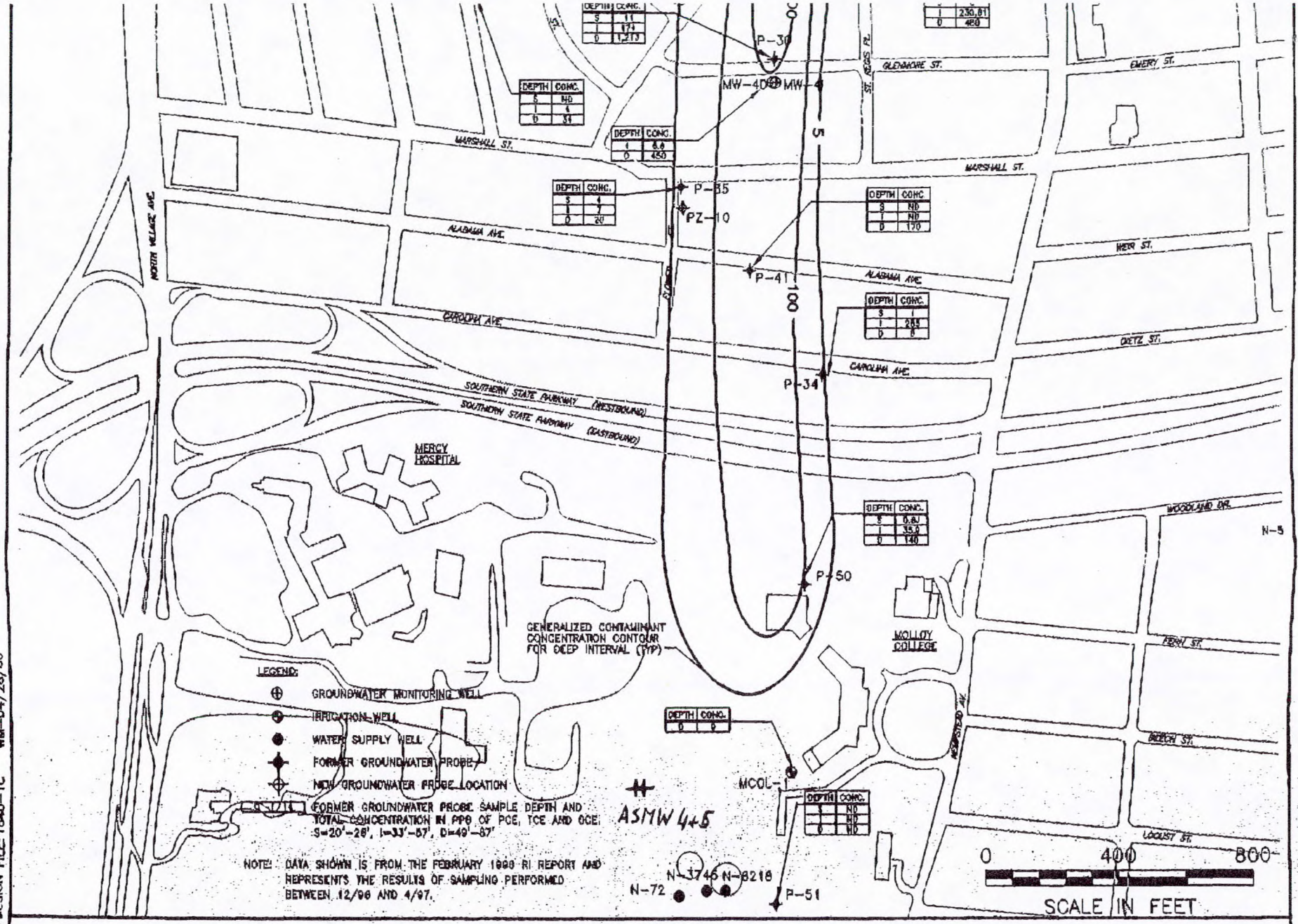
SUBJECT: Franklin Cleaners JOB#: 1851

NO. OF PAGES: 2
(including cover sheet)

MESSAGE:

location of monitoring well 4+5

THANK YOU: Robert



DIR: 1640/DESIGN FILE: 1640-1C WM-04/28/00

FRANKLIN CLEANERS SITE
HEMPSTEAD, NEW YORK

GROUNDWATER CONTAMINATION PLUME MAP

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

FIGURE 1-2

Trailer Chris Morris
516-483-0480
516-859-0639 chris cell's

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Dvirka and Bartilucci
CONSULTING ENGINEERS
330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 • Fax: 516-364-9045

D&B FAX NO: (516) 364-9045 DATE: 2/6/03

COMPANY NAME: NYSDEC

ATTENTION: JEFF TRAD

FAX NO.: (518) 402-9819

FROM: KEN WENZ

SUBJECT: FRANKLIN CLEANERS JOB#:

NO. OF PAGES: 3
(including cover sheet)

MESSAGE: JEFF!

ATTACHED IS THE GAMMA LOG FOR THE DEEP WELL TO THE SOUTH. THE CLAY WAS FOUND AT ~~110'~~ 110' AND IS ABOUT 1.5' THICK (SIMILAR TO THE IRRIGATION WELL BUT 4-6' DEEPER). ACCORDING TO OUR FIELD GEOLOGIST, THE CLAY IS ORGANIC/PEATY. BASED ON THIS INFORMATION, WE RECOMMEND THAT THE WELL SCREEN BE INSTALLED 115-125' BELOW GROUND SURFACE SO THAT THE BENTONITE SEAL ABOVE THE SAND PACK WILL EXTEND THROUGH THE CLAY.

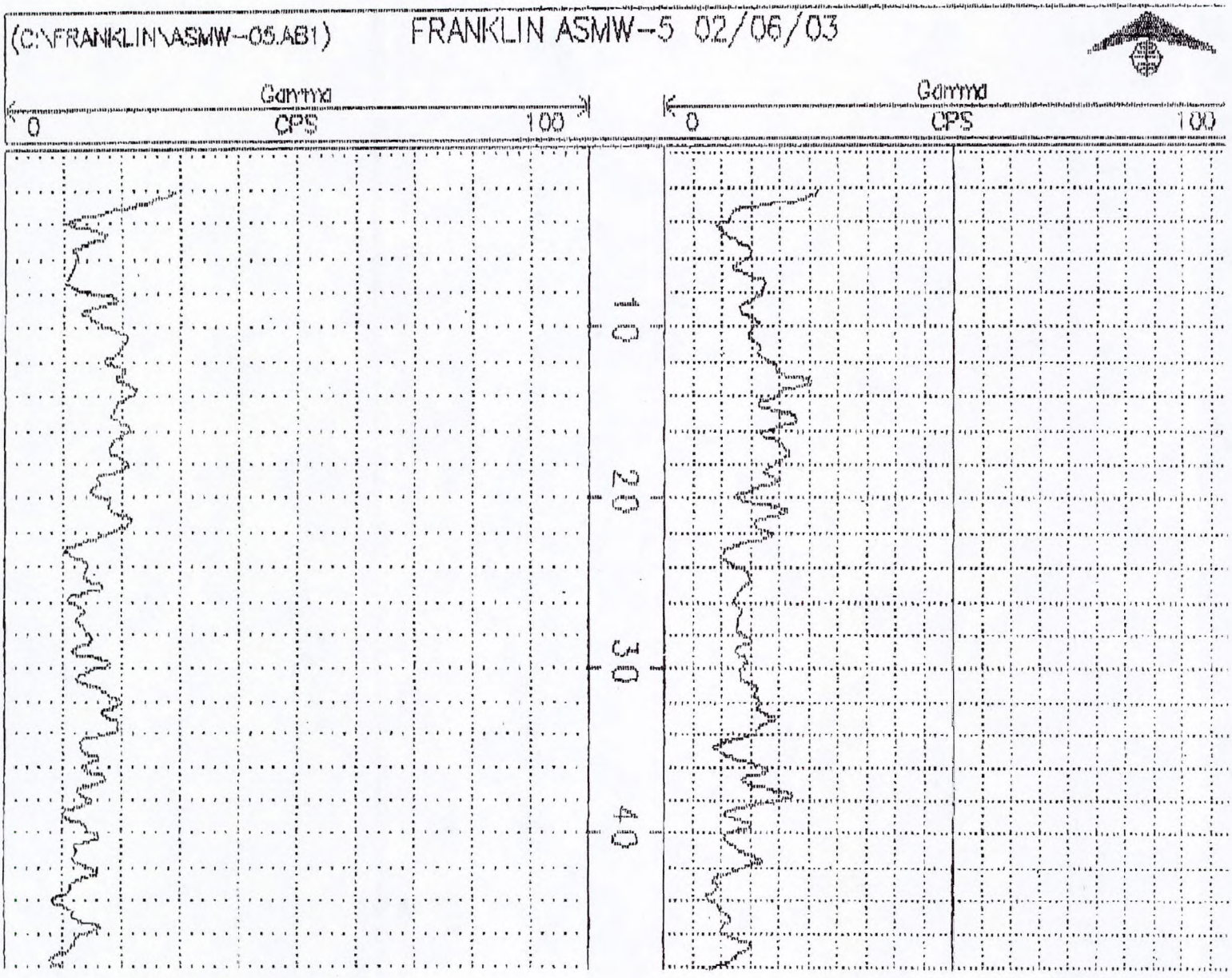
FRANK WILL CALL YOU TO DISCUSS.

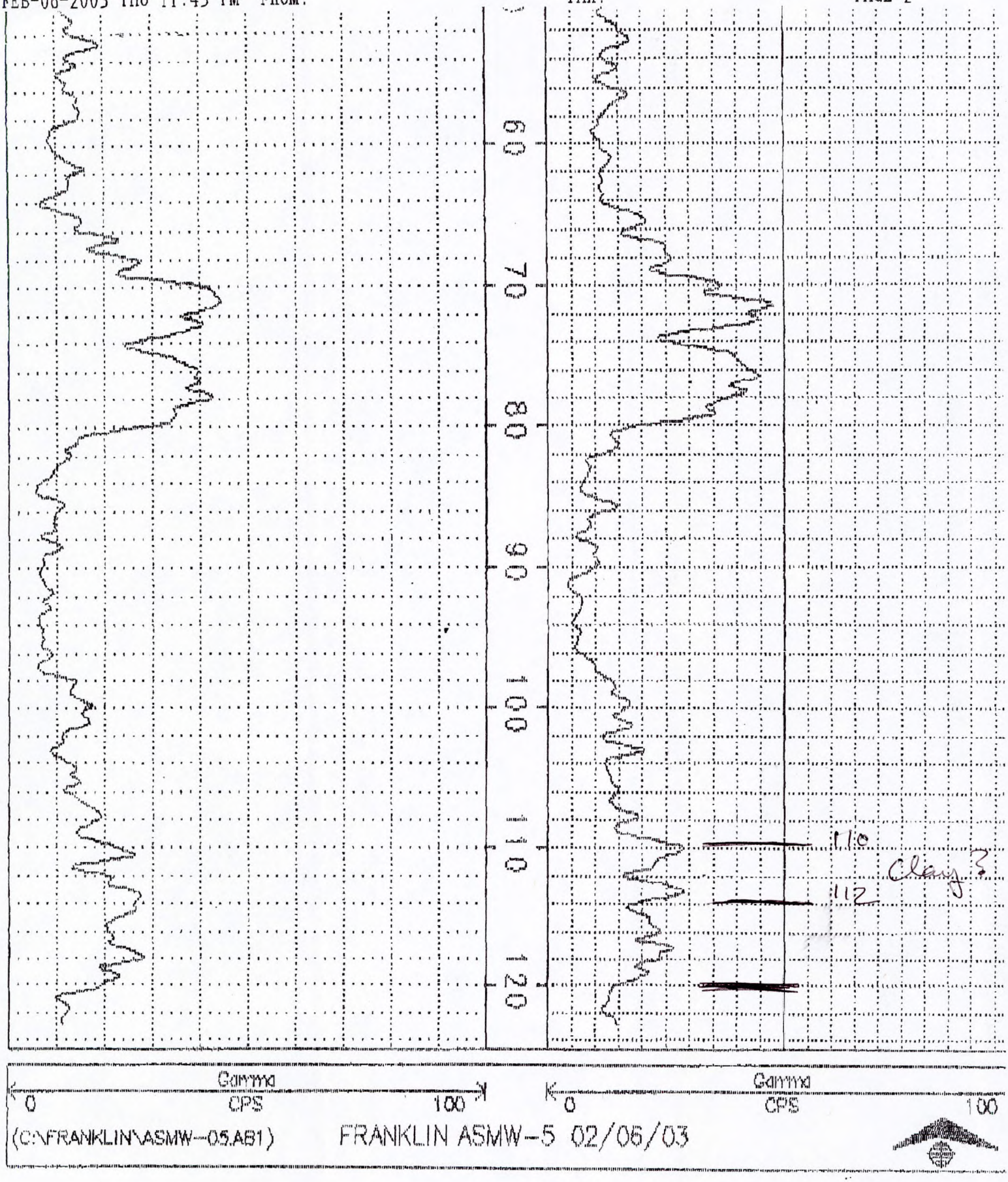
THANK YOU: Ken Wenz

To: Ken Wenz

From: Chris Morris

2 Pages

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FRANKLIN ASMW-5 02/06/03

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APR 17 2003

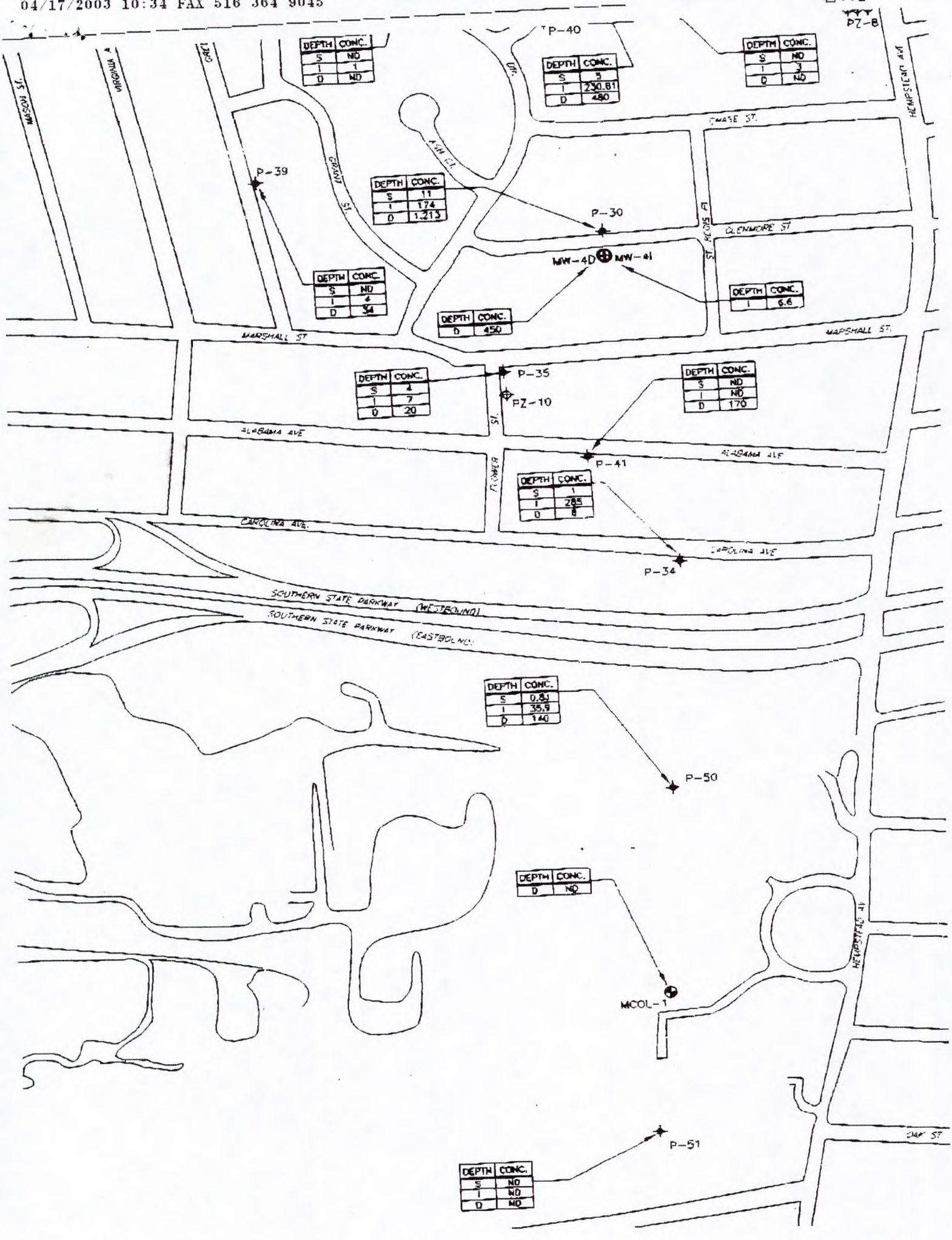
Post-it® Fax Note 7671	Date 4/17/03	# of pages ▶ 2
To J Strand.	From F DeVita	
Co./Dept.	Co.	
Phone #	Phone # 516 364 9890	
Fax # 518 402 9819	Fax #	

LEGEND:

- P-1 GROUNDWATER PROBE LOCATION AND NUMBER
- PZ-1 PIEZOMETER LOCATION AND NUMBER
- PS-1 PUBLIC WATER SUPPLY WELL LOCATION AND NUMBER
- PR-1 PRIVATE WELL LOCATION AND NUMBER
- MW-1 MONITORING WELL LOCATION AND NUMBER
- TB-1 TEST BORING LOCATION AND NUMBER
- [3 | 287] SHALLOW DEPTH (20'-28') GROUNDWATER PROBE SAMPLE AND TOTAL CONCENTRATION (IN ppb) OF PCE, TCE, AND DCE
- [1 | 8] INTERMEDIATE DEPTH (33'-57') GROUNDWATER PROBE SAMPLE AND TOTAL CONCENTRATION (IN ppb) OF PCE, TCE, AND DCE
- [1 | 14] DEEP DEPTH (49'-67') GROUNDWATER PROBE SAMPLE AND TOTAL CONCENTRATION (IN ppb) OF PCE, TCE, AND DCE
- PCE TETRACHLOROETHENE (PERCHLOROETHENE)
- TCE TRICHLOROETHENE
- DCE 1,1-DICHLORDETHENE 1,2-DICHLOROETHENE
- ND NON-DETECT

NOTE:

GROUNDWATER PROBE LOCATIONS P-42, P-43, P-44, P-45, P-46 AND P-47 ARE LOCATED NORTH OF THIS MAP.


PZ-8
P-40
DEPTH CONC.
S ND
I 1
D ND
DEPTH CONC.
S 3
I 230.81
D 480
DEPTH CONC.
S ND
I ND
D 76
MARSHALL ST.
VIRGINIA AVE
CHASE ST.
HEMPSTEAD AVE
P-39
GRANT ST.
PARK CT.
DEPTH CONC.
S 11
I 174
D 1,213
P-30
GLENMORE ST
ST. MORIS CT
MW-4D
MW-4I
DEPTH CONC.
S ND
I 4
D 54
DEPTH CONC.
D 450
DEPTH CONC.
I 6.6
MARSHALL ST.
DEPTH CONC.
S 4
I 7
D 20
P-35
PZ-10
DEPTH CONC.
S ND
I ND
D 170
ALABAMA AVE
P-41
ALABAMA AVE
FT. CONDER ST.
DEPTH CONC.
S 1
I 285
D
CAROLINA AVE.
CAROLINA AVE
P-34
SOUTHERN STATE PARKWAY (WESTBOUND)
SOUTHERN STATE PARKWAY (EASTBOUND)
DEPTH CONC.
S 0.8J
I 35.9
D 140
P-50
DEPTH CONC.
D ND
MEMORIAL HWY
MCOL-1
P-51
DEPTH CONC.
S ND
I ND
D ND
DAY ST

A SMW2 1 3 4 5 MS MSD

Franklin Cleaners
Sample Results - Baseline Sampling - June 2003
Monitoring Wells
Units: ug/L

Preliminary
7/9/2003
not validated

Sample ID	FC-ASMW-2-01-RE	FC-ASMW-1-01-REDL	FC-ASMW-3-01-RE	FC-ASMW-4-01-RE	FC-ASMW-5-01-RE	FD	FBDL	Trip Blank
Dilution Factor	1	5	1	1	1	1	5	1
Tetrachloroethene	87	510 D	23	<10	<10	83	520 D	<10
1,1,1,-trichloroethane	<10	<50	<10	<10	<10	<10	<50	<10
Methy tert-butyl ether	<10	<50	1.6 J	<10	<10	<10	<50	<10
Chloroform	<10	<50	<10	4.4 J	<10	<10	<50	<10
m/p xylene	<20	<100	<20	<20	<20	<20	<100	<20

Only hits are reported
All others are not detected above the MDL

Jul-09-03 11:19am From-URS WAYNE 973 785 0023 T-185 P.002/004 F-879

edoc

Franklin Cleaners					Preliminary
Sample Results - Drum Sampling - July 2003					7/9/03
Drum Samples					not validated
Units: ug/L					
Sample ID	DRUMS676COTTING	DRUMS0104	DRUMS33A4A10	DRUMS821ASMW2	DRUMS156711
Dilution Factor	1	1	1	1	1
Acetone	<13	<11	<13	<11	11J
Tetrachloroethene	<13	<11	<13	<11	<12
1,1,1,-trichloroethane	<13	<11	<13	<11	<12
Methy tert-butyl ether	<13	<11	<13	<11	<12
Chloroform	<13	<11	<13	<11	<12
m/p xylene	<13	<11	<13	<11	<12
2-Pentane, 4-methyl-,(Z)-	<13	<11	<13	<11	<12
Only hits are reported					
All others are not detected above the MDL					

Post-it® Fax Note 7671 | Date 7/29/03 | # of pages ▶ 2

To J. Tiad	From F. DeVita
Co./Dept. NYSDEC	Co. D.B
Phone # (518) 402-9814	Phone # (516) 364-9790
Fax # (518) 402-9819	Fax # (516) 364-9045

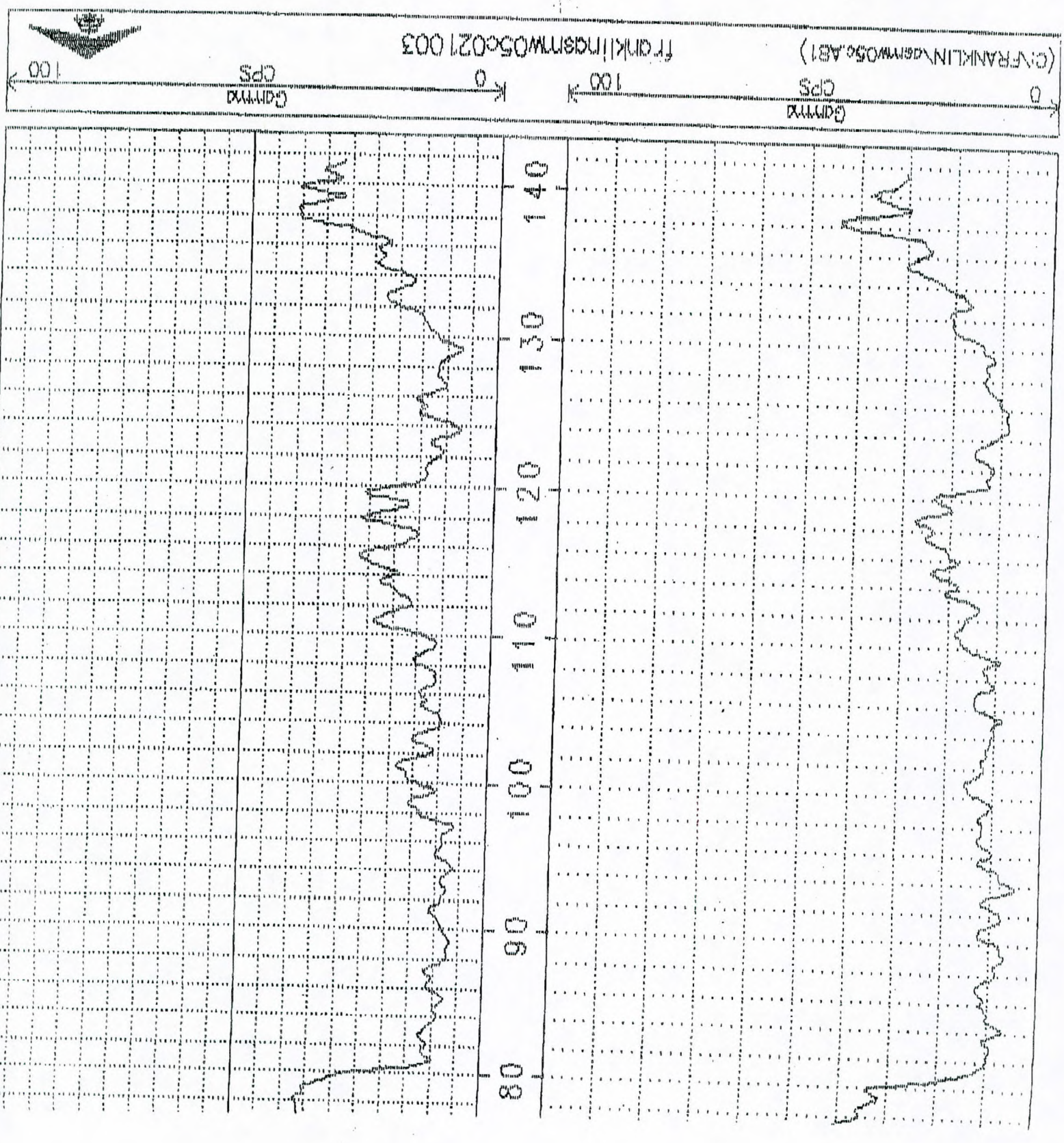
Franklin Cleaners					Preliminary
Sample Results - Drum Sampling - July 2003					7/8/03
Drum Samples					not validated
Sample ID	DRUMS891214	DRUMS2019181716	DRUM5C17SORFASMWJMW2SU	DRUMS15D	
Dilution Factor	1	1	1	1	
Acetone	<12	<11	<11	<12	
Tetrachloroethene	<12	<11	<11	<12	
1,1,1,-trichloroethane	<12	<11	<11	<12	
Methy tert-butyl ether	<12	<11	<11	<12	
Chloroform	<12	<11	<11	<12	
m/p xylene	<12	<11	<11	<12	
2-Pentane, 4-methyl-,(Z)-	6J	<11	<11	<12	
Only hits are reported					
All others are not detected above the MDL					

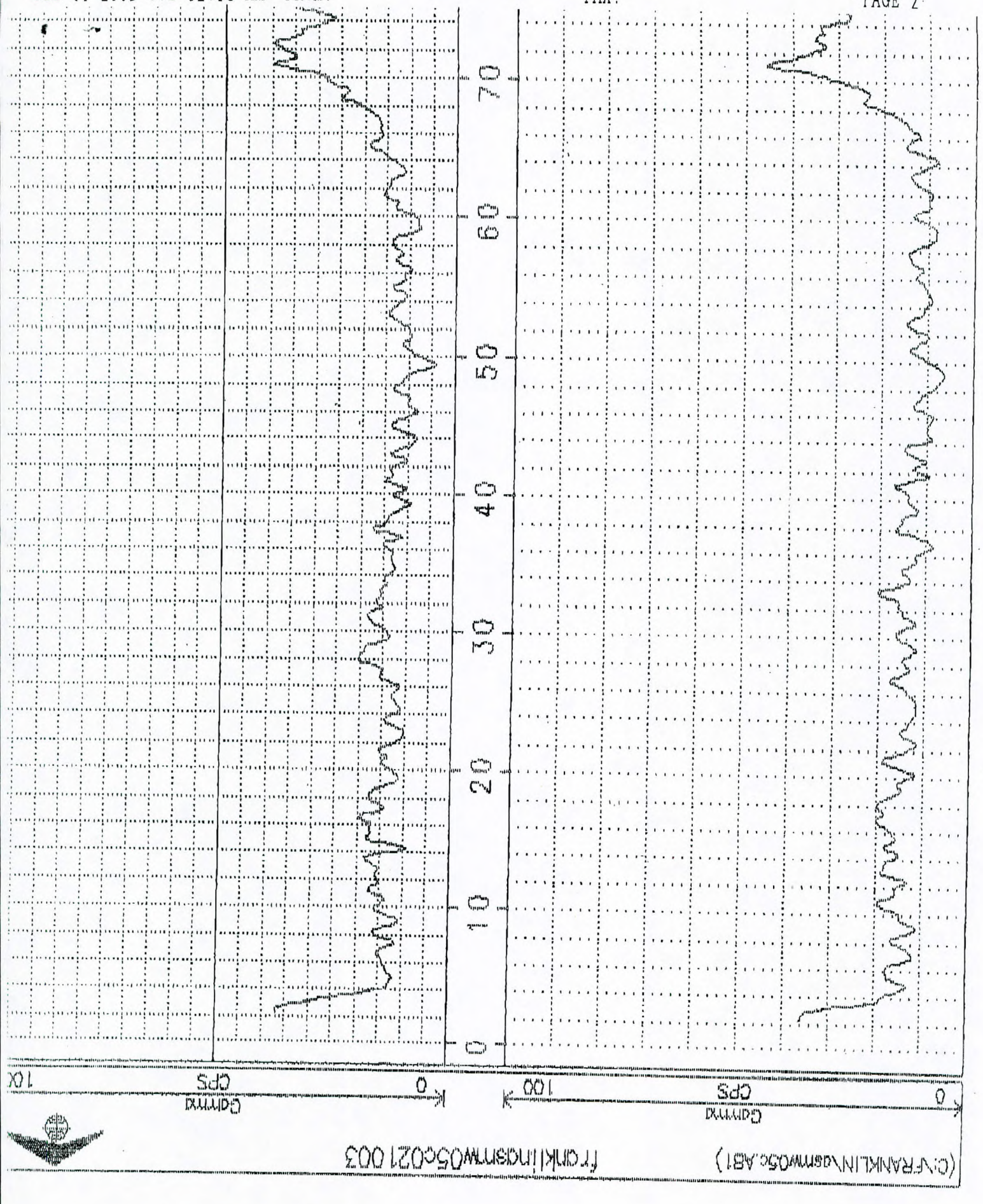
02/10/2003 12:52 FAX 516 364 9045 001

FEB-11-2003 TUE 02:15 AM FROM: FAX: PAGE 1

To: Ken Wenz
From: Chris Morris
2 pages

Post-it® Fax Note 7671	Date 2/10/03	# of pages ▶ 2
To TOM GIBBONS	From KEN WENZ	
Co./Dept. NYSDEC	Co. D&B	
Phone #	Phone # (516) 364-9890	
Fax # (518) 402-9627	Fax #	

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Odor

Groundwater Sampling Requirements:

6/17/03

	Baseline*	Quarter 1			Quarter 2	Quarter 3	Quarter 4
		Month 1	Month 2	Month 3			
	VOCs**	VOCs**	VOCs**	VOCs**	VOCs**	VOCs**	VOCs**
Contractor Responsibility	5	5	5	5	5	5	5
D&B Responsibility (10%) - four (4) samples total	1			1	1		1

* - Basline sampling event shall occur 30 days prior to system start-up.
** - Samples to be collected in accordance with EPASOW OLM04.2, in liue of NYSDEC ASP Method 95-1, for monitoring wells ASMW-1, ASMW-2, ASMW-3, ASMW-4 & ASMW-5

System Test Sampling Requirements:

		Day 1*	Day 2*	Day 3*	Day 4*	Day 5*
		VOCs**	VOCs**	VOCs**	VOCs**	VOCs**
Contractor Responsibility	EW-1 Effluent	1	1	1	1	1
	EW-2 Effluent	1	1	1	1	1
	Air Stripper Effluent	1	1	1	1	1
D&B Responsibility (10%) - two (2) samples total [one (1) EW effluent sample, one (1) air stripper effluent sample]**	EW-1 Effluent			1		
	EW-2 Effluent					
	Air Stripper Effluent			1		

* - Contractor shall collect samples until the analytical results of three (3) successive series of sampling events demonstrate the performance reqyuirements in Section 15200 have been met at the deign flow rates as determined by the Engineer.
** - Samples to be collected in accordance with EPASOW OLM04.2 in liue of NYSDEC ASP Method 95-1

Routine Operating Period Sampling Requirements:

		Month 1*				Month 2				Month 3				Month 4				Month 5				Month 6			
		VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH
Contractor Responsibility	EW-1 Effluent	2				2				2				2				2				2			
	EW-2 Effluent	2				2				2				2				2				2			
	Air Stripper Effluent	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
D&B Responsibility (10%) - three (3) VOC samples EW-1 effluent, three (3) VOC samples EW-2 effluent, three (3) VOC samples air stripper effluent, three (3) Fe samples air stripper effluent, three (3) Mn samples air stripper effluent, and three (3) pH samples air stripper effluent for 12 month operating period	EW-1 Effluent	1***																							
	EW-2 Effluent	1***																							
	Air Stripper Effluent	1***	1***	1***	1***																				

* - Samples to be collected in accordance with EPASOW OLM04.2 in liue of NYSDEC ASP Method 95-1
** - 1st round of samples to be collected 15 days after the Operating Period begins
*** - Samples to be collected during 1st sampling interval for the selected month.

		Month 7				Month 8				Month 9				Month 10				Month 11				Month 12			
		VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH
Contractor Responsibility	EW-1 Effluent	2				2				2				2				2				2			
	EW-2 Effluent	2				2				2				2				2				2			
	Air Stripper Effluent	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
D&B Responsibility (10%) - three (3) VOC samples EW-1 effluent, three (3) VOC samples EW-2 effluent, three (3) VOC samples air stripper effluent, three (3) Fe samples air stripper effluent, three (3) Mn samples air stripper effluent, and three (3) pH samples air stripper effluent for 12 month operating period	EW-1 Effluent	1***																				1***			
	EW-2 Effluent	1***																				1***			
	Air Stripper Effluent	1***	1***	1***	1***																	1***	1***	1***	1***

* - Samples to be collected in accordance with EPASOW OLM04.2 in liue of NYSDEC ASP Method 95-1
** - 1st round of samples to be collected 15 days after the Operating Period begins
*** - Samples to be collected during 1st sampling interval for the selected month

Groundwater Sampling Requirements:

	Baseline*	Quarter 1			Quarter 2	Quarter 3	Quarter 4
		Month 1	Month 2	Month 3			
	VOCs**	VOCs**	VOCs**	VOCs**	VOCs**	VOCs**	VOCs**
Contractor Responsibility	5	5	5	5	5	5	5
D&B Responsibility (10%) - four (4) samples total	1			1	1		1

* - Basline sampling event shall occur 30 days prior to system start-up.

** - Samples to be collected in accordance with EPASOW OLM04.2, in liue of NYSDEC ASP Method 95-1, for monitoring wells ASMW-1, ASMW-2, ASMW-3, ASMW-4 & ASMW-5

← open box for dates

System Test Sampling Requirements:

		Day 1*	Day 2*	Day 3*	Day 4*	Day 5*
		VOCs**	VOCs**	VOCs**	VOCs**	VOCs**
Contractor Responsibility	EW-1 Effluent	1	1	1	1	1
	EW-2 Effluent	1	1	1	1	1
	Air Stripper Effluent	1	1	1	1	1
D&B Responsibility (10%) - two (2) samples total [one (1) EW effluent sample, one (1) air stripper effluent sample]**	EW-1 Effluent			1		
	EW-2 Effluent					
	Air Stripper Effluent			1		

* - Contractor shall collect samples until the analytical results of three (3) successive series of sampling events demonstrate the performance reqyuirements in Section 15200 have been met at the deign flow rates as determined by the Engineer.

** - Samples to be collected in accordance with EPASOW OLM04.2 in liue of NYSDEC ASP Method 95-1

Dates

24 hr turnaround (01652-8, 1.11)

all others 14 day

Routine Operating Period Sampling Requirements:

		Month 1*				Month 2				Month 3				Month 4				Month 5				Month 6			
		VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH
Contractor Responsibility	EW-1 Effluent	2				2				2				2				2				2			
	EW-2 Effluent	2				2				2				2				2				2			
	Air Stripper Effluent	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
D&B Responsibility (10%) - three (3) VOC samples EW-1 effluent, three (3) VOC samples EW-2 effluent, three (3) VOC samples air stripper effluent, three (3) Fe samples air stripper effluent, three (3) Mn samples air stripper effluent, and three (3) pH samples air stripper effluent for 12 month operating period	EW-1 Effluent	1***																							
	EW-2 Effluent	1***																							
	Air Stripper Effluent	1***	1***	1***	1***																				

* - Samples to be collected in accordance with EPASOW OLM04.2 in liue of NYSDEC ASP Method 95-1

** - 1st round of samples to be collected 15 days after the Operating Period begins.

*** - Samples to be collected during 1st sampling interval for the selected month.

is this page 01651-7 GAC influent + effluent?

		Month 7				Month 8				Month 9				Month 10				Month 11				Month 12			
		VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH	VOCs**	Fe	Mn	pH
Contractor Responsibility	EW-1 Effluent	2				2				2				2				2				2			
	EW-2 Effluent	2				2				2				2				2				2			
	Air Stripper Effluent	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
D&B Responsibility (10%) - three (3) VOC samples EW-1 effluent, three (3) VOC samples EW-2 effluent, three (3) VOC samples air stripper effluent, three (3) Fe samples air stripper effluent, three (3) Mn samples air stripper effluent, and three (3) pH samples air stripper effluent for 12 month operating period	EW-1 Effluent	1***																				1***			
	EW-2 Effluent	1***																				1***			
	Air Stripper Effluent	1***	1***	1***	1***																	1***	1***	1***	1***

* - Samples to be collected in accordance with EPASOW OLM04.2 in liue of NYSDEC ASP Method 95-1

** - 1st round of samples to be collected 15 days after the Operating Period begins.

*** - Samples to be collected during 1st sampling interval for the selected month.

Molloy College
Education in the Dominican Tradition
1000 HEMPSTEAD AVENUE
ROCKVILLE CENTRE, L.I., NEW YORK 11570-1199
TELEPHONE 678-5000

FAX NUMBER 516 766-0776

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DATE: 7/8/02

PLEASE DELIVER THE FOLLOWING PAGE(S) TO:

NAME New York State Dept. of Conservation

FAX # 518-402-9819

FROM JAMES MULTARI

TOTAL NUMBER OF PAGES 6 INCLUDING COVER LETTER.

MESSAGE:

SCILAB

Customer: A.L.A.C. Inc. WELL WATER

Workorder No. 0205-00410

Sample: 001 A-03
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
trans-1,3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,1,2-Trichloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,3-Dichloropropane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Tetrachloroethene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Dibromochloromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2-Dibromoethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Chlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Ethylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
m & p-Xylene	EPA 524.2	ND	ug/L	1.0	NAC	05/31/2002	
o-Xylene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Styrene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Bromoform	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Isopropylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,3-Trichloropropane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
n-Propylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Bromobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,3,5-Trimethylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
2-Chlorotoluene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
4-Chlorotoluene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
tert-Butylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,4-Trimethlybenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
sec-Butylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
4-Isopropyltoluene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,3-Dichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,4-Dichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
n-Butylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2-Dichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2-Dibromo-3-Chloropropan	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,4-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Hexachlorobutadiene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Naphthalene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,3-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
4-BROMOFLUOROBENZEN		119	%		NAC	05/31/2002	
1,2-DICHLOROBENZENE-D		92.8	%		NAC	05/31/2002	

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744

SCILAB

Customer: A.L.A.C. Inc. WELL WATER

Workorder No. 0205-00410

Sample: 002 A-05
Date: 05/29/2002
Matrix: WATER

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date 00/00/0000	Qual
Target Analyte List Metals							
Aluminum	200.7, EPA 1987	ND	mg/L	0.15	CMC	06/04/2002	
Antimony	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Barium	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Arsenic	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Beryllium	200.7, EPA 1987	ND	mg/L	0.001	CMC	06/04/2002	
Cadmium	200.7, EPA 1987	ND	mg/L	0.0011	CMC	06/04/2002	
Chromium	200.7, EPA 1987	ND	mg/L	0.006	CMC	06/04/2002	
Calcium	200.7, EPA 1987	7.82	mg/L	0.3	CMC	06/04/2002	
Copper	200.7, EPA 1987	ND	mg/L	0.025	VEN	06/03/2002	
Cobalt	200.7, EPA 1987	ND	mg/L	0.05	CMC	06/04/2002	
Iron	200.7, EPA 1987	0.760	mg/L	0.100	VEN	06/03/2002	
Magnesium	200.7, EPA 1987	0.702	mg/L	0.2	CMC	06/04/2002	
Lead	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Manganese	200.7, EPA 1987	0.009	mg/L	0.007	CMC	06/04/2002	
Mercury	245.1, EPA 1983	ND	mg/L	0.0002	VEN	05/31/2002	
Nickel	200.7, EPA 1987	ND	mg/L	0.04	CMC	06/04/2002	
Potassium	200.7, EPA 1987	2.38	mg/L	0.500	CMC	06/04/2002	
Sodium	200.7, EPA 1987	261	mg/L	2.0	CMC	06/04/2002	
Silver	200.7, EPA 1987	ND	mg/L	0.005	CMC	06/04/2002	
Selenium	200.7, EPA 1987	ND	mg/L	0.020	CMC	06/04/2002	
Zinc	200.7, EPA 1987	0.0749	mg/L	0.050	CMC	06/03/2002	
Thallium	200.7, EPA 1987	ND	mg/L	0.04	CMC	06/04/2002	
Vanadium	200.7, EPA 1987	ND	mg/L	0.05	CMC	06/04/2002	

Sample: 003 A-06
Date: 05/29/2002
Matrix: WATER

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
Cyanide	4500-CN C,E SM 18	ND	mg/L	0.007	DMR	05/31/2002	

Customer: A.L.A.C. Inc. WELL WATER

B

Workorder No. 0205-00410

WATER

eter / y GC	Method D3328, ASTM	Results ND	Units ug/L	PQL 500	Analyst MB	Analysis Date 06/03/2002	Qual

le: 005 A-08
05/29/2002
x: WATER

eter / ng Water Volatiles	Method	Results	Units ug/L	PQL	Analyst NAC	Analysis Date 05/31/2002	Qual
rodifluoromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
methane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Chloride	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
methane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
ethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
rofluoromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
chloroethene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
ene Chloride	EPA 524.2	1.83	ug/L	0.50	NAC	05/31/2002	B
-Tert-Butyl-Ether	EPA 524.2	ND	ug/L	1.0	NAC	05/31/2002	
1,2-Dichloroethene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
chloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
chloropropane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
-Dichloroethene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
form	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
chloromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
richloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
chloropropene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
n Tetrachloride	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
chloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
ne	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
roethene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
chloropropane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
dichloromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
romethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
-Dichloropropene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
e	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
.3-Dichloropropene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	

ations: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744

Workorder No. 0205-00410

Sample: 005 A-08
(Continued)

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date	Qual
1,1,2-Trichloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,3-Dichloropropane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Tetrachloroethene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Dibromochloromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2-Dibromoethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Chlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,1,1,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Ethylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
m & p-Xylene	EPA 524.2	ND	ug/L	1.0	NAC	05/31/2002	
o-Xylene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Styrene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Bromoform	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Isopropylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,3-Trichloropropane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
n-Propylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Bromobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,3,5-Trimethylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
2-Chlorotoluene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
4-Chlorotoluene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
tert-Butylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,4-Trimethlybenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
sec-Butylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
4-Isopropyltoluene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,3-Dichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,4-Dichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
n-Butylbenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2-Dichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2-Dibromo-3-Chloropropan	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,4-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Hexachlorobutadiene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Naphthalene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
1,2,3-Trichlorobenzene	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
4-BROMOFLUOROBENZEN		119	%		NAC	05/31/2002	
1,2-DICHLOROBENZENE-D		97.0	%		NAC	05/31/2002	

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744

SCILAB

Workorder No. 0205-00410

Sample: 006 A-10
Date: 05/29/2002
Matrix: WATER

Parameter	Method	Results	Units	PQL	Analyst	Analysis Date 00/00/0000	Qual
Target Analyte List Metals							
Aluminum	200.7, EPA 1987	ND	mg/L	0.15	CMC	06/04/2002	
Antimony	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Barium	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Arsenic	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Beryllium	200.7, EPA 1987	ND	mg/L	0.001	CMC	06/04/2002	
Cadmium	200.7, EPA 1987	ND	mg/L	0.0011	CMC	06/04/2002	
Chromium	200.7, EPA 1987	ND	mg/L	0.006	CMC	06/04/2002	
Calcium	200.7, EPA 1987	5.25	mg/L	0.3	CMC	06/04/2002	
Copper	200.7, EPA 1987	ND	mg/L	0.025	VEN	06/03/2002	
Cobalt	200.7, EPA 1987	ND	mg/L	0.05	CMC	06/04/2002	
Iron	200.7, EPA 1987	1.43	mg/L	0.100	VEN	06/03/2002	
Magnesium	200.7, EPA 1987	0.700	mg/L	0.2	CMC	06/04/2002	
Lead	200.7, EPA 1987	ND	mg/L	0.010	CMC	06/04/2002	
Manganese	200.7, EPA 1987	0.014	mg/L	0.007	CMC	06/04/2002	
Mercury	245.1, EPA 1983	ND	mg/L	0.0002	VEN	05/31/2002	
Nickel	200.7, EPA 1987	ND	mg/L	0.04	CMC	06/04/2002	
Potassium	200.7, EPA 1987	0.888	mg/L	0.500	CMC	06/04/2002	
Sodium	200.7, EPA 1987	4.70	mg/L	2.0	CMC	06/04/2002	
Silver	200.7, EPA 1987	ND	mg/L	0.005	CMC	06/04/2002	
Selenium	200.7, EPA 1987	ND	mg/L	0.020	CMC	06/04/2002	
Zinc	200.7, EPA 1987	0.169	mg/L	0.050	CMC	06/04/2002	
Thallium	200.7, EPA 1987	ND	mg/L	0.04	CMC	06/04/2002	
Vanadium	200.7, EPA 1987	ND	mg/L	0.05	CMC	06/04/2002	

Sample: 007 B-03
Date: 05/29/2002
Matrix: WATER

Parameter	Method	Results	Units ug/L	PQL	Analyst NAC	Analysis Date 05/31/2002	Qual
Drinking Water Volatiles							
Dichlorodifluoromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Chloromethane	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	
Vinyl Chloride	EPA 524.2	ND	ug/L	0.50	NAC	05/31/2002	

Certifications: MA: MA069 NY:10982 CT: PH0119 RI:A45 CA:2050 NJ: 59744

Post-it® Fax Note 7671	Date 6/28/02	# of pages ▶ 10
To JEFF TRAP	From FRANK DeVita	
Co./Dept. NYSDEC	Co. D & B	
Phone # 518-402-9814	Phone # 516-364-9890	
Fax # 518-402-9819	Fax # 516-364-9045	

Dvirka and Bartilucci
CONSULTING ENGINEERS

330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 • 718-460-3634 • Fax: 516-364-9045
e-mail: db-eng@worldnet.att.net

July 21, 2000

David A. Camp, P.E.
New York State Department of
Environmental Conservation
Bureau of Eastern Remedial Action
Division of Environmental Remediation
50 Wolf Road
Albany, New York 12233-7010

RECEIVED
JUN 28 2002
BUREAU OF CONSTRUCTION SERVICES

Re: Irrigation Well
Franklin Cleaners (Site Registry No. 1-30-050)
NYSDEC Work Assignment No. D003600-10
D&B No. 1640-3

Dear Mr. Camp:

The purpose of this letter is to provide you with a summary of the work performed in connection with the irrigation well at Molloy College in Rockville Centre. Enclosed please find the split spoon soil sample logs (Attachment A), the well construction log (Attachment B) and the results of the groundwater testing (Attachment C).

Well Construction

Mobilization and setup including positioning of the drill rig, arrangements for water, access and egress routes for equipment, and a disposal area for drill cuttings were established on June 5, 2000. Drilling activities commenced on June 6. The mud rotary method of drilling was used.

Initially, a 14-inch diameter drill bit was advanced to approximately 90 feet below ground surface (bgs). Beginning at approximately 90 feet bgs, split spoon samples were collected to determine the appropriate depth at which to set the 12-inch diameter outer casing of the well. A total of eight (8) split spoons samples were collected at approximately five-foot intervals (see soil sample logs in Attachment A). A clay layer was encountered between approximately 105 and 108 feet bgs. A depth of approximately 110 feet bgs was chosen to set the outer casing of the well.

Once the outer casing was set and pressure grouted in place, a 10-inch diameter drill bit was advanced through the outer casing to a depth of 420 feet bgs. The well screen and riser were installed as shown on the well construction log (see Attachment B). Well development was accomplished using an air compressor. One-inch diameter tubing was lowered to approximately

390 feet bgs and air was pumped into the well for approximately 8-hours. Well construction, development, and cleanup activities were completed on June 15. Landscaping of a damaged area of lawn was completed on July 1.

Well Sampling

Groundwater samples were collected on June 15, 2000, from the existing well (MCOL-S) and from the new well (MCOL-D). The new well was sampled using a disposable bailer upon completion and development of the well. The existing well was purged and sampled using the existing pump. The samples were analyzed for chlorinated volatile organic compounds by Mitkem Corporation. As can be seen in Attachment C, the results for both groundwater samples MCOL-S and MCOL-D indicate that no chlorinated VOCs were detected.

Pump Transfer

The pump was removed from the existing irrigation well and installed in the new well on June 15, 2000. A section of roof from the shed covering the existing well was removed to provide access for the drill rig. The drill rig was positioned over the well and the cables attached to the pump head. The individual sections of pipe were disconnected as the pump was pulled, and reconnected during the reinstallation of the pump in the new well. The pump was set in the new well at approximately 40 feet bgs and the wellhead assembly from the existing well was transferred to the new well. The aboveground wiring and pipe will be connected to the new well head by Molloy College. A new locking plug was placed on the existing irrigation well.

Please do not hesitate to contact me at (516) 364-9890 if you have any questions.

Very truly yours,

David S. Glass, P.E.
Project Manager

DSG/bl,ld
Enclosure
cc: T. Maher (D&B)
♦1640/DSG00LTR-13.DOC(R01)

ATTACHMENT A

SPLIT SPOON SOIL SAMPLE LOGS

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Project No.: 1640
Project Name: Franklin Cleaners Site

Boring No.: MCOL-D
Sheet 1 **of** 2
By: W. Mann

Drilling Contractor: UniTech Drilling Inc.
Driller: Joe Jester
Drill Rig: CME-85
Date Started: 6/5/00

Geologist: C. Morris
Drilling Method: Mud Rotary
Down-hole Hammer: no blow counts
Date Completed: 6/15/00

Boring Completion Depth: 420 feet
Ground Surface Elevation:
Boring Diameter: 14 / 10 inches

Depth (ft.)	Soil Sample No.	Type	Blows Per 6"	Rec	Sample Description
-0-					Medium brown sandy loam soil.
-1-					
-2-					
-3-					
-4-					Tan medium SAND with pebbles.
-5-					
					BREAK IN LOG – NO SAMPLES TO 92 FEET
-90-					
-91-					
-92-	92-94'	SS		12"	Loose, light gray, fine to medium quartz-feldspathic SAND.
-93-					
-94-					
-95-	95-97'	SS		12"	Loose, light-dark gray, fine to medium quartz-feldspathic SAND.
-96-					
-97-					
-98-					
-99-					
-100-	100-102'	SS		18"	Loose, light gray to brown, fine to medium quartz-feldspathic SAND.

Sample Types:

SS = Split Spoon

NOTES:

Water Table encountered at approximately 21 feet below ground surface.

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Project No.: 1640
Project Name: Franklin Cleaners Site

Boring No.: MCOL-D
Sheet 2 **of** 2
By: W. Mann

Drilling Contractor: UniTech Drilling Inc.
Driller: Joe Jester
Drill Rig: CME-85
Date Started: 6/5/00

Geologist: C. Morris
Drilling Method: Mud Rotary
Down-hole Hammer: no blow counts
Date Completed: 6/15/00

Boring Completion Depth: 420 feet
Ground Surface Elevation:
Boring Diameter: 14 / 10 inches

Depth (ft.)	Soil Sample No.	Type	Blows Per 6"	Rec	Sample Description
-101-					
-102-					
-103-					
-104-					
-105-	105-107'	SS		12"	Gray-brown, fine to medium quartz-feldspathic SAND.
-106-					Dark Gray, silty CLAY, with sand and silt striations.
-107-					
-108-	108-110'	SS		12"	4" wood. Gray, fine to medium SAND, little silt. Gray silty clay in tip of spoon.
-109-					
-110-	110-112'	SS		6"	Gray-brown, fine to medium quartz-feldspathic SAND.
-111-					
-112-					
-113-					
-114-					
-115-	115-117'	SS		8"	Dark gray-black, fine to medium quartz-feldspathic SAND.
-116-					
-117-					
-118-					
-119-					
-120-	120-122'	SS		18"	Dense, Black-Gray, fine to medium SAND, little silt
					END OF SPLIT SPOON SAMPLING.

Sample Types:

SS = Split Spoon

NOTES:
12" diameter schedule 40 steel outer casing installed at 110 feet below ground surface and pressure grouted in-place using a bentonite/Portland cement mix.

ATTACHMENT B

WELL CONSTRUCTION LOG

FRANKLIN CLEANERS SITE
MOLLOY COLLEGE IRRIGATION WELL

WELL CONSTRUCTION LOG

WELL No.: MCOL-D

SITE: MOLLOY COLLEGE

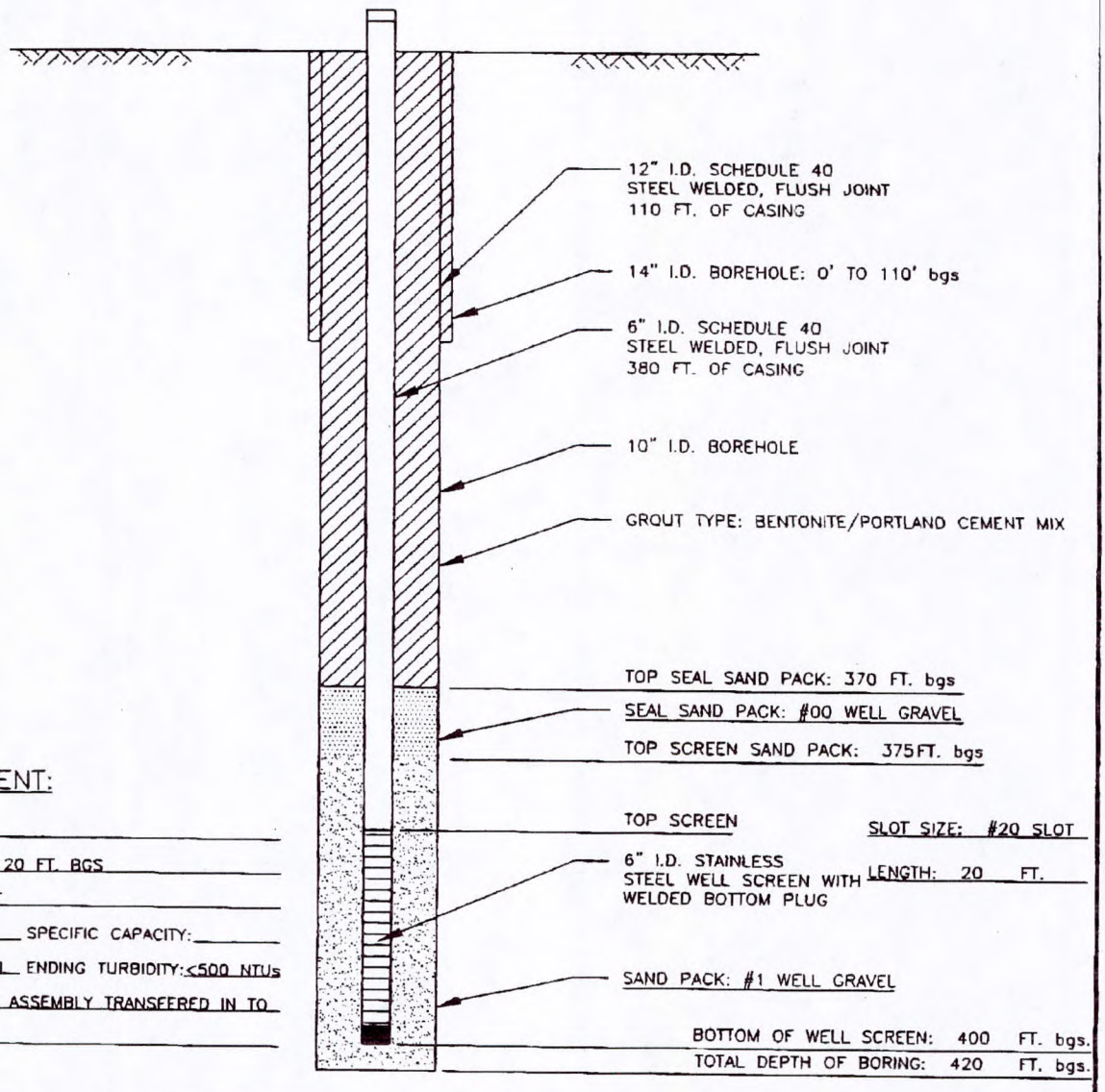
DRILLING COMPANY: UNI-TECH DRILLING COMPANY

DATE STARTED: 6/05/00 DATE COMPLETED: 6/15/00

DRILLING METHOD: MUD ROTARY

BOREHOLE DIAMETER: 14"/10" TOTAL BOREHOLE DEPTH: 420 FT.

TOTAL WELL DEPTH: 400 FT. DEPTH TO WATER: 20 FT. BELOW TOC.



WELL DEVELOPMENT:

METHOD: AIR LIFT

STATIC DEPTH TO WATER: 20 FT. BGS

PUMPING DEPTH: 390 FT

PUMPING RATE: 100 GPM SPECIFIC CAPACITY:

VOLUME PUMPED: 4800 GAL ENDING TURBIDITY: <500 NTUs

COMMENTS: EXISTING PUMP ASSEMBLY TRANSFERED IN TO NEW WELL.

FILE: 1640-WELL WM-07/20/00

FRANKLIN CLEANERS SITE
MOLLOY COLLEGE IRRIGATION WELL

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

ATTACHMENT C

GROUNDWATER SAMPLE TEST RESULTS

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MCOL-D

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70917

Matrix: (soil/water) WATER Lab Sample ID: 70917002

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6A5307

Level: (low/med) LOW Date Received: 06/16/00

% Moisture: not dec. _____ Date Analyzed: 06/22/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(u

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethyl vinyl ether	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U

1A

VOLATIL ORGANICS ANALYSIS DATA SHEE.

EPA SAMPLE NO.

MCOL-S

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: 70917

Matrix: (soil/water) WATER Lab Sample ID: 70917001

Sample wt/vol: 5.000 (g/mL) ML Lab File ID: V6A5306

Level: (low/med) LOW Date Received: 06/16/00

% Moisture: not dec. _____ Date Analyzed: 06/22/00

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(ul

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
75-35-4	1,1-Dichloroethene	1	U
75-09-2	Methylene Chloride	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
75-27-4	Bromodichloromethane	1	U
110-75-8	2-Chloroethyl vinyl ether	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
124-48-1	Dibromochloromethane	1	U
108-90-7	Chlorobenzene	1	U
75-25-2	Bromoform	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U

edr

URS

807260

KMS-08-08-03-01

RECEIVED
AUG 11 2003

August 8, 2003

Mr. Frank DeVita
Dvirka and Bartilucci
330 Crossways Park Drive
Woodbury, New York 11797-2015

Re: Franklin Cleaners (Site No. 1-30-050)
NYSDEC Contract No. D004264

Subj.: System Startup

Dear Mr. DeVita

Attached are summary tables, of the analytical results for the system startup sampling and system parameters as outlined in spec section 01650 A. 4. I have also included the chain of custody forms for the samples and the field notes for the startup system Data Sheets.

Sincerely

Kenneth Sullivan

Kenneth Sullivan
Project Manger

Cc: J. Tradd NYSDEC
T. Stammler URS
File

URS Corporation
P.O. Box 290
201 Willowbrook Boulevard
Wayne, NJ 07474-0290
Tel: 973.785.0700
Fax: 973.785.0023

SUMMARY REPORT
Client: URS Corporation
Project: Franklin Cleaners
Lab Case No.: R3449

Sample ID	FC-INF-1-01-STARTUP	FC-INF-2-01-STARTUP	FC-EFF-1-01-STARTUP
Lab Sample ID	R3449-01	R3449-02	R3449-03
Sampling Date	07/22/2003	07/22/2003	07/22/2003
Dilution Factor	1.0	1.0	1.0
Volatiles by OLM04.2 (µg/L)			
Methylene Chloride	<10	<10	<10
Trichloroethene	3.2J	<10	<10
Tetrachloroethene	420E	670E	<10
1,1-Dichloroethene	<10	2.8J	<10
1,1,1-Trichloroethane	<10	2.5J	<10
1,1,2-Trichloethane	<10	7.3J	<10
TOTAL VO's:	423.2	682.6	ND
Metals by 200.7 (µg/L)			
Iron	<17.3	73.6	7.1
Manganese	24.4	111	55.6

NOTES:

Only hits are reported
MDL-Method Detection Limit
ND - Non Detect
NA - Not Applicable
J - Indicates detected below MDL estimated value
U - Indicates compound not detected
D - Indicates values were taken from dilution run
E - Indicates compound results exceeds calibration range, estimated value

SUMMARY REPORT
Client: URS Corporation
Project: Franklin Cleaners
Lab Case No.: R3449

Sample ID	FC-GAC-INF-IN-01-01	FC-GAC-INF-IN-01-02	FC-GAC-EFF-OUT-01-01	FC-GAC-INF-IN-01-01
Lab Sample ID	R3449-04	R3449-05	R3449-06	R3449-07
Sampling Date	07/22/2003	07/22/2003	07/22/2003	07/22/2003
Dilution Factor				
Volatiles by OLM04.2 (µg/L)				
Methylene Chloride	<0.029	<0.029	<0.029	<0.029
Trichloroethene	<0.019	<0.019	<0.019	<0.019
Tetrachloroethene	0.222	0.257	<0.015	<0.015
1,1-Dichloroehtene	<0.025	<0.025	<0.025	<0.025
1,1,1-Trichloroethane	<0.018	<0.018	<0.018	<0.018
1,1,2-Trichloethane	<0.018	<0.018	<0.018	<0.018
TOTAL VO's:	0.222	0.257	ND	ND
Metals by 200.7 (µg/L)				
Iron	NA	NA	NA	NA
Manganese	NA	NA	NA	NA

NOTES:

690 cfm

Only hits are reported
MDL-Method Detection Limit
ND - Non Detect
NA - Not Applicable
J - Indicates detected below MDL estimated value
U - Indicates compound not detected
D - Indicates values were taken from dilution run
E - Indicates compound results exceeds calibration range, estimated value

.257 µg/L × 690 ft³/min × 1x10⁹ µg/g × .8 ft³/L × 60 min/hr × 1 lb/454 gm

.257 µg/L × 690 ft³/min × 60 min/hr × L/.03531 ft³ × gram/1x10⁹ µg × 1 lb/454 gm

SUMMARY REPORT
Client: URS Corporation
Project: Franklin Cleaners
Lab Case No.: R3489

Sample ID	FC-INF-1-02-STARTUP-DL	FC-INF-2-02-STARTUP-DL	FC-EFF-02-STARTUP	FC-TB
Lab Sample ID	R3489-01DL	R3489-02DL	R3489-03	R3489-04
Sampling Date	07/23/2003	07/23/2003	07/23/2003	07/23/2003
Dilution Factor	10.0	10.0	1.0	1.0
Volatiles by OLM04.2 (µg/L)				
Methylene Chloride	<100	<100	<10	<10
Trichloroethene	<100	<100	<10	<10
Tetrachloroethene	560	890D	<10	<10
1,1-Dichloroehtene	<100	<100	<10	<10
1,1,1-Trichloroethane	<100	<100	<10	<10
1,1,2-Trichloethane	<100	<100	<10	<10
TOTAL VO's:	560	890	ND	ND

NOTES:

Only hits are reported
MDL-Method Detection Limit
ND - Non Detect
NA - Not Applicable
J - Indicates detected below MDL estimated value
U - Indicates compound not detected
D - Indicates values were taken from dilution run
E - Indicates compound results exceeds calibration range, estimated value

SUMMARY REPORT
Client: URS Corporation
Project: Franklin Cleaners
Lab Case No.: R3496

Sample ID	FC-INF-1-03-STARTUP-DL	FC-INF-2-03-STARTUP-DL	FC-EFF-03-STARTUP	FC-TB
Lab Sample ID	R3496-01DL	R3496-02DL	R3496-03	R3489-04
Sampling Date	07/24/2003	07/24/2003	07/24/2003	07/24/2003
Dilution Factor	10.0	10.0	1.0	1.0
Volatiles by OLM04.2 (µg/L)				
Methylene Chloride	<100	<100	<10	3J
Trichloroethene	<100	<100	<10	<10
Tetrachloroethene	650	950	<10	<10
1,1-Dichloroehtene	<100	<100	<10	<10
1,1,1-Trichloroethane	<100	<100	<10	<10
1,1,2-Trichloethane	<100	<100	<10	<10
2-Pentene,2-methyl	74			
TOTAL VO's:	650	950	ND	3

NOTES:

Only hits are reported
MDL-Method Detection Limit
ND - Non Detect
NA - Not Applicable
J - Indicates detected below MDL estimated value
U - Indicates compound not detected
D - Indicates values were taken from dilution run
E - Indicates compound results exceeds calibration range, estimated value

00001

$650 \frac{\mu g}{L} \times \frac{1 g}{1\times10^{9} \mu g} \times \frac{1 lb}{454 g} \times \frac{35.95 gal}{min} \times \frac{60 min}{1 hr} \times \frac{3.7854 L}{1 gal} = \frac{1.169\times10^{-5}}{1.1745\times10^{-5}} lb/hr$

$950 \times \frac{1}{1\times10^{9}} \times \frac{1}{454} \times 6.85 \times \frac{60}{1} \times 3.7854 \frac{\ell}{gal} = \frac{3.255\times10^{-6} lb/hr}{2.015\times10^{-5} lb/hr}$

StartUp SUMMARY REPORT

Client: NYSDEC

Project: Franklin Cleaners

	22-Jul-03		23-Jul-03		24-Jul-03	
	EW-1	EW-2	EW-1	EW-2	EW-1	EW-2
Extraction Rate	36.12 gpm	5.76	36.58	5.725	35.95	6.85
Air Stripper liquid discharge rate	14680		23960		31420	
Air Stripper Air Flow Rate	690		684		681.25	

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.: R3489

CHEMTECH QUOTE NO.:

Jul-25-2003 5:25PM

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: URS CORP

ADDRESS: 201 WillowBrook BLVD

CITY: WAYNE STATE: N.J ZIP 07474

ATTENTION: KEN SULLIVAN

PHONE: 973-812-6869 FAX: 973 785-1956

PROJECT INFORMATION

PROJECT NAME: FRANKLIN CLEANERS

PROJECT NO.: 807260 LOCATION: GWTP

PROJECT MANAGER: KEN SULLIVAN

E-MAIL

PHONE: 973 812 6869 FAX: 973-785-1956

BILLING INFORMATION

BILL TO: PO #:

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 973-785-1956 ~~DAYS~~

HARD COPY: 631 845-5618 ~~DAYS~~ 24 HRS

EDD: DAYS*

* TO BE APPROVED BY CHEMTECH

** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP

☐ RESULTS + QC ☐ NYS ASP "B"

☐ NJ REDUCED ☐ NYS ASP "A"

☐ NJ CLP ☐ EDD

☐ EDD FORMAT:

ANALYSIS

VOA

PRESERVATIVES

COMMENTS

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (HCl)	2	3	4	5	6	7	8	9
1	FC-INF-1-02-START UP	W			7-23-03	1010	3	3								
2	FC-INF-2-02-START UP	W			7-23-03	1015	3	3								
3	FC-EFF-02-START UP	W			7-23-03	1035	3	3								
4	TRIP BLANK	W			7-23-03	1545	1									
5	TRIP BLANK	W			7-23-03	11:00	1									
6																
7																
8																

No. 6919

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 11:30 7-23-03	RECEIVED BY: 1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. Fed Ex	DATE/TIME: 7/24/03 10:00	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler

MeOH extractions requires an additional 4oz. jar for percent solid.

Comments: 24 hr TURNAROUND | 1 TRIP BLANK WAS FOR YESTERDAY'S COOLER.

Page of

Shipped Via: Client ☐ Hand Delivered ☒ Overnight
Chemtech ☐ Picked Up ☐ Overnight

Shipment Complete ☐ Yes ☐ No

P. 3/11

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35302

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.: R3449
CHEMTECH QUOTE NO.:

Jul-25-2003 5:19PM

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: URS CORP
ADDRESS: 201 WILLOW BROOK BLVD
CITY: WAYNE STATE: NJ ZIP:
ATTENTION: KEN SULLIVAN
PHONE: 973 812 6869 FAX: 973-785-1956

PROJECT INFORMATION

PROJECT NAME: FRANKLIN CLEANERS
PROJECT NO.: 807260 LOCATION: GWTP
PROJECT MANAGER: KEN SULLIVAN
E-MAIL:
PHONE: 973 812 6869 FAX: 973 785 1956

BILLING INFORMATION

BILL TO: PO #:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 973 631-9615-5618
HARD COPY: 973-812 785 1956
EDD:
* TO BE APPROVED BY CHEMTECH
** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ NYS ASP "B"
☐ NJ REDUCED ☐ NYS ASP "A"
☐ NJ CLP ☐ EDD
☐ EDD FORMAT:

ANALYSIS

1 VOA 2 METALS - MANG. TRAN. PB 3 TEDLAR 4 TEDLAR 5 TEDLAR 6 TEDLAR 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 HCl	2 B	3	4	5	6	7	8	9	COMMENTS
1.	FC-INF-1-01-START UP	W			7-22-03	1500	4	3	1								
2.	FC-INF-2-01-START UP	W			7-22-03	1505	4	3	1								
3.	FC-EFF-01-START UP	W			7-22-03	1510	4	3	1								
4.	FC-GAC-INF-IN-01-01	V			7-22-03	1515				1							
5.	FC-GAC-INF-IN-01-02	V			7-22-03	1515					1						
6.	FC-GAC-EFF-OUT-01-01	V			7-22-03	1500						1					
7.	FC-GAC-EFF-OUT-01-02	V			7-22-03	1500							1				
8.	TRIP BLANK	W			7-22-03	1515	1										MISSING

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
	7-22-03	1.
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. FEDEX	DATE/TIME: 7/23/03 10:30	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler ____
MeOH extractions requires an additional 4oz. jar for percent solid.
Comments: PLEASE COLLECT PH FOR ALL METAL SAMPLES.

Page ____ of ____

Shipped Via: Client ☐ Hand Delivered ☐ Overnight
Chemtech ☐ Picked Up ☐ Overnight

Shipment Complete ☐ Yes ☐ No

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35303

No. 6917 P. 3/13

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH JOB NO.: A3496

CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: URS CORP

ADDRESS: 201 WILLOW BROOK BLVD

CITY: WAYNE N.J STATE: ZIP: 07474

ATTENTION: KEN SULLIVAN

PHONE: 973 812 6969 FAX: 973 785 1956

PROJECT INFORMATION

PROJECT NAME: FRANKLIN CLEANERS

PROJECT NO. 807260 LOCATION: GWTP

PROJECT MANAGER: KEN SULLIVAN

E-MAIL:

PHONE: 973-812-6969 FAX: 973-785-1956

BILLING INFORMATION

BILL TO: PO #:

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 973 785 1956 DAYS: 24

HARD COPY: 631 945 5818 DAYS: X

EDD DAYS: HR

* TO BE APPROVED BY CHEMTECH

** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ NJ REDUCED
- ☐ NJ CLP
- ☐ EDD FORMAT: _____
- ☐ USEPA CLP
- ☐ NYS ASP "B"
- ☐ NYS ASP "A"
- ☐ EDD

ANALYSIS

1 VOA 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES HCL 1	2	3	4	5	6	7	8	9	COMMENTS
1 1	FC-INF-1-03-START UP	W			7-24-03	10:30	3	3									
2. 2	FC-INF-2-03-START UP	W			7-24-03	10:35	3	3									
3. 3	FC-EFF-03-START UP	W			7-24-03	10:40	3	3									
4. 4	TRIP BLANK	W			7-24-03	10:45	1										
5.																	
6.																	
7.																	
8.																	

PRESERVATIVES — COMMENTS

← Specify Preservatives
A - HCl B - HNO_3
C - H_2SO_4 D - NaOH
E - ICE F - Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1700	RECEIVED BY 1.
RELINQUISHED BY 2.	DATE/TIME:	RECEIVED BY 2.
RELINQUISHED BY 3. FEDEX	DATE/TIME: 9AM 7/25/03	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler _____

MeOH extractions requires an additional 4oz. jar for percent solid.

Comments: 24HR TURNAROUND

Page _____ of _____

Shipped Via: Client ☐ Hand Delivered ☐ Overnight Chemtech ☐ Picked Up ☐ Overnight

Shipment Complete ☐ Yes ☐ No

Ver. 8/2002

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35301

07/28/2003 11:13 FAX 973 785 1956 URS WAYNE, NJ
Jul. 28. 2003 4:58PM No. 6944 P. 2/14

FRANKLIN CLEANERS
SYSTEM DATA SHEET
DAY 1 START-UP TEST
DATE: 22 JULY 03
TUESDAY

TIME	1144	1254	1405	1545	1621	TOTALS		
Extraction Wells								
EW1-1	ON	ON	ON	ON				
level								
psi		10						
flow	36.9	35.5	36	37.5	34.7	11482		
EW-2	ON	ON	ON	ON				
level								
psi		6						
flow	5.4	6.4	5.4	5.6	6.0	1796		
AirStripper								
Sump level	6 3/4"	7	6 3/4	6 3/4	7			
fresh air ~~psi~~ IN/H2O	1	1	1	1	1			
blower suction ("H2O)	24.5	25	25	25	25			
blower discharge (psi)	24	25	—	—	—			
~~Temperature~~	—	—	—	—	—			
Vapor Phase Carbon								
Lead/Lag unit	2/1	2/1	2/1	2/1	2/1			
lead psi IN/OUT	24/21	25/21	25/21	25/21	25/21			
lag psi IN/OUT	10/4	11/4	11/4	11/4	11/4			
Exhaust SCFM	690	690	690	690	690			
temperature	82°	93°	82	82	82			
Wet Well								
Pump 1 (on/off)	AUTO lead	A/LAG.	A/LAG.	A/LAG	LAG			
Pump 2 (on/off)	AUTO lead	A/LEAD.	A/LEAD.	A/LEAD.	LEAD.			
Level	21"	—	—	20"	FULL			

FRANKLIN CLEANERS
SYSTEM DATA SHEET

DATE:_____

TIME	1144	1254	1410	1545	1630			
Valve Vault								
Pump 1 (psi)	—	—	—	—				
Pump 2 (psi)	7.5	7.5	—	8.5				
Meter Vault								
~~Pressure~~								
Flow (gpm/total)	2900	6032	10094	14680				
Jet Pump								
Pressure	—	—	—	—				
Tank Pressure	—	—	—	—				
Storage tank Level	—	—	—	—				
Containment Island								
Status	STANDBY	SD.	SD	SD				

Comments:

STOP/MAN SHUTDOWN @ 1625 wet well pumps @ 1610 TO TEST SYSTEM SHUTDOWN.

Pump wet well down pumps off @.

1215 EW-2 WATER LEVEL 58.65 TOC → H_2O.
1230 EW-1 " " 20.65 " "

c:/./System Data Sheet.xls

FRANKLIN CLEANERS
SYSTEM DATA SHEET

DATE: WED 23 JULY 03.

TIME	0715	0830	0900	0930	1002	—	1040.	
Valve Vault								
Pump 1 (psi)	—	ON 8.5	OFF	OFF	OP 8.5		OFF —	
Pump 2 (psi)	—	—	OFF	ON 8.5	OFF 8.5		~~OFF~~ 8.5	
Meter Vault								
~~Pressure~~								
Flow (gpm/total)	17053		18420.	20000	22103		23760	
Jet Pump			—					
~~Pressure~~	—		—	—	—		—	
Tank Pressure	—		—	—	—		—	
Storage tank Level	—		—	—	—		—	
Containment Island								
Status	—		—	SB	SB		SB	

Comments:

0821 START PLANT. EW-2 14 ± GPM

0830 EW-1 FLOW oscilating 32.8 – 37.8 ~~11820~~ 11820
EW-2 " " 6.1 – 7.0 1890

0832 PLANT SHUTDOWN HIGH BLOWER PRESSURE.
0936 RESTART PLANT.

1045 STOP PLANT FLOW – closed. Blower system BF valve

FINAL EFFLUENT DIGITAL 24267.
METER 99963 245

FRANKLIN CLEANERS
SYSTEM DATA SHEET
DAY 2 START-UP TEST
DATE: WED 23 JULY 03

TIME	715	0830	0900	0930	1002	1035	1040	
Extraction Wells								
EW1-1								
level	10.97			—	—	20.65		
psi	—			—	—	10		
flow	—	36.6 ↕	36.4/12440	36.8	35.4		37.7 / 16390	
EW-2								
level	11.32		62/20.62	—	—	60.2		
psi	—			—	—	16.5		
flow	—			6.5	5.2		5.0 / 2677.	
AirStripper								
Sump level	—	7	7	7	7		7	
fresh air psi	—		1	1	1		1	
blower suction ("H2O)	—	25	24	24	24		24.5	
blower discharge (psi)	—	1	1	23	24		24	
~~Temperature °F~~	—		~~81~~	—	—			
Vapor Phase Carbon	—							
Lead/Lag unit	—	2/1	2/1	2/1	2/1		2/1	
lead psi IN/OUT	—	25/21	24/20	23/20	24/20		24/20	
lag psi IN/OUT	—	11/5	11/4	10/4	10/5		10/5	
Exhaust SCFM	—	690	685	695	670		690	
temperature °F	-		81°	81°	81			
Wet Well								
Pump 1 (on/off)	—	ON	OFF/AUTO	AUTO/OFF	AUTO/ON		AUTO OFF	
Pump 2 (on/off)	—		OFF/AUTO	AUTO/ON	AUTO/OFF		AUTO ~~OFF~~	
Level	—		—					

FRANKLIN CLEANERS
SYSTEM DATA SHEET
DAY 3 START-UP TEST
DATE: THURSDAY, 24 JULY 03

TIME	0745	0810	0830	0900	1000	10.07		
Extraction Wells								
EW1-1								
level	10.94							
psi	~							
flow	~	32 - 38	36.3	34.9	36.6	0		
EW-2		(17093)	(17969)	(19407)	(20900)	(21257)		
level	11.30							
psi	~							
flow	~	7.2 - 8.4	7.7	6.1	5.6	0		
		(2858)	(3050)	(3346)	(3594)	(3646)		
AirStripper								
Sump level	~	7"	7"	7	7			
fresh air psi	~	1	1	1	1			
blower suction ("H2O)	~	24.5	24.5	24.5	24.5			
blower discharge (psi)	~	25	25	25	25			
~~Temperature~~	~							
Vapor Phase Carbon								
Lead/Lag unit	~	2/1	2/1	2/1	2/1			
lead psi IN/OUT	~	25/20	25/20	25/20	25/20			
lag psi IN/OUT	~	10/4	10/4	10/4	10/5			
Exhaust SCFM	~	685	680	680	680			
temperature	~	79°	80°	81	82			
Wet Well								
Pump 1 (on/off)	~	AUTO OFF	AUTO / ON	AUTO / OFF	AUTO / ON			
Pump 2 (on/off)	~	AUTO OFF	AUTO / OFF	AUTO / ON	AUTO / OFF			
Level	~	21"	19"					

FRANKLIN CLEANERS
SYSTEM DATA SHEET
DAY 3 START-UP TEST
DATE: ~~THURSDAY~~, 24 JULY 03

TIME	0745	0810	0830	0900	1000	1020		
Valve Vault								
Pump 1 (psi)	—	OFF	ON / 9	OFF	ON / 8	OFF		
Pump 2 (psi)	—	OFF	OFF	ON / 8	OFF	ON / 8		
Meter Vault								
~~Pressure~~								
Flow (gpm/total)	—	25029	26390	28700	30560	31420		
Jet Pump								
~~Pressure~~								
Tank Pressure	—	—	—					
Storage tank Level	—	—	—					
Containment Island								
Status	—	SB.	SB	SB	SB.	OFF		

Comments:

SYSTEMS ENERGIZED @ 0755
PLANT START-UP @ 0800

PLANT SHUTDOWN @ 1010

FLYGT pumps off @ 1014

1014 EFFLUENT METER 99970400

AOC

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Dvirka and Bartilucci
CONSULTING ENGINEERS
330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 Fax: 516-364-9045

D&B FAX NO: (516) 364-9045

Date: July 15, 2003

COMPANY NAME: NYSDEC

ATTENTION: Mr. Jeffery Trad

FAX NO: (518) 402-9819

FROM: Frank DeVita

SUBJECT: Franklin Cleaners Site JOB#:

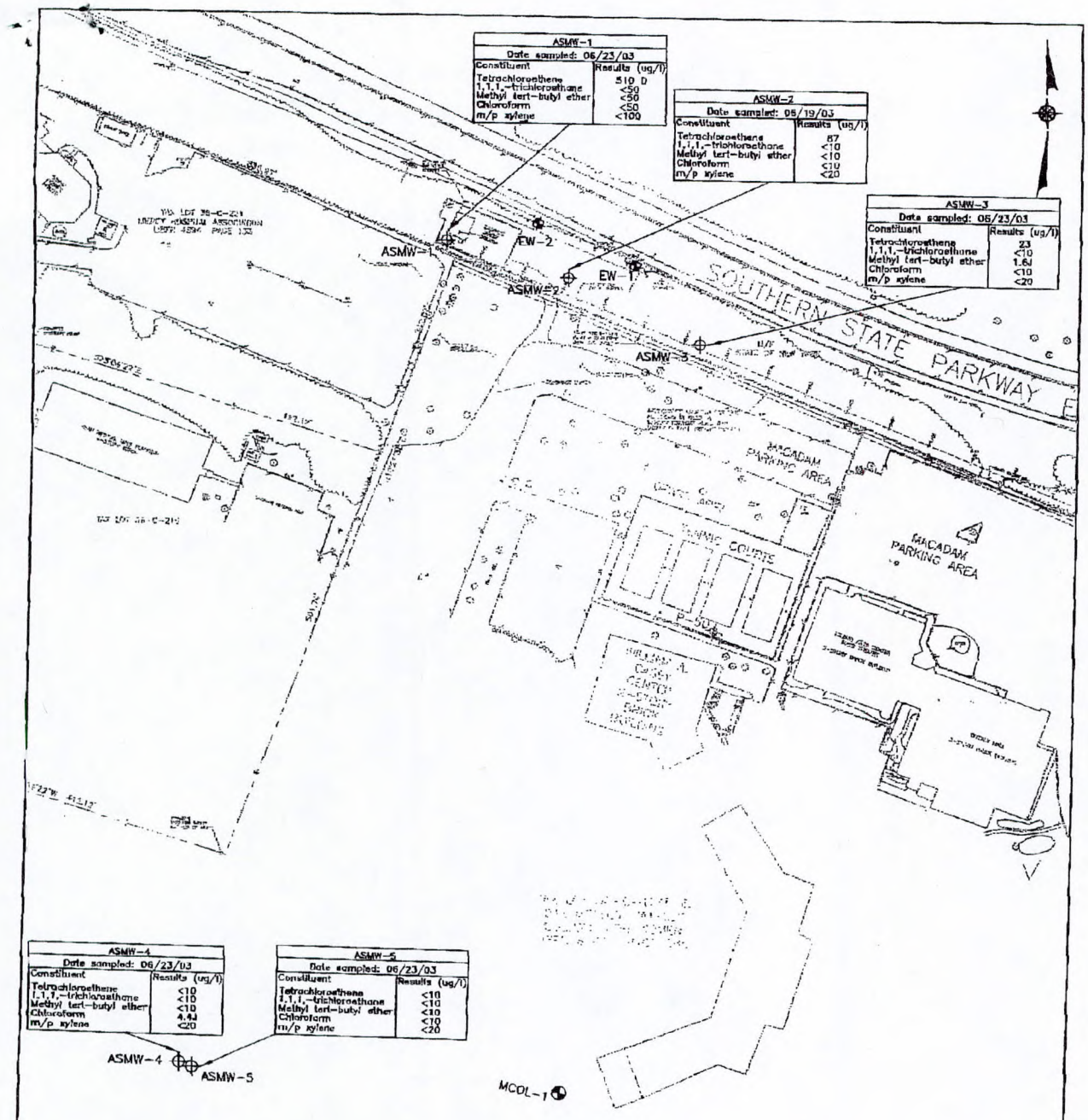
NO. OF PAGES 2
(including cover sheet)

RECEIVED
JUL 15 2003

MESSAGE: Attached please find a figure illustrating the baseline groundwater sampling results for the above referenced site. Should you have any questions please feel free to contact me at (516) 364-9890.

THANK YOU: Frank DeVita
Frank DeVita

A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.



LEGEND:

- GROUNDWATER MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- IRRIGATION WELL
- SUPPLY WELL
- FORMER GROUNDWATER PROBE

GROUNDWATER MONITORING WELLS		
WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH
ASMW-1	90'-0"	10'-0"
ASMW-2	88'-0"	10'-0"
ASMW-3	90'-0"	10'-0"
ASMW-4	110'-0"	10'-0"
ASMW-5	133'-0"	10'-0"

NOTES:

1. GROUNDWATER SAMPLES COLLECTED BY URS CORPORATION ON 6/19/03 AND 6/23/03.
2. GROUNDWATER SAMPLES ANALYZED UNDER USEPA METHOD OLM 04.2.
3. GROUNDWATER SAMPLE RESULTS ARE PRELIMINARY.
4. ONLY HITS ARE REPORTED. ALL OTHERS ARE NOT DETECTED ABOVE THE MDL.
5. "J" DENOTES AN ESTIMATED RESULT.
6. "D" DENOTES A DILUTED SAMPLE.

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. CRUIKSHEN ASSOCIATES, P.C.

FRANKLIN CLEANERS SITE
HEMPSTEAD, NEW YORK

BASELINE GROUNDWATER MONITORING RESULTS

FIGURE 1

edoc

Case Narrative

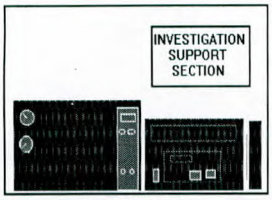
Site Name: Franklin Cleaners Date received: 06/30/03

For sample delivery group(s): 181-01

The calibration verification that these samples were run under had two analytes fall out of the 30% acceptable deviation range stated in this method. Vinyl Chloride missed by 7.7% and 1,1 Dichloroethene missed by 9.2%. Neither compound was found in the samples run under this calibration verification and therefore this does not impact the results.

All other QA/QC associated with these samples were within acceptable method criteria.

Should be noted that Acetone is present as a lab contaminant at approximately 10ug/L. The Trip Blank result should be qualified with a 'B'.



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **TRIP BLANK**

Site Name: FRANKLIN CLEANERS
Site Code: 130050 Date Collected: 6/28/03 SDG No.: 181-01

Matrix: (soil/water) WATER Date Received: 06/30/03 Lab Sample ID: 103-181-02
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 03C0567.D
GC Column: RTX624 ID: 0.25 (mm) Date Analyzed: 06/30/03
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	6	J
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

TRIP BLANK

Site Name: FRANKLIN CLEANERS

Site Code: 130050 SDG No.: 181-01

Matrix: (soil/water) WATER Lab Sample ID: 103-181-02

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 03C0567.D

Level: (low/med) LOW Date Received: 06/30/03

% Moisture: not dec. _____ Date Analyzed: 06/30/03

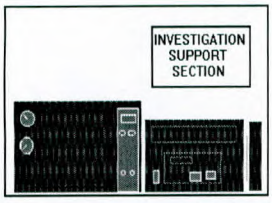
GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **EW-2**

Site Name: FRANKLIN CLEANERS
Site Code: 130050 Date Collected: 6/28/03 SDG No.: 181-01

Matrix: (soil/water) WATER Date Received: 06/30/03 Lab Sample ID: 103-181-01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 03C0568.D
GC Column: RTX624 ID: 0.25 (mm) Date Analyzed: 06/30/03
% Moisture: decanted:(Y/N) N Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
75-15-0	Carbon Disulfide	10	U
67-64-1	Acetone	10	U
75-09-2	Methylene Chloride	10	U
1634-04-4	methyl-tert butyl ether	10	U
540-59-0	trans 1,2-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
108-05-4	Vinyl acetate	10	U
540-59-0	cis 1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	1	J
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	1	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropen	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	740	E
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	m,p-Xylenes	10	U
1330-20-7	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
95-49-8	2-Chlorotoluene	10	U
106-43-4	4-Chlorotoluene	10	U
541-73-1	1,3-Dichlorobenzene	10	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
87-61-6	1,2,3-Trichlorobenzene	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

EW-2

Site Name: FRANKLIN CLEANERS

Site Code: 130050 SDG No.: 181-01

Matrix: (soil/water) WATER Lab Sample ID: 103-181-01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 03C0568.D

Level: (low/med) LOW Date Received: 06/30/03

% Moisture: not dec. _____ Date Analyzed: 06/30/03

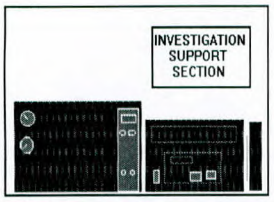
GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625
EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **EW-2**

Site Name: FRANKLIN CLEANERS
Site Code: 130050 Date Collected: 6/28/03 SDG No.: 181-01

Matrix: (soil/water) WATER Date Received: 06/30/03 Lab Sample ID: 103-181-01
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 03C0570.D
GC Column: RTX624 ID: 0.25 (mm) Date Analyzed: 06/30/03
% Moisture: decanted:(Y/N) N Dilution Factor: 10.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U
75-01-4	Vinyl Chloride	100	U
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U
75-15-0	Carbon Disulfide	100	U
67-64-1	Acetone	100	U
75-09-2	Methylene Chloride	100	U
1634-04-4	methyl-tert butyl ether	100	U
540-59-0	trans 1,2-Dichloroethene	100	U
75-34-4	1,1-Dichloroethane	100	U
108-05-4	Vinyl acetate	100	U
540-59-0	cis 1,2-Dichloroethene	100	U
78-93-3	2-Butanone	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
56-23-5	Carbon tetrachloride	100	U
71-43-2	Benzene	100	U
107-06-2	1,2-Dichloroethane	100	U
79-01-6	Trichloroethene	100	U
78-87-5	1,2-Dichloropropane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	100	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropen	100	U
79-00-5	1,1,2-Trichloroethane	100	U
127-18-4	Tetrachloroethene	1500	D
591-78-6	2-Hexanone	100	U
124-48-1	Dibromochloromethane	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
1330-20-7	m,p-Xylenes	100	U
1330-20-7	o-Xylene	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
95-49-8	2-Chlorotoluene	100	U
106-43-4	4-Chlorotoluene	100	U
541-73-1	1,3-Dichlorobenzene	100	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
120-82-1	1,2,4-Trichlorobenzene	100	U
87-61-6	1,2,3-Trichlorobenzene	100	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

EW-2

Site Name: FRANKLIN CLEANERS

Site Code: 130050 SDG No.: 181-01

Matrix: (soil/water) WATER Lab Sample ID: 103-181-01

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: 03C0570.D

Level: (low/med) LOW Date Received: 06/30/03

% Moisture: not dec. _____ Date Analyzed: 06/30/03

GC Column: RTX624 ID: 0.25 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q

edr

From: Fred Woodward
To: Trad, Jeffery
Date: 6/30/03 2:30PM
Subject: Fwd: Franklin Preliminary Results

>>> Michael Seaman 06/30/03 02:25PM >>>
Fred,
So far I only have the undiluted results.
103-181-02 (ew02)
Chloroform 1.3 ug/L
1,1,2 Trichlrorethane 12.1 ug/L
Tetrachloroethene 744ug/L
I should have diluted results before the days end.
Mike

From: Fred Woodward
To: Trad, Jeffery
Date: 7/1/03 7:34AM
Subject: Fwd: Franlklin Preliminary Results dilution

>>> Michael Seaman 06/30/03 04:16PM >>>
Fred,
I diluted the sample 103-181-01 (EW-2) and got 1550ug/L tetrachhloroethene. I might have given you the wrong lab ID for this sample in the previous communication.
Mike

Edbe

FAX TRANSMITTAL

URS
201 Willowbrook Boulevard
mailing address:
P.O. Box 290
Wayne, New Jersey 07470-0290
Telephone: (973) 785-0700
Fax: (973) 785-0023

DATE: 5/29/03

PAGE 1 OF: 7

TO:	**FRANK DEVITA**	FROM:	**Joel Siegel**
FIRM:	**D&B**	SUBJECT:	**Sieve analysis**
FAX NO:	**516.364.9045**	CC:	

REMARKS: ☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please Comment

MEMO:

FRANK,

This is all that came from Delta....

Take a look and see what you think.....

Looking at it now, I believe it is all there.... But the sizes appear pretty fine...

Speak later,

Joel Siegel

Post-it® Fax Note 7671	Date 5/29/03	# of pages ▶ 7
To J. Todd	From F. DeVita	
Co./Dept. NYSDEC	Co. D+B	
Phone # 518 402 9814	Phone # 516 364-9890	
Fax # 518 402 9819	Fax # 516 364 9045	

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DELTA WELL & PUMP CO, INC
WATER AND ENVIRONMENTAL DRILLING
97 Union Avenue, P O Box 1309, Ronkonkoma, NY 11779-0760
(516) 981-2255 FAX (516) 981-2369

NEW AREA CODE 631

FAX TRANSMITTAL SHEET

DATE 05-28-03

TO KEN SULLIVAN @ URS

FROM CHRIS OKON

NUMBER OF PAGES INCLUDING THIS ONE 5

MESSAGE RE: FRANKLIN CLEANERS

KEN - FOLLOWING IS SIEVE ANALYSIS WITH SCREEN SUBMITTAL DATA FOR EW-2.

IT WILL TAKE ME 7 TO 10 DAYS TO RECEIVE THE SCREEN AFTER I GET YOUR APPROVAL AND ORDER IT.

LET ME KNOW.

CHRIS OKON

516-364-9045
Frank

SEND TO FAX NUMBER 1-973-785-1956

123(961009)
GA005.FRM

Johnson screens™

TO: Chris Okon DATE: 5/28/03 PG 1 of 5

COMPANY: Delta Well + Pump

FAX: 631-981-2369

FROM: AL SMITH
WATER WELL TECHNICAL SERVICE

TEL: 1 800 833 9473 - ext 160 or 1 651 638 3160
FAX: 1 800 328 9891 or 1 651 638 3171
EMAIL: smithaj@johnsonscreens.com

SUBJECT: Sieve Analysis & Screen Recommendation with Screen Submittal

5/28/2003

Johnson screens™
A Weatherford Company

WELL SCREEN SUBMITTAL DATA

CLIENT: Delta Well & Pump
PROJECT: Franklin Cleaners, 100' Depth Standard Construction

Material		304 Stainless		
Nom Size	6	PS	*150*	*mm*
Estimated Total Well Depth	99	ft	*30*	*meters*
Estimated Feet of Screen	15	ft	*5*	*meters*
Design Slot Size	0.020	in	*0.5*	*mm*
Approx. Outside Diameter	6.64	in	*169*	*mm*
Screen Barrel Inside Diameter	6.18	in	*157*	*mm*
Approx. Clear ID at Fittings	6.02	In	*153*	*mm*
Approx. Weight Per Ft	5	lbs	*2*	*kg*
Wire Width	0.060	in	*1.5*	*mm*
Wire Height	0.100	in	*2.5*	*mm*
Calc. Collapse Strength *	92	PSI	*6*	*kg/sq.cm*
Open Area	25.0%			
Intake Area	63	sq.in./ft	*1,325*	*sq.cm./meter*
Transmitting Capacity-at 0.1 ft/sec	19	gpm/ft	*4*	*lps/meter*
Support Rod Diam	0.089	in	*2.3*	*mm*
No Rods	40			
Cross Sectional Rod Area	0.34	sq.in.	*2.18*	*sq.cm.*
Design Yield Strength	30,000	PSI	*2,109*	*kg/sq.cm*
Calc.Tensile Strength *	8,600	lbs	*3,900*	*kg*
Max.Recomended Hang Wt. *	4,300	lbs	*2,000*	*kg*
Column Load **	7,900	lbs	*3,600*	*kg*

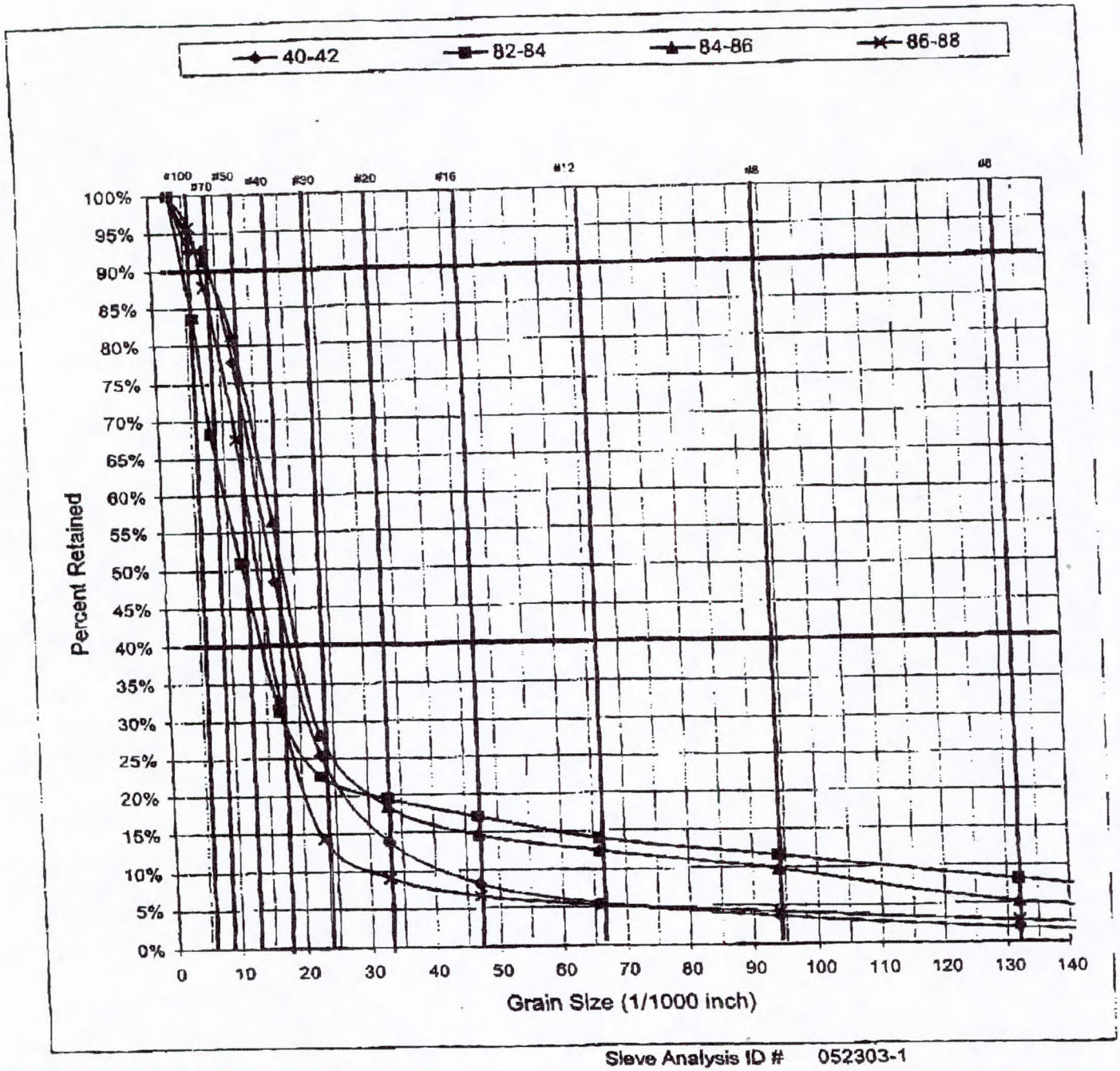
* A broad range of site conditions can impact the physical strength requirements for a successful screen installation. Consult Johnson Screens with questions reguarding the parameters presented above as they relate to your specific requirements.

** Vertical weight on screen that should not be exceeded without consulting manufacturer. Column load calculations should include some allowance for gravel pack contrubition.

Prepared by Al Smith-Water Well Technical Service
Subject to Johnson Screens
Standard Terms and Conditions

SAND ANALYSIS

Johnson Screens
651-636-3900



Sieve Analysis ID # 052303-1
Well:

Project: Franklin Cleaners
Engineer: URS

Contractor: Delta Well
Desired Yield - 50 GPM, SWL - 21'
No Test - 60-62', 80-82'

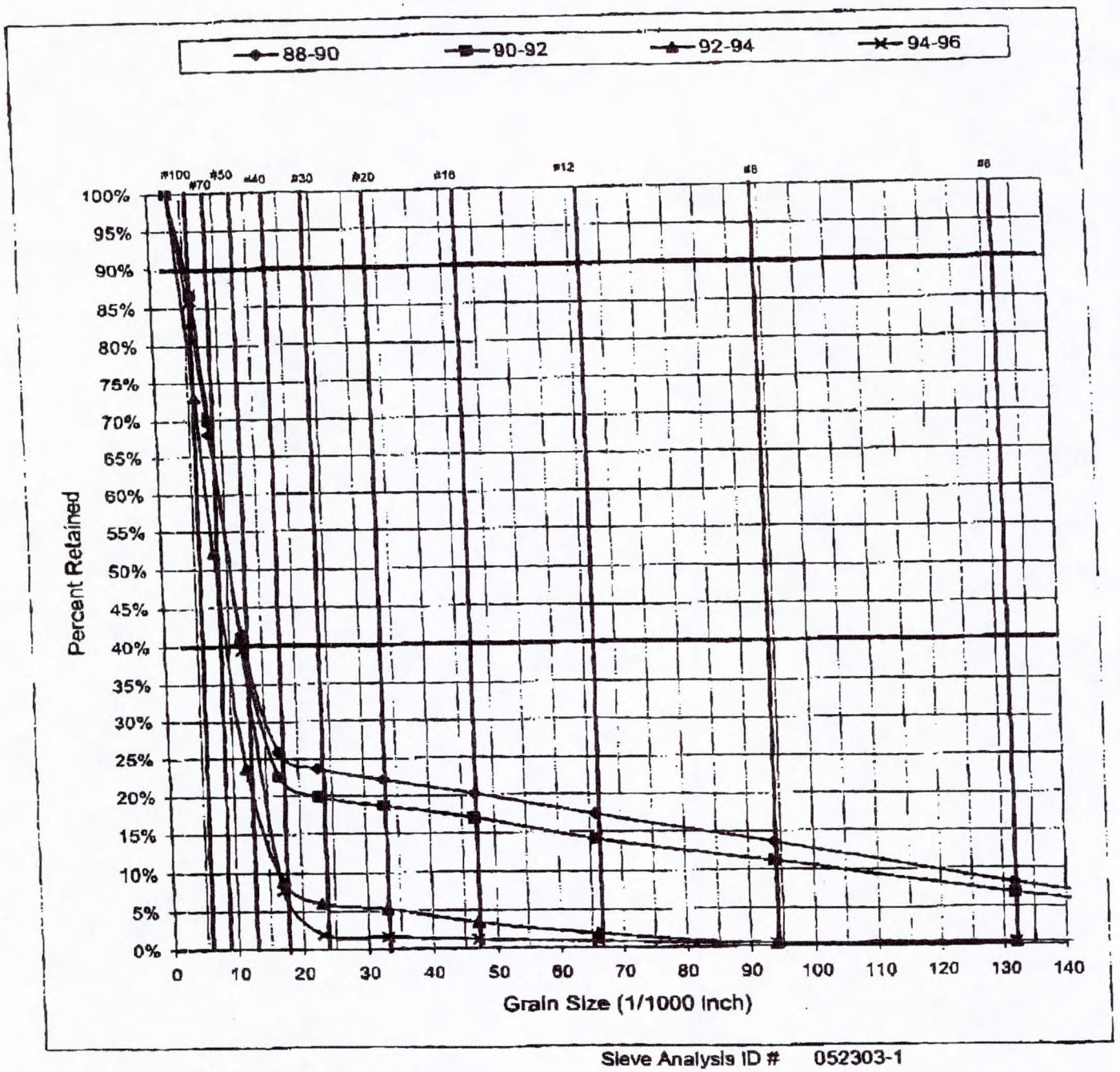
Proposed Screen Diameter: 6"
Recommended Slot Size: 20 Slot from 84' - 99'
Recommended Gravel Pack: #0 Morie

Prepared By: Al Smith
651-638-3160

Send samples to 1950 Old Hwy 8, New Brighton, MN 55112

SAND ANALYSIS

Johnson Screens
651-636-3900



Sieve Analysis ID # 052303-1

Project: Franklin Cleaners
Engineer: URS

Well:
Contractor: Delta Well

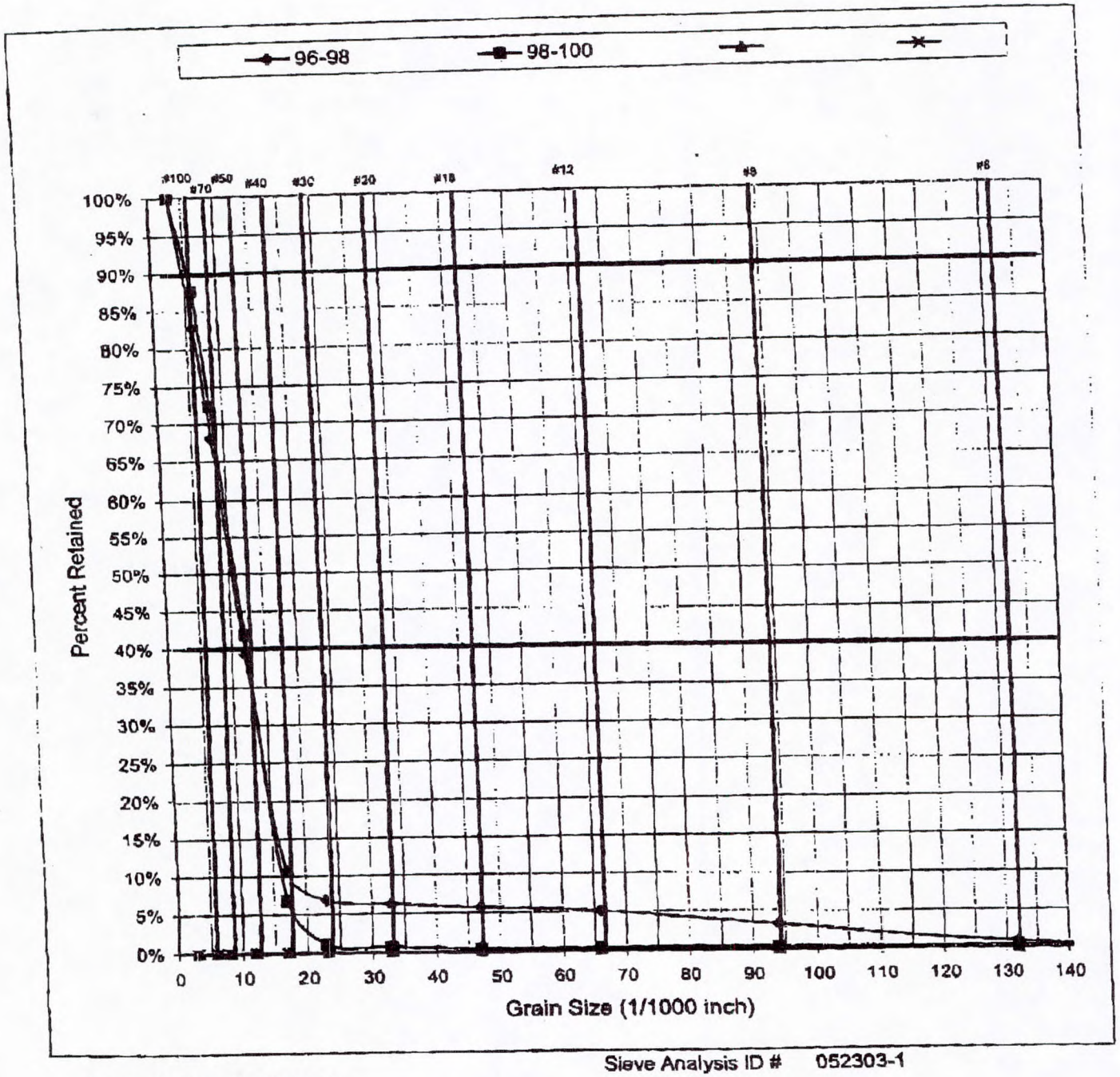
Proposed Screen Diameter: 6"
Recommended Slot Size: 20 Slot from 84' - 99'
Recommended Gravel Pack: #0 Morie

Prepared By: Al Smith
651-638-3160

Send samples to 1950 Old Hwy 8, New Brighton, MN 55112.

SAND ANALYSIS

Johnson Screens
651-636-3900



Sieve Analysis ID # 052303-1

Project: Franklin Cleaners
Engineer: URS

Well:
Contractor: Delta Well

Proposed Screen Diameter: 6"
Recommended Slot Size: 20 Slot From 84' - 99'
Recommended Gravel Pack: #0 Morie

Prepared By: Al Smith
651-638-3160

Send samples to 1950 Old Hwy 8, New Brighton, MN 55112

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Dvirka and Bartilucci
CONSULTING ENGINEERS
330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 • Fax: 516-364-9045

D&B FAX NO: (516) 364-9045 DATE: 5/29/03

COMPANY NAME: NYSDEC

ATTENTION: JEFF TROD

FAX NO.: 518 402-9819

FROM: AL TARNOWSKI

SUBJECT: FRANKLIN CLEANERS JOB#: 1

NO. OF PAGES: 6
(including cover sheet)

MESSAGE:

THANK YOU:

DVIRKA AND BARTILUCCI

DRILLING CONTRACTOR	DRILLING LOG	BORING NUMBER EW-2
Driller MIKE PELLEGRINO (DRB)	PROJECT NAME FRANKLIN CLEANERS	Sheet 1 of 3
Inspector AL IDROSZEWSKI	PROJECT # 1851	Boring Location BETWEEN EXITS 19 & 20 ON SOUTHERN STATE PARKWAY ON SOUTH SIDE
Rig Type HSA	Location/Address MOLLOY COLLEGE	
Drilling Method HSA		
Drive Hammer Weight 140		

GROUNDWATER OBSERVATIONS				Weather PARTLY CLOUDY	Plot Plan
Water Level	21			Date/Time Start 5/16/03 0900	
Time	:			Date/Time Finish 5/16/03 1600	
Date					
Casing Depth					

Sample Depth	Sample Number & Recovery	SPT Blow Counts	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
10-12	20"	8,18,21,32		10 ORANGE TO LIGHT BROWN POORLY SORTED FINE TO COARSE SAND; / TRACE FINE TO COARSE GRAVEL		
20-22	24"	7,8,8,9		20 ORANGE TO LIGHT BROWN MODERATELY SORTED MEDIUM TO COARS SAND; WET		
30-32	20"	6,5,6,6		30 ORANGE MODERATELY SORTED FINE TO MEDIUM SAND		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

OVERKA AND BARTELUCCI

DRILLING CONTRACTOR	DRILLING LOG	BORING NUMBER RW-2
Driller	PROJECT NAME FRANKLIN CLEANERS	Sheet 2 of 3
Inspector		Boring Location
Rig Type	PROJECT #	
Drilling Method	Location/Address	
Drive Hammer Weight		

GROUNDWATER OBSERVATIONS			
Water Level			
Time			
Date			
Casing Depth			

Weather

Date/Time Start

Date/Time Finish

Plot Plan

Sample Depth	Sample Number/Recovery	SPT Blows/Counts	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
40-42	20	10,11,12,14		40 ORANGE TO LIGHT BROWN MODERATELY SORTED FINE TO MEDIUM SAND, SOME COARSE SAND, TRACE FINE SAND		
50-52	22	11,12,15,12		50 ORANGE TO BROWN WELL SORTED FINE/ FINE TO MEDIUM SAND		
60-62	22	11,12,15,12		60 DARK GRAY STIFF CLAY		
70-72	24	8,9,21,14		70 0-22" SAME 22-24" ORANGE FINE/ FINE TO MEDIUM SAND DRILLER REPORTED "HARD" DRILLING @ 75'		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

DVIRKA AND BARTILUCCI

DRILLING CONTRACTOR
Driller
Inspector
Rig Type
Drilling Method
Drive Hammer Weight

DRILLING LOG
PROJECT NAME FRANKLIN CLEANERS
PROJECT #
Location/Address

BORING NUMBER EW-2
Sheet 3 of 3
Boring Location

GROUNDWATER OBSERVATIONS

Water Level			
Time			
Date			
Casing Depth			

Weather
Date/Time Start
Date/Time Finish

Plot Plan

Sample Depth	Sample Number / Recovery	SPT BLOW COUNTS	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
80-82	26"	6,7,9,9		80 ALTERNATING LAYERS OF DARK GRAY STIFF CLAY & GRAY POORLY SORTED MEDIUM TO COARSE SAND; F GRAVEL		
82-84	18"	7,8,10,11		82-84 LT GRAY WELL SORTED FINE/FINE-MEDIUM SAND; TRACE GRAVEL		
84-86	24"	12,14,15,20		84-86 LT. GRAY FINE/FINE TO MEDIUM SAND; TRACE FINE GRAVEL; MICA FLAKES		
86-88	24	7,8,9,9		86-88 0-6" SAME 6-24" LT GRAY MEDIUM/COARSE SAND		
88-90	18"	6,6,7,8		88-90 0-4" LAYERS OF LT GRAY CLAY, SILT + FINE SAND 4-18" GRAY WELL SORTED FINE SAND		
90-92	24	5,7,6,5		90-92 0-8" LT BROWN SAND, SILTY CLAY 8-24" LAYERS OF GRAY FINE SAND AND F/M SAND		
92-94	24	6,5,6,7		92-94 LAYERS OF ORANGE, GRAY AND BROWN FINE SAND, LITTLE SILT		
94-96	24"	5,5,7,7		94-96 0-6" SAME 6-24" ORANGE MODERATELY SORTED FINE-MEDIUM SAND		
96-98	14"	8,10,10,5		96-98 0-7" BN WELL SORTED FINE SAND 7-14" LT GRAY FINE-MEDIUM SAND		
98-100	24"	8,10,8,10		98-100 ALTERNATING LAYERS OF FINE-MEDIUM SILT + GRAY SAND AND CLAY		
100-102	14"	10,11,14,8		100-102 0-8 BROWN FINE TO MEDIUM SAND 8-14 VARVED GRAY + BLACK SILT F SAND		
102-104	24"	6,8,10,10		102-104 0-12" BROWN MODERATELY SORTED F/M SAND 12-24 GRAY " " " M SAND		
104-106	24	12,8,7,5		104-106 BROWN - ORANGE MODERATELY SORTED FINE-MEDIUM SAND		
106-108	24	12,10,11,12		104-108 LT. BROWN & LT GRAY MODERATELY SORTED MEDIUM SAND		
108-110	24	10,9,9,8		108-110 0-18" BROWN POORLY SORTED FINE SAND, SOME SILT 18" - LAYERS OF GRAY AND BLACK FINE SAND AND SILT		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

Dvirka and Bartlucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

SITE _____ JOB NO. _____ WELL NO. _____

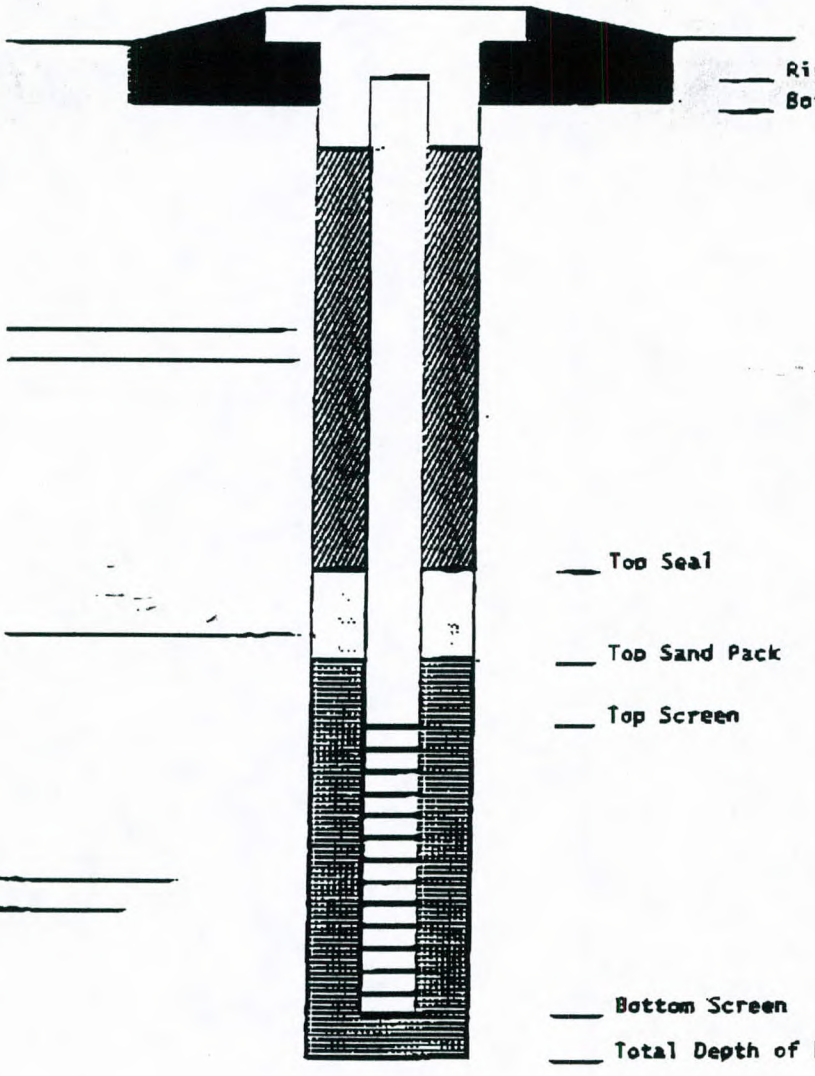
TOTAL DEPTH _____ SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) _____ DATE INSTALLED _____

RISER DIA ___ MATERIAL _____ LENGTH ___

SCREEN DIA ___ MATERIAL _____ LENGTH ___ SLOT SIZE _____

SCHEMATIC



Surface Seal Type _____

_____

_____

Grout Type _____

_____

Seal Type _____

Sand Pack Type _____

Size _____

Ground Surface

___ Riser Elevation

___ Bottom Surface Seal

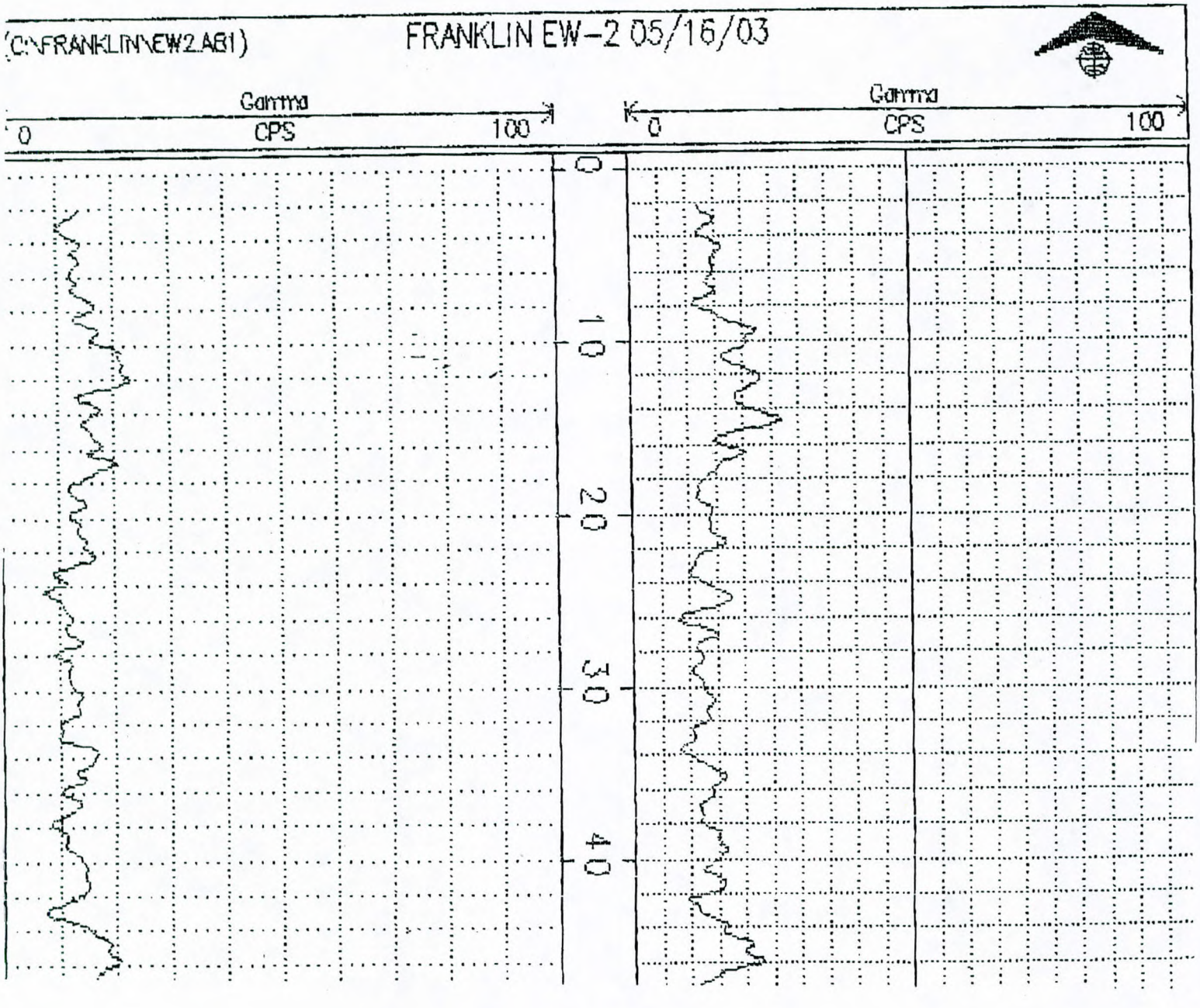
___ Top Seal

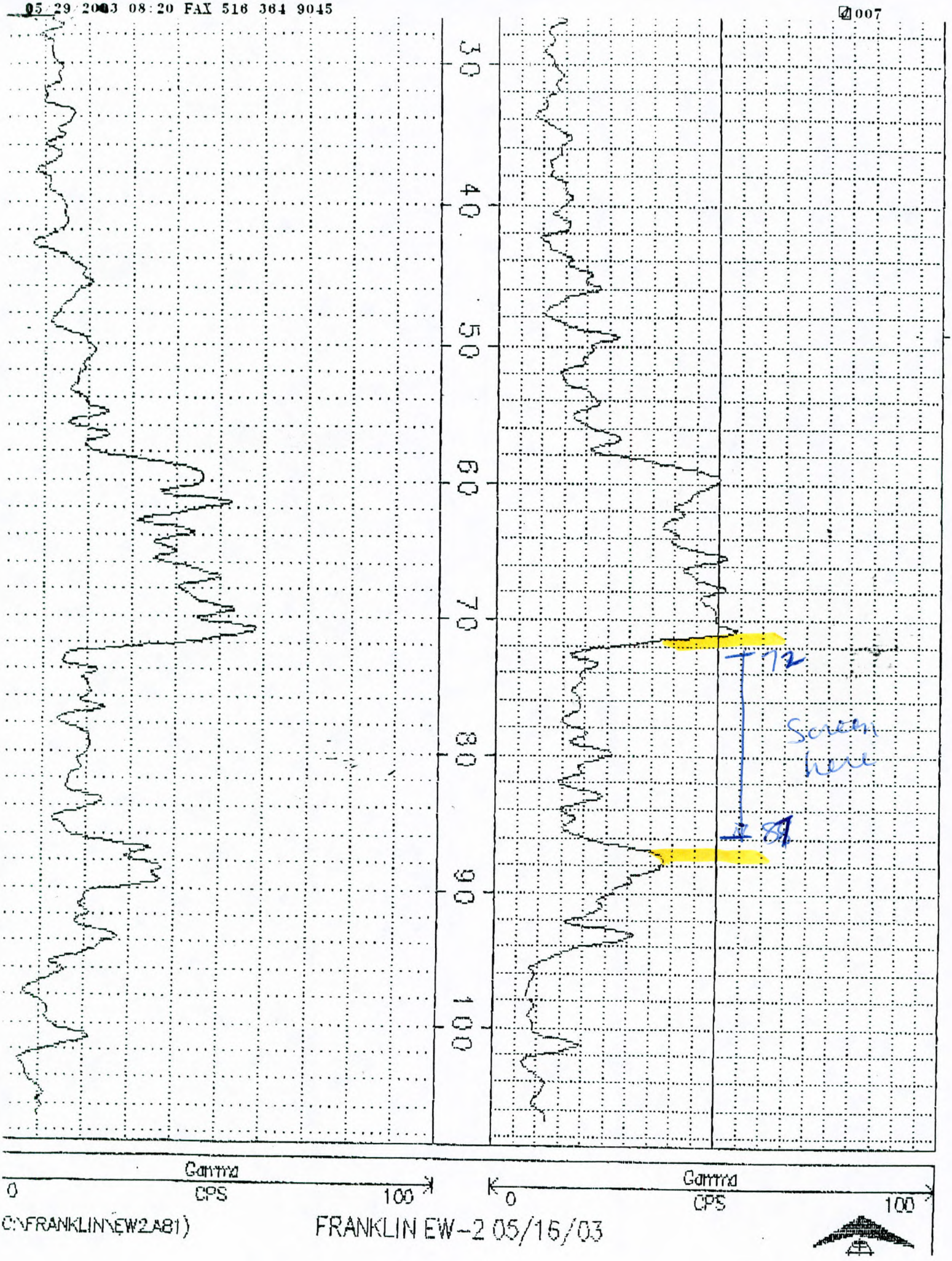
___ Top Sand Pack

___ Top Screen

___ Bottom Screen

___ Total Depth of Boring


(C:\FRANKLIN\EW2.AB1)
FRANKLIN EW-2 05/16/03
Gamma
0
CPS
100
Gamma
0
CPS
100
0
10
20
30
40


30
40
50
60
70
80
90
100
772
Screen here
784
Gamma
0
CPS
100
0
Gamma
CPS
100
C:\FRANKLIN\EW2A81)
FRANKLIN EW-2 05/15/03

02/10/2003 12:54 FAX 516 364 9045 001/002
FEB-11-2003 TUE 02:15 AM FROM: PAGE 1

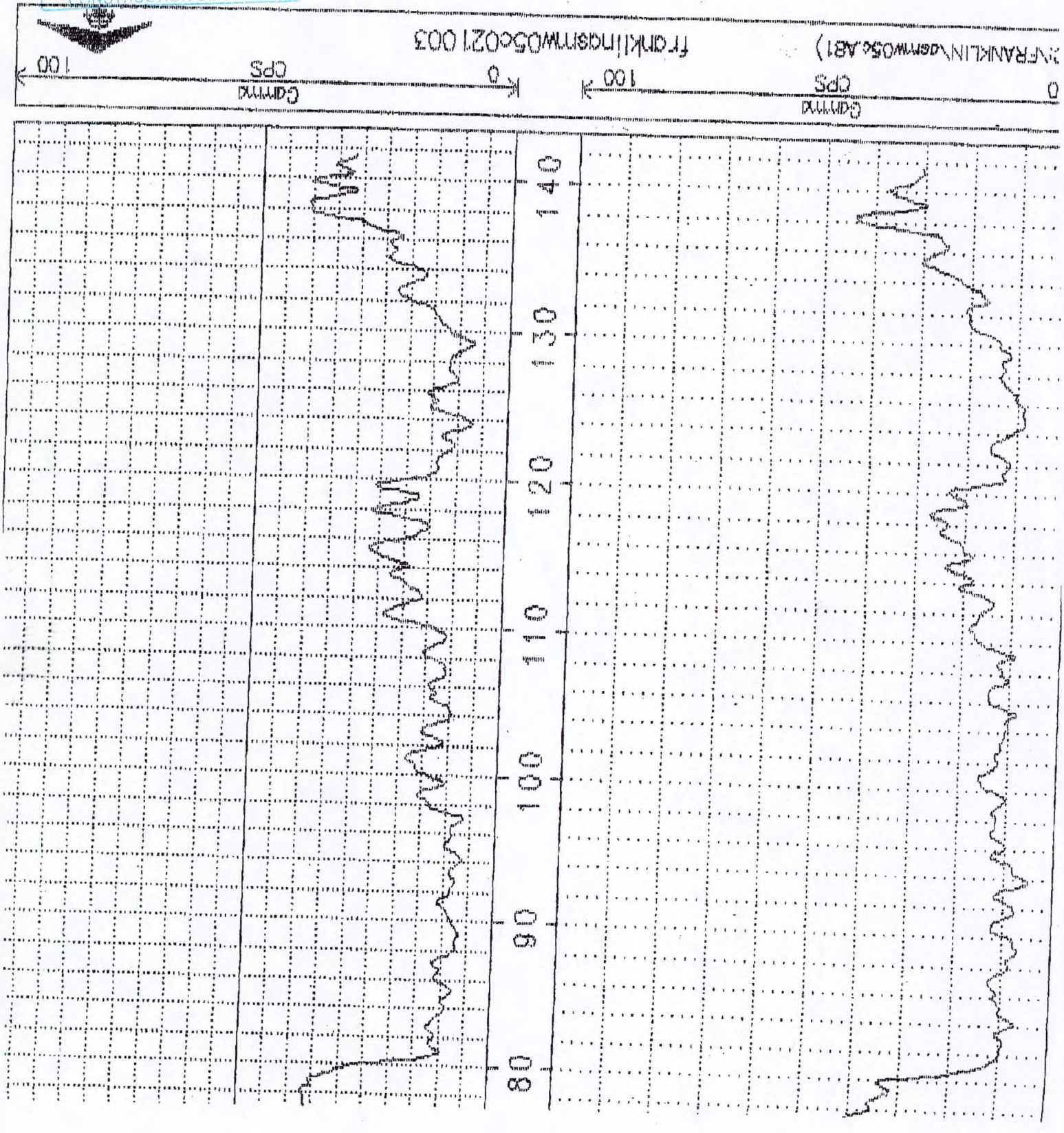
FAX: GAMMA

To: Ken Wenz
From: Chris Morris
2 pages

MW5

RECEIVED
FEB 10 2003
BUREAU OF CONSTRUCTION SERVICES

Post-it® Fax Note 7671	Date 2/10	# of pages ▶ 2
To Jeff Trad	From Ken Wenz	
Co./Dept. NYSDEC	Co. D&B	
Phone #	Phone # (516) 364-9890	
Fax # (518) 402-9819	Fax #	



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Dvirka and Bartilucci
CONSULTING ENGINEERS
330 Crossways Park Drive, Woodbury, New York 11797-2015
516-364-9890 • Fax: 516-364-9045

D&B FAX NO: (516) 364-9045 DATE: 1/30/03

COMPANY NAME: NYSDEC

ATTENTION: Jeff Trad

FAX NO.: 518-402-9819

FROM: Frank DeVita

SUBJECT: Franklin JOB#:

NO. OF PAGES: 4
(including cover sheet)

MESSAGE:

THANK YOU:

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. DOSULICH ASSOCIATES, P.C.

Project No.: 1640
Project Name: Franklin Cleaners Site

Boring No.: MCOL-D
Sheet 1 **of** 2
By: W. Mann

Drilling Contractor: UniTech Drilling Inc.
Driller: Joe Jester
Drill Rig: CME-85
Date Started: 6/5/00

Geologist: C. Morris
Drilling Method: Mud Rotary
Down-hole Hammer: no blow counts
Date Completed: 6/15/00

Boring Completion Depth: 420 feet
Ground Surface Elevation:
Boring Diameter: 14 / 10 inches

Depth (ft.)	Soil Sample No.	Type	Blows Per 6"	Rec	Sample Description
-0-					Medium brown sandy loam soil.
-1-					
-2-					
-3-					
-4-					Tan medium SAND with pebbles.
-5-					
					BREAK IN LOG – NO SAMPLES TO 92 FEET
-90-					
-91-					
-92-	92-94'	SS		12"	Loose, light gray, fine to medium quartz-feldspathic SAND.
-93-					
-94-					
-95-	95-97'	SS		12"	Loose, light-dark gray, fine to medium quartz-feldspathic SAND.
-96-					
-97-					
-98-					
-99-					
-100-	100-102'	SS		18"	Loose, light gray to brown, fine to medium quartz-feldspathic SAND.

no clay here?

Sample Types:
SS = Split Spoon

NOTES:
Water Table encountered at approximately 21 feet below ground surface.

Post-it® Fax Note 7671	Date 7/6/03	# of pages ▶ 3
To Jim Multari	From Jeff Trap	
Co./Dept. Molloy College	Co. NYSDEC	
Phone #	Phone # 518-402-9814	
Fax # 516-766-8776	Fax #	

Dvirka and Bartilucci CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

Project No.: 1640
Project Name: Franklin Cleaners Site

Boring No.: MCOL-D
Sheet 2 **of** 2
By: W. Mann

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Down-hole Hammer: no blow counts
Date Completed: 6/15/00

Boring Completion Depth: 420 feet
Ground Surface Elevation:
Boring Diameter: 14 / 10 inches

Depth (ft.)	Soil Sample No.	Type	Blows Per 6"	Rec	Sample Description
-101-					
-102-					
-103-					
-104-					
-105-	105-107'	SS		12"	Gray-brown, fine to medium quartz-feldspathic SAND.
-106-					Dark Gray, silty CLAY, with sand and silt striations.
-107-					
-108-	108-110'	SS		12"	4" wood. Gray, fine to medium SAND, little silt. Gray silty clay in tip of spoon.
-109-					
-110-	110-112'	SS		6"	Gray-brown, fine to medium quartz-feldspathic SAND.
-111-					
-112-					
-113-					
-114-					
-115-	115-117'	SS		8"	Dark gray-black, fine to medium quartz-feldspathic SAND.
-116-					
-117-					
-118-					
-119-					
-120-	120-122'	SS		18"	Dense, Black-Gray, fine to medium SAND, little silt
					END OF SPLIT SPOON SAMPLING.

Sample Types:

SS = Split Spoon

NOTES:
12" diameter schedule 40 steel outer casing installed at 110 feet below ground surface and pressure grouted in-place using a bentonite/Portland cement mix.

FRANKLIN CLEANERS SITE
MOLLOY COLLEGE IRRIGATION WELL

WELL CONSTRUCTION LOG

WELL No.: MCOL-D

SITE: MOLLOY COLLEGE

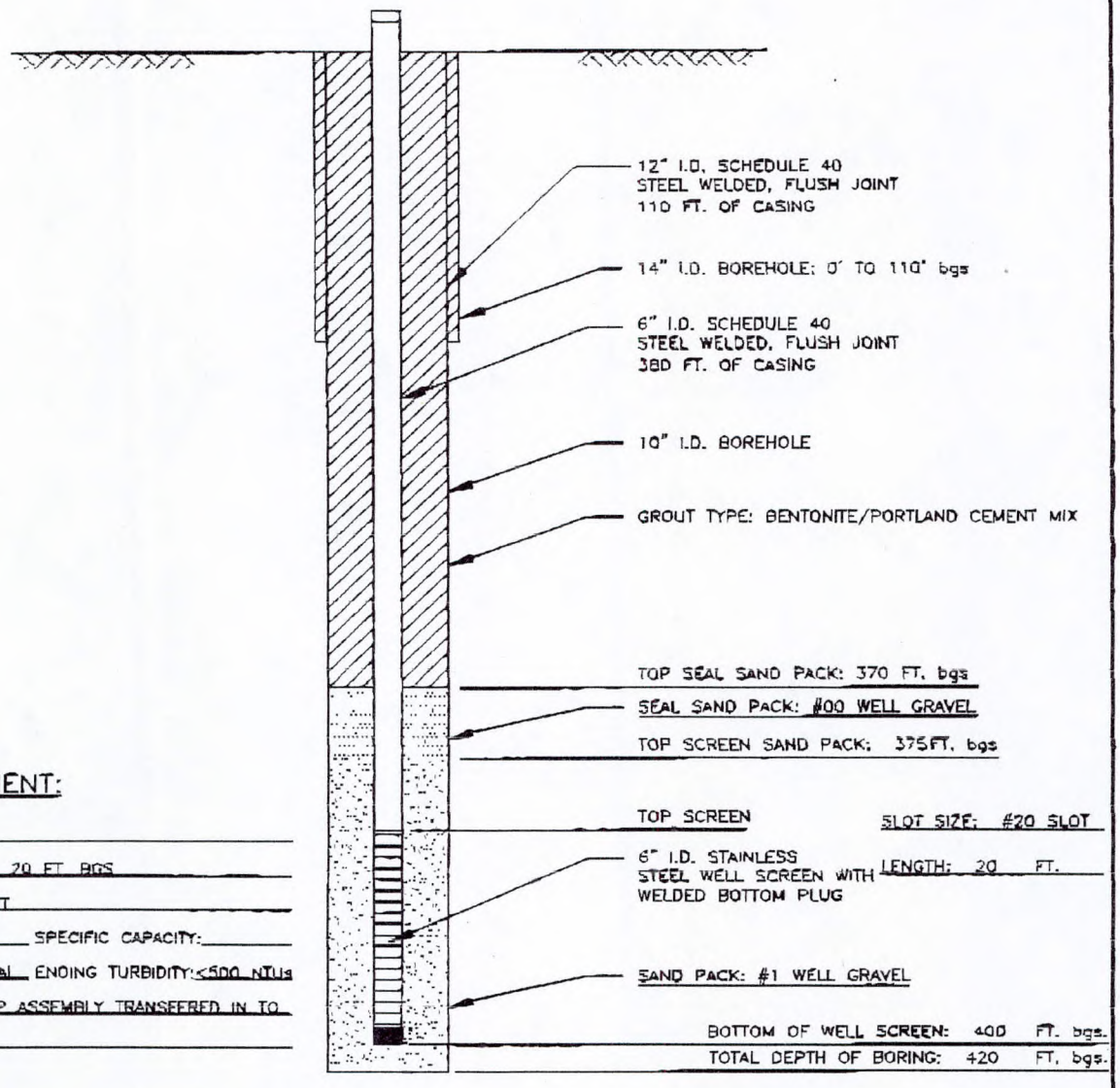
DRILLING COMPANY: UNI-TECH DRILLING COMPANY

DATE STARTED: 6/05/00 DATE COMPLETED: 6/15/00

DRILLING METHOD: MUD ROTARY

BOREHOLE DIAMETER: 14"/10" TOTAL BOREHOLE DEPTH: 420 FT.

TOTAL WELL DEPTH: 400 FT. DEPTH TO WATER: 20 FT. BELOW TOC.



WELL DEVELOPMENT:

METHOD: AIR LIFT

STATIC DEPTH TO WATER: 20 FT BGS

PUMPING DEPTH: 390 FT

PUMPING RATE: 100 GPM SPECIFIC CAPACITY:

VOLUME PUMPED: 4800 GAL ENDING TURBIDITY: <500 NTUs

COMMENTS: EXISTING PUMP ASSEMBLY TRANSFERED IN TO NEW WELL

FILE: 1640-WELL WM-07/20/00

FRANKLIN CLEANERS SITE
MOLLOY COLLEGE IRRIGATION WELL

Dvirka and Bartilucci
Consulting Engineers
A Division of William F. Cosulich Associates, P.C.

RECEIVED
MAY 29 2003

APPENDIX C

WELL CONSTRUCTION LOGS

Post-it® Fax Note 7671 | Date 5/29/03 | # of pages ▶ 25
To J. Trad | From F. DeVita
Co./Dept. NYSDEC | Co. D+B
Phone # 518 402 9814 | Phone # 516 364-9890
Fax # 518 402 9819 | Fax # 516 364 9045

Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

SITE Franklin Cleaners JOB NO. _____ WELL NO. PTW-1

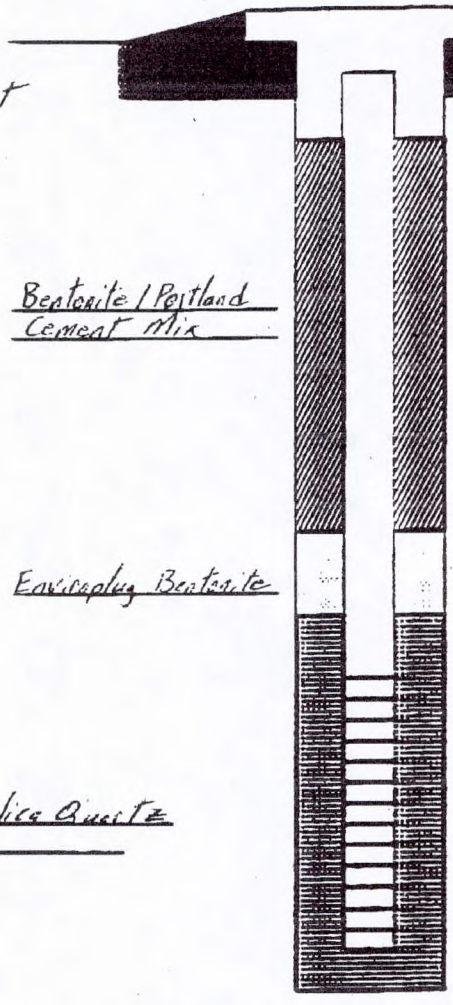
TOTAL DEPTH 95' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) _____ DATE INSTALLED 10/12/99

RISER DIA 6" MATERIAL PVC, Schedule 80 LENGTH 73'

SCREEN DIA 6" MATERIAL Stainless steel LENGTH 20' SLOT SIZE _____

SCHEMATIC



Surface Seal Type Portland Cement

Grout Type Bentonite / Portland Cement Mix

Seal Type Envirosplug Bentonite

Sand Pack Type Silica Quartz
Size #2

Ground Surface
— Riser Elevation
2' Bottom Surface Seal

62 Top Seal

64 Top Sand Pack

73 Top Screen

93' Bottom Screen

95 Total Depth of Boring

Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

SITE Franklin Cleaners JOB NO. 1640 WELL NO. PTMW-1

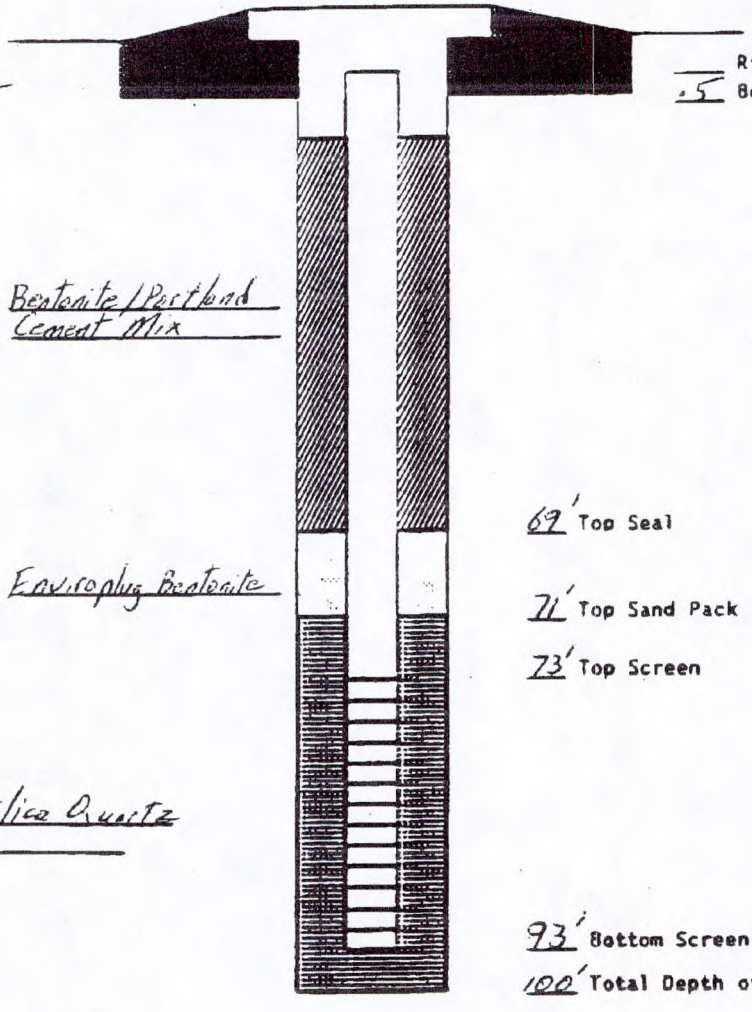
TOTAL DEPTH 100' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) ~23' DATE INSTALLED 9/14/99

RISER DIA 2" MATERIAL PVC Schedule 40 LENGTH 73'

SCREEN DIA 2" MATERIAL PVC Schedule 40 LENGTH 20' SLOT SIZE #10

SCHEMATIC



Surface Seal Type Portland Cement

Grout Type Bentonite/Portland Cement Mix

Seal Type Enviroplug Bentonite

Sand Pack Type Silica Quartz
Size #1

Ground Surface
Riser Elevation
.5 Bottom Surface Seal

69' Top Seal

71' Top Sand Pack

73' Top Screen

93' Bottom Screen

100' Total Depth of Boring

Dvirka and Bartilucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

SITE Franklin Cleaners JOB NO. 1640 WELL NO. PTMW-2

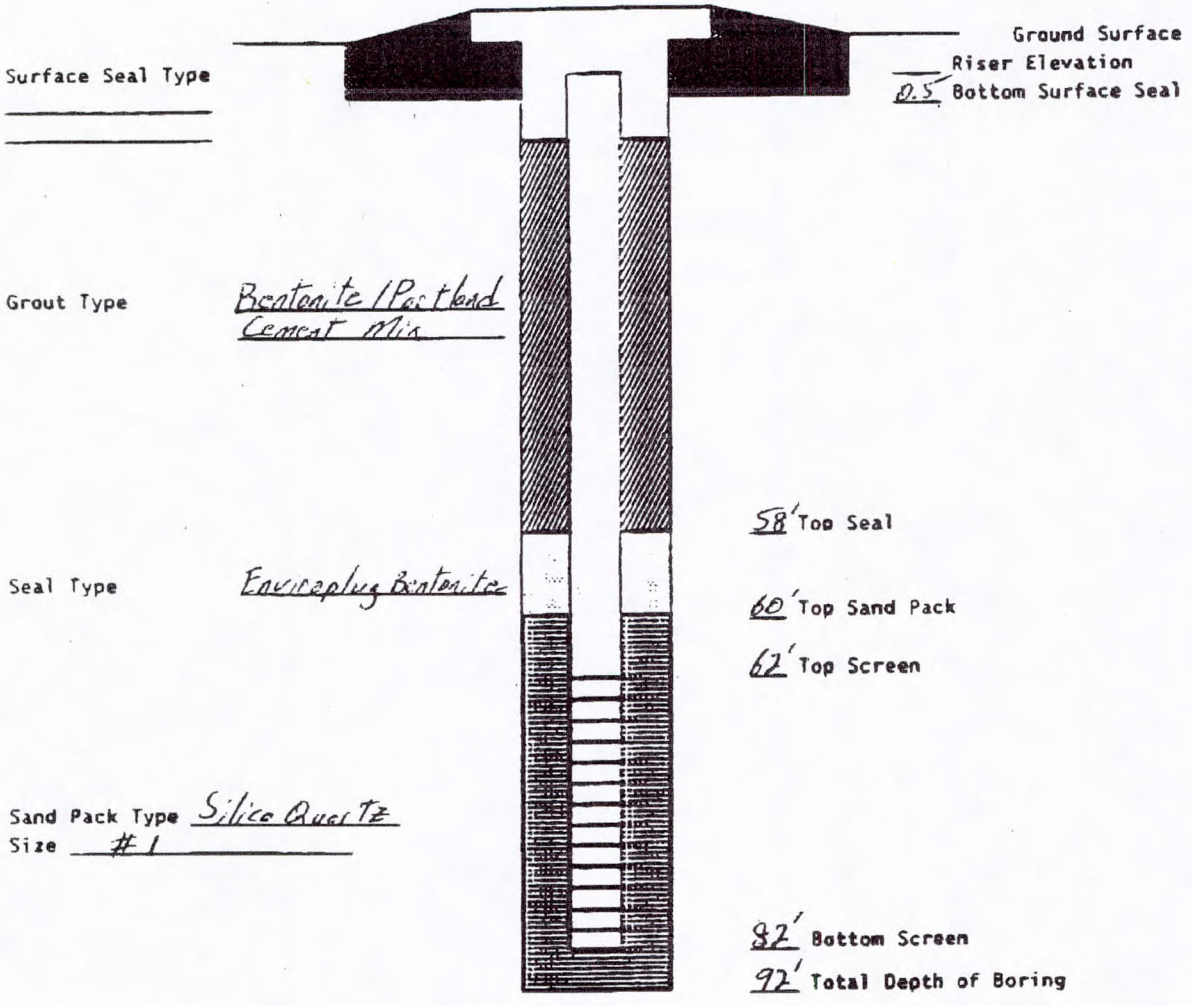
TOTAL DEPTH 92' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) ~23' DATE INSTALLED 10/11/99

RISER DIA 2" MATERIAL PVC Sched. 40 LENGTH 63

SCREEN DIA 2" MATERIAL PVC, Schedule 40 LENGTH 20 SLOT SIZE 10

SCHEMATIC



Dvirka and Bartlucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

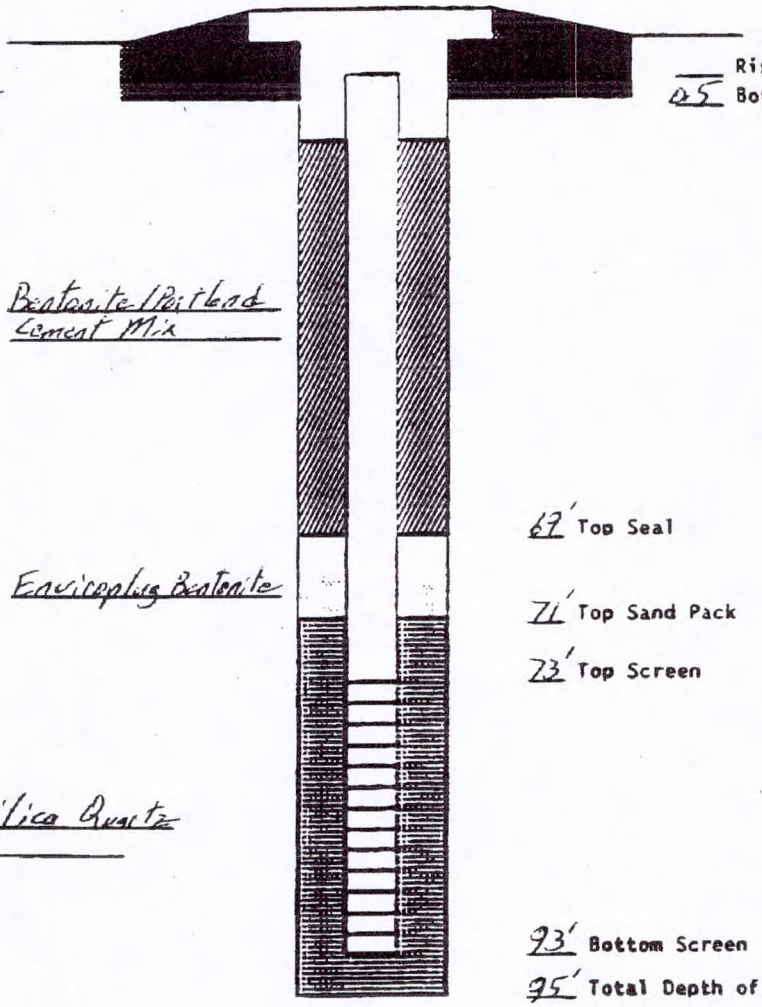
SITE Franklin Cleaners JOB NO. 1640 WELL NO. PTMW-3

TOTAL DEPTH 75' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) _____ DATE INSTALLED 10/13/99

RISER DIA 2" MATERIAL PVC Schedule 40 LENGTH 73'
SCREEN DIA 2" MATERIAL PVC Schedule 40 LENGTH 20' SLOT SIZE 10

SCHEMATIC



Surface Seal Type Portland Cement

Grout Type Bentonite/Portland Cement Mix

Seal Type Encircling Bentonite

Sand Pack Type Silica Quartz
Size #1

Ground Surface
Riser Elevation
05 Bottom Surface Seal

67' Top Seal

71' Top Sand Pack

73' Top Screen

93' Bottom Screen

75' Total Depth of Boring

PRIVILEGE AND CONFIDENTIALITY NOTICE
The information in this fax is intended for the named recipients only. It may contain privileged and confidential matter. If you have received this fax in error, please notify us immediately by a collect telephone call to (516) 364-9890 and return the original to the sender by mail. We will reimburse you for postage. Do not disclose the contents to anyone. Thank-you.

Dvirka and Bartilucci
CONSULTING ENGINEERS
330 Crossways Park Drive, Woodbury, New York, 11797-2015
516-364-9890 • Fax: 516-364-9045

D&B FAX NO: (516) 364-9045 DATE: 5/29/03

COMPANY NAME: NYSDEC

ATTENTION: JEFF TROD

FAX NO.: 518 402-9819

FROM: AL TARNOWSKI

SUBJECT: FRANKLIN CLEANERS JOB#: 1

NO. OF PAGES: 6
(including cover sheet)

MESSAGE:

THANK YOU:

DVIRKA AND BARTILUCCI

DRILLING CONTRACTOR
Driller MIKE PELLEGRINO (DRILL)
Inspector AL IDROSZEWSKI
Rig Type HSA
Drilling Method HSA
Drive Hammer Weight 140

DRILLING LOG

PROJECT NAME FRANKLIN CLEANERS
PROJECT # 1851
Location/Address MOLLOY COLLEGE

BORING NUMBER EW-2
Sheet 1 of 3
Boring Location BETWEEN EXITS 19 & 20 ON SOUTHERN STATE PARKWAY ON SOUTH SIDE

GROUNDWATER OBSERVATIONS

Water Level	21'		
Time	:		
Date			
Casing Depth			

Weather PARTLY CLOUDY
Date/Time Start 5/16/03 0900
Date/Time Finish 5/16/03 1600

Plot Plan

Sample Depth	Sample Number & RECOVER	SPT (BLOW COUNT)	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
10-12	20"	8,18,21,32		10 ORANGE TO LIGHT BROWN POORLY SORTED FINE TO COARSE SAND; / TRACE FINE TO COARSE GRAVEL		
20-22	24"	2,8,8,9		20 ORANGE TO LIGHT BROWN MODERATELY SORTED MEDIUM TO COARS SAND; WET		
30-32	20"	6,5,6,6		30 ORANGE MODERATELY SORTED FINE TO MEDIUM SAND		

STT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

OVIRKA AND BARTILUCCI

DRILLING CONTRACTOR	DRILLING LOG	BORING NUMBER BW-2
Driller	PROJECT NAME FRANKLIN CLEANERS	Sheet 2 of 3
Inspector		Boring Location
Rig Type	PROJECT #	
Drilling Method	Location/Address	
Drive Hammer Weight		

GROUNDWATER OBSERVATIONS			
Water Level			
Time			
Date			
Casing Depth			

Weather

Date/Time Start

Date/Time Finish

Plot Plan

Sample Depth	Sample Number/ Recovery	SPT Blows/6 inches	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
40-42	20	10,11,11,14		40 ORANGE TO LIGHT BROWN MODERATELY SORTED FINE TO MEDIUM SAND, SOME COARSE SAND, TRACE FINE SAND		
50-52	22	11,12,15,12		50 ORANGE TO BROWN WELL SORTED FINE/ FINE TO MEDIUM SAND		
60-62	22	11,12,15,12		60 DARK GRAY STIFF CLAY		
70-72	24	8,9,21,14		70 0-22" SAME 22-24" ORANGE FINE/ FINE TO MEDIUM SAND DRILLER REPORTED "HARD" DRILLING @ 75'		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

DVIRKA AND BARTILUCCI

DRILLING CONTRACTOR
Driller
Inspector
Rig Type
Drilling Method
Drive Hammer Weight

DRILLING LOG
PROJECT NAME FRANKLIN CLEANERS
PROJECT #
Location/Address

BORING NUMBER EW-2
Sheet 3 of 3
Boring Location

GROUNDWATER OBSERVATIONS

Water Level			
Time			
Date			
Casing Depth			

Weather
Date/Time Start
Date/Time Finish

Plot Plan

Sample Depth	Sample Number / Recovery	SPT Blow Counts	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL
80-82	36"	6,7,7,9		80 ALTERNATING LAYERS OF DARK GRAY SILTY CLAY & GRAY POORLY SORTED MEDIUM TO COARSE SAND; F GRAVEL
82-84	18"	7,8,10,11		82-84 LT GRAY WELL SORTED FINE/FINE-MEDIUM SAND; TRACE GRAVEL
84-86	24"	12,14,15,20		84-86 LT. GRAY FINE/FINE-TO MEDIUM SAND; TRACE FINE GRAVEL; MICA FLAKES
86-88	24	7,8,9,9		86-88 0-6" SAME 6-24" LT GRAY MEDIUM/COARSE SAND
88-90	18"	6,6,7,8		88-90 0-4" LAYERS OF LT GRAY CLAY, SILT + FINE SAND 4-18" GRAY WELL SORTED FINE SAND
90-92	24	5,7,6,5		90-92 0-8" LT BROWN SANDY, SILTY CLAY 8-24" LAYERS OF GRAY FINE SAND AND FINE SAND
92-94	24	6,5,6,7		92-94 LAYERS OF ORANGE, GRAY AND BROWN FINE SAND, LITTLE SILT
94-96	24"	5,5,7,7		94-96 0-6" SAME 6-24" ORANGE MODERATELY SORTED FINE - MEDIUM SAND
96-98	14"	8,10,10,15		96-98 0-7" BN WELL SORTED FINE SAND 7-14" LT GRAY FINE - MEDIUM SAND
98-100	24"	8,10,8,10		98-100 ALTERNATING LAYERS OF FINE-MEDIUM SAND & GRAY SAND AND CLAY
100-102	14"	10,11,14,8		100-102 0-8 BROWN FINE TO MEDIUM SAND 8-14 VARIED GRAY + BLACK SILT + F SAND
102-104	24"	6,8,10,10		102-104 0-12" BROWN MODERATELY SORTED F/M SAND 12-24 GRAY " " " M SAND
104-106	24	12,13,12,15		104-106 BROWN - ORANGE MODERATELY SORTED FINE-MEDIUM SAND
106-108	24	12,10,11,12		106-108 LT. BROWN & LT GRAY MODERATELY SORTED MEDIUM SAND
108-110	24	10,9,10,8		108-110 0-18" BROWN POORLY SORTED FINE SAND, SOME SAND 18" - LAYERS OF GREY AND BLACK FINE SAND AND SILT

WELL SCHEMATIC	COMMENTS

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

Dvirka and Bartlucci CONSULTING ENGINEERS

WELL CONSTRUCTION LOG

SITE _____ JOB NO. _____ WELL NO. _____

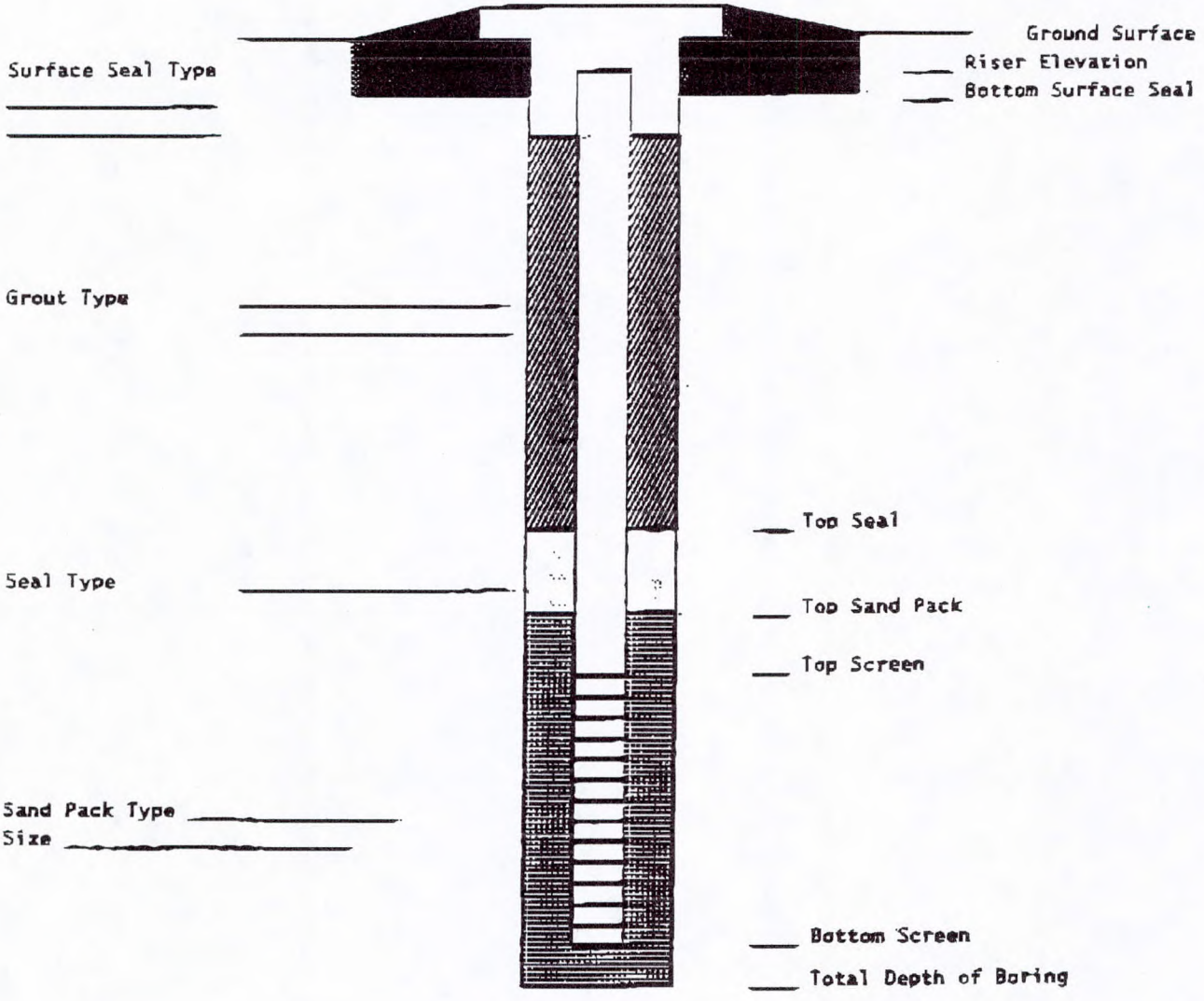
TOTAL DEPTH _____ SURFACE ELEV. _____ TOP RISER ELEV. _____

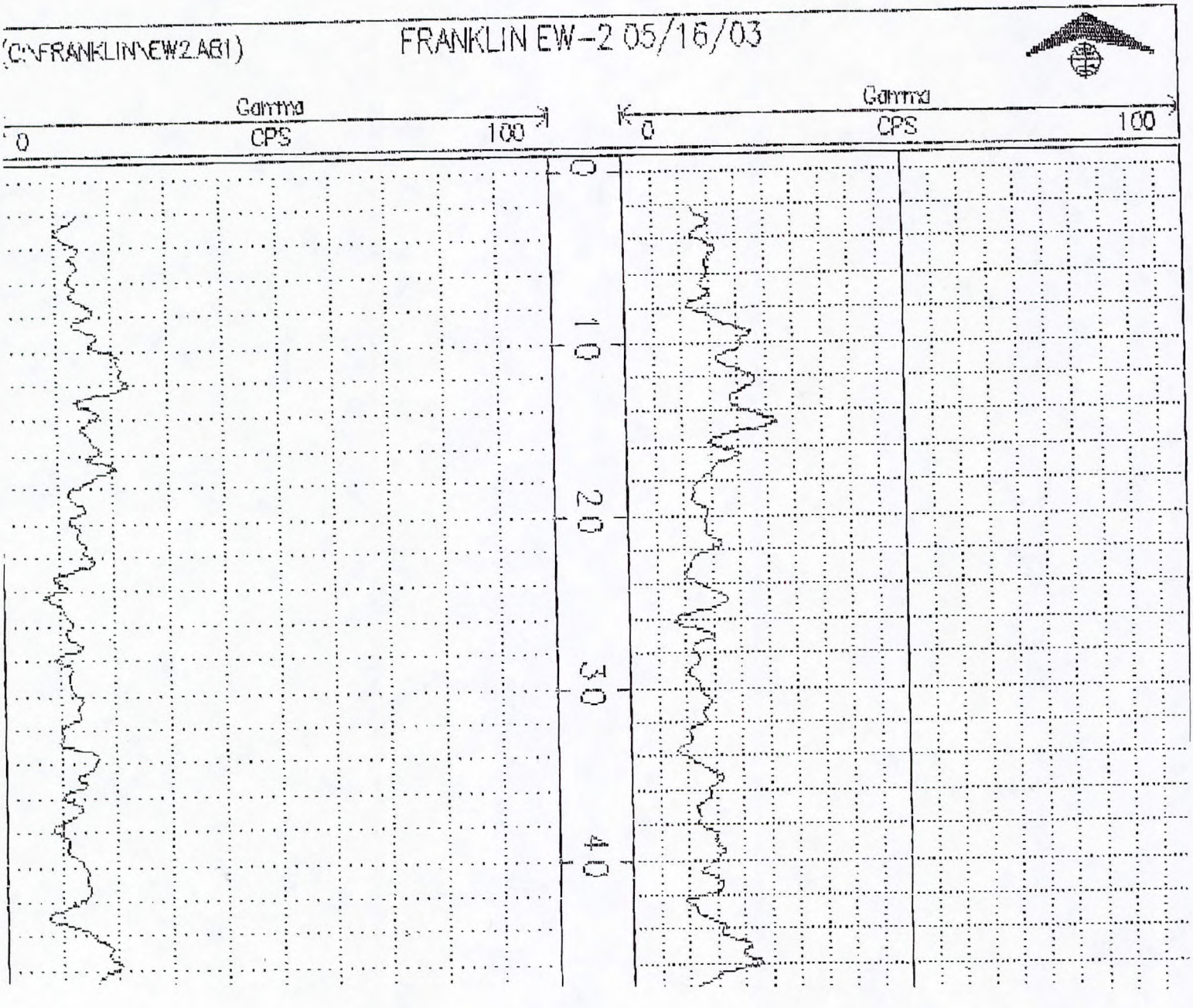
WATER LEVELS (DEPTH, DATE, TIME) _____ DATE INSTALLED _____

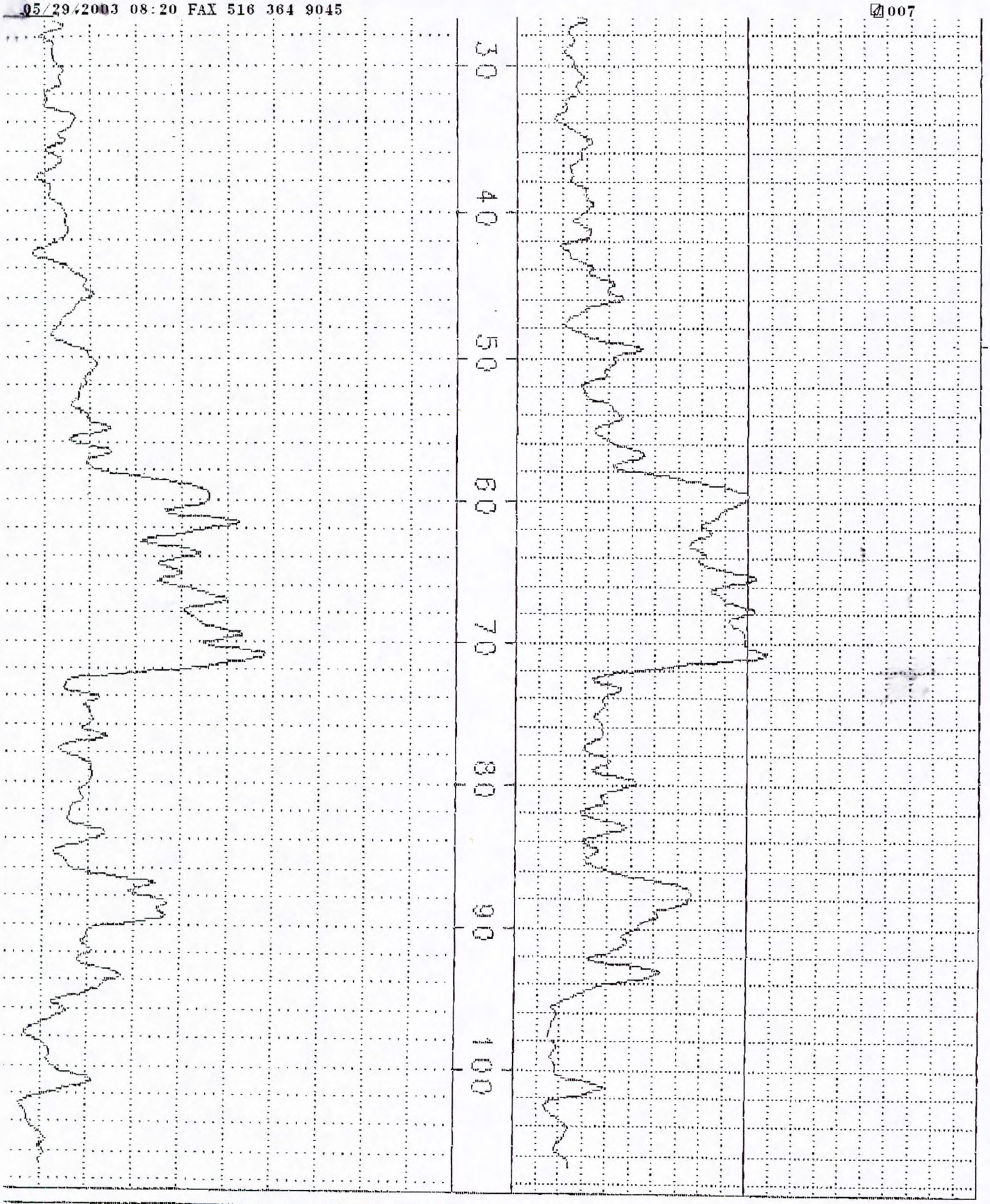
RISER DIA ___ MATERIAL _____ LENGTH ___

SCREEN DIA ___ MATERIAL _____ LENGTH ___ SLOT SIZE _____

SCHEMATIC




(C:\FRANKLIN\EW2.AB1)
FRANKLIN EW-2 05/16/03
Gamma
0
CPS
100
Gamma
0
CPS
100
0
10
20
30
40



Gamma
0 CPS 100

Gamma
0 CPS 100

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FRANKLIN EW-2 05/15/03

Dvirka and Bartilucci Consulting Engineers

WELL CONSTRUCTION LOG

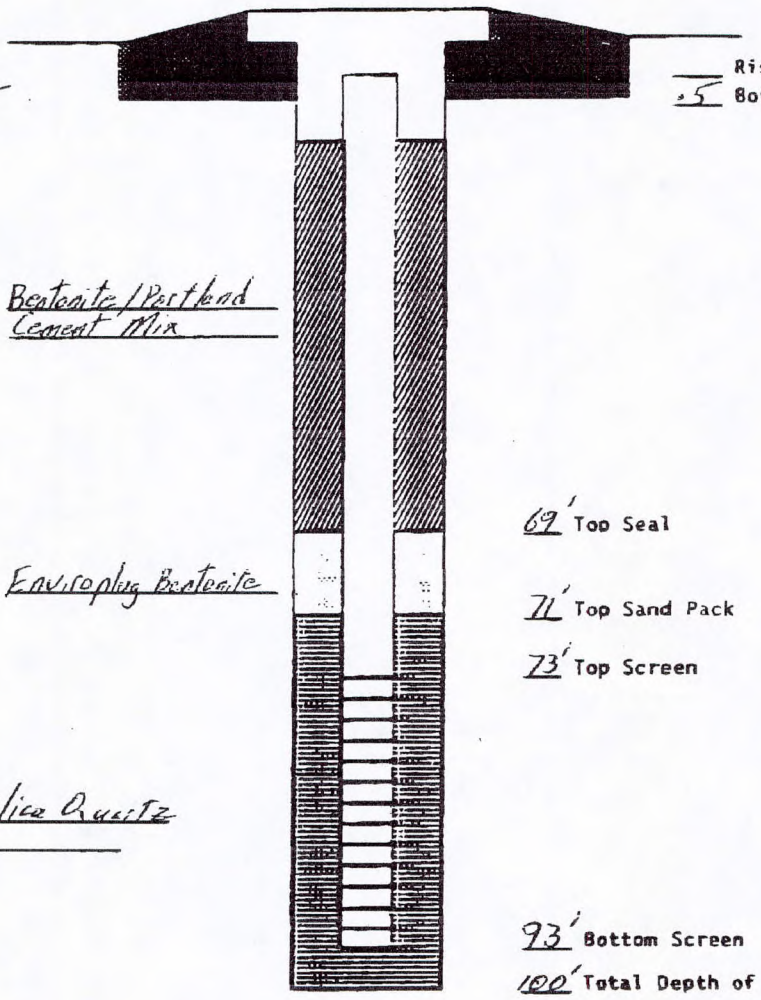
SITE Franklin Cleaners JOB NO. 1640 WELL NO. PTMW-1

TOTAL DEPTH 100' SURFACE ELEV. _____ TOP RISER ELEV. _____

WATER LEVELS (DEPTH, DATE, TIME) ~23' DATE INSTALLED 9/14/99

RISER DIA 2" MATERIAL PVC Schedule 40 LENGTH 73'
SCREEN DIA 2" MATERIAL PVC Schedule 40 LENGTH 20' SLOT SIZE #10

SCHEMATIC



Surface Seal Type Portland Cement

Grout Type Bentonite/Portland Cement Mix

Seal Type Enviroplug Bentonite

Sand Pack Type Silica Quartz
Size #1

Ground Surface
Riser Elevation
.5 Bottom Surface Seal

69' Top Seal

71' Top Sand Pack

73' Top Screen

93' Bottom Screen

100' Total Depth of Boring

RECEIVED
MAY 29 2003

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To J. Tead	From F. DeVita
Co./Dept. NYSDEC	Co. D+B
Phone # 518 402 9814	Phone # 516 364-9890
Fax # 518 402 9819	Fax # 516 364 9045

APPENDIX A

BORING LOGS

OVIATT
AND
BARTILUCCI

DRILLING CONTRACTOR
Driller: Butch H / UniTech
Inspector: Wayne Mann
Rig Type: CME-85 Drill Rig
Drilling Method: Auger / Split Spoon
Drive Hammer Weight:

DRILLING LOG
PROJECT NAME: Franklin Clearcs
PROJECT #: 1640
Location/Address: Pole 216 southern State Parkway

BORING NUMBER PTMW-1
Sheet 1 of 4
Boring Location: 17.5 Ft East of pole 216

GROUNDWATER OBSERVATIONS

Water Level	23'		
Time			
Date	9/13		
Casing Depth	93'		

Weather: Clear low 80's
Date/Time Start: 9/13/99 11:00
Date/Time Finish: 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-2	SS-1		0.0	0-2 Organic material mixed with Medium & To coarse SAND		
Recovery none	Hand dig					
4-6	SS-1		0.0	4-6 Tan Brown Fine to Coarse SAND, little small rounded Gravel. Poorly Sorted		
Recovery 8"						
Hammer 2,9,14,12						
9-11			0.0	9-10 Tan Brown Medium to Coarse SAND, little (+) small rounded Gravel		
Recovery 12"				10-11 Tan Fine to Medium SAND		
Blows 4,8,14,11						
14-16			0.0	14-16 Tan Brown Medium to Coarse SAND, Trace (+) Small rounded Gravel		
Recovery 14"						
Blows 5,5,7,7						
19-21			0.0	19-21 Tan/light Brown Fine to Coarse SAND, Trace (-) small/fine rounded Gravel, Medium Dense		
Recovery 14"						
Blows 3,7,13,10						
24-26			0.0	24-26 Tan/light Brown medium dense Fine to Coarse SAND, Trace (-) small rounded Gravel Moist		Water Table @ ± 23 ft.
Recovery 20"						
Blows 3,5,13,12						
29-31			0.0	29-31 Tan/light Brown medium dense Fine to Coarse SAND Trace small/fine rounded Gravel Moist		
Recovery 20"						
Blows 5,10,14,11						
34-36			0.0	34-36 Tan/light Brown medium Dense fine to coarse SAND Trace (+) small rounded Gravel Moist.		
Recovery 24"						
Blows 3,8,13,15						
39-41			0.0	39-41 Tan/light Brown medium Dense Fine to coarse SAND Trace (+) small rounded Gravel		
Recovery 23"						
Blows 5,10,13,11						
44-46			0.0	44-46 Same		
Recovery 24"						
Blows 5,7,11,12						

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

DVIRKA AND BARTILUCCI

DRILLING LOG

BORING NUMBER PTMW-1
Sheet 2 of 4

DRILLING CONTRACTOR
Driller Butch H, UniTech
Inspector Wayne Mann
Rig Type CME-85 Drill Rig
Drilling Method Auger/Split spoon
Drive Hammer Weight

PROJECT NAME Franklin Cleaners
PROJECT # 1640
Location/Address Pole 216 Southern State Parkway

Boring Location 175 ft east of pole 216

GROUNDWATER OBSERVATIONS

Water Level	23'		
Time			
Date	9/13/99		
Casing Depth	93'		

Weather Clear low 80's
Date/Time Start 9/13/99 11:00
Date/Time Finish 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
49-51			0.0	Tan/Light Brown Dense Medium to Coarse SAND Trace small rounded Gravel		
recovery 18"						
Blows 9,20,21,27						
51-53			0.0	Same		
recovery 20"						
Blows 17,20,22,27						
53-55				53-55 Same		
recovery 24"						
Blows 23,14,14,8						
55-57				55-57 Sample Washed out. Light Brown fine to coarse SAND		
recovery 4"						
Blows 14,7,8,9						
57-59				57-59 Tan/Orange Brown medium Dense Fine to Coarse SAND, Trace small/ Fine rounded Gravel. 1" layer of Gray Silty Clay in tip @ 59ft.		
recovery 24"						
Blows 11,15,15,17						
59-61				59-61 Tan/Orange Brown medium Dense Fine to Coarse SAND Trace small rounded Gravel 2" thick layer of Gray sandy clay @ 60 ft.		
recovery 20"						
Blows 9,8,17,15						
61-63				61-63 Tan/Orange Brown Dense Fine to Coarse SAND Trace Small/Fine rounded Gravel.		
recovery 21"						
Blows 13,25,31,26						
62-64				62-64 Same		
recovery 18"						
Blows 26,17,19,21						
64-66				64-66 Same		
recovery 14"						
Blows 4,9,15,17						

Bentonite Grout

2" PVC sch 40 Riser

STANDARD PENETRATION TEST

Soil Stratigraphy Summary

OVERKA AND BARTILUCCI

DRILLING LOG

BORING NUMBER PTMW-1
Sheet 3 of 4

DRILLING CONTRACTOR
Driller Butch H / Hi Tech
Inspector Wayne Mann
Rig Type CME-85 Drill Rig
Drilling Method Auger / Split Spoon
Drive Hammer Weight

PROJECT NAME Franklin Clearers
PROJECT # 1640
Location/Address E Pole 216 Southern State Parkway

Boring Location 17.5ft east of Pole 216

GROUNDWATER OBSERVATIONS

Water Level	23'		
Time			
Date	9/14/99		
Casing Depth	93'		

Weather Clear low 80's
Date/Time Start 9/13/99 11:00
Date/Time Finish 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
66-68			0.0	66-67 Tan Brown dense fine to coarse SAND, Trace (-) Gravel		
recovery 18"				67-68 Gray Fine SAND little (+) Silty, Sandy Clay high mica content		
Blows 9,14,16,22						
68-70			0.0	68-70 Gray Fine to medium SAND little (+) Silty sandy clay. Organic material visible in striation in 2" interval @ 68.69 ft. High mica content.		Bentonite Grout
recovery 12"						
Blows 7,10,14,18						
70-72			0.0	70-72 Gray Dense Fine to medium SAND high Mica Content, very fine sand.		2" PVC riser
recovery 9"						
Blows 21,27,31,28						
72-74			0.0	72-74 Gray Dense Fine to medium SAND high Mica content. 4" Gray Sandy Clay @ 72 ft.		
recovery 16"						
Blows 4,9,13,11						
74-76			0.0	74-76 Top 8" Gray Sandy Clay. Black striations, high sand content little plasticity. Bottom 6" Gray Dense Fine to Medium SAND, little (+) Silty sand.		Sample collected for grainsize analysis PTMW-1(74-76) 9/14/99 07:50
recovery 14"						
Blows 5,10,13,12						
76-78			0.0	76-78 Gray Dense Fine to medium SAND little (-) gray silt. 1" interval Gray Sandy Clay @ 78'		Sample collected for grain size analysis PTMW-1(76-78) 9/14/99 07:50
recovery ~~12" 9, 13, 21~~						
Blows 10,10,19,21						
78-80				78-80 Dark Gray Dense Fine to medium SAND little (-) gray silt.		
recovery 14"						
Blows 5,9,28,37						
80-82				80-82 Refusal @ 80'11" Gray Dense Fine to Coarse SAND.		
recovery 10"						
Blows 29,50/5						
82-84				82-84 Gray Dense Fine to Medium SAND high Mica Content. Black 2" layer @ 84' organic matter.		Sample collected for grain size analysis PTMW-1(82-84) 9/14/99 09:10
recovery 14"						
Blows 6,14,26,47						

Soil Stratigraphy Summary

SPT = STANDARD PENETRATION TEST

DVIRKA AND BARTILUCCI

DRILLING LOG

BORING NUMBER PTMW-1
Sheet 4 of 4

DRILLING CONTRACTOR
Driller Butch H / Uni Tech
Inspector Wayne Mena
Rig Type CME-85 Drill Rig
Drilling Method Auger / split spoon
Drive Hammer Weight

PROJECT NAME Franklin Cleaners
PROJECT # 1640
Location/Address Pole 216 Southern State Parkway

Boring Location 17.5 Ft East of pole 216

GROUNDWATER OBSERVATIONS
Water Level 73'
Time
Date 9/14/99
Casing Depth 93'

Weather Clear low 80's
Date/Time Start 9/13/99 11:00
Date/Time Finish 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
84-86				84-86 Gray Dense Fine to Medium SAND little (-) silt with black striations		
recovery 13"						
Blows 8,21,31,35						
86-88				86-88 Refusal @ 86'11" Gray Dense Fine to Medium SAND little (-) Silt. Powder like. High Mica content.		Sample collected for grainsize analysis PTMW-1(86-88) 9/14/99 09:30
recovery 12"						
Blows 25, 50/5						
88-90				88-90 Gray Dense Fine to Medium SAND little (-) Silt. High Mica content. high percentage Fine SAND.		
recovery 16"						
Blow 9,16,34,34						
90-92				90-92 Dark Gray Dense to Fine to Medium SAND little (-) Silt		2" PVC Screen #10 Slot Sample collected for grain size analysis PTMW-1(90-92) 9/14/99 18:15
recovery 22"						
Blows 23,22,25,27						
92-94				92-94 Dark Gray Dense Fine to Medium SAND, little (-) Silt. Bottom 3" brownish tan fine Sand.		93 ft below Grade
recovery 22"						
Blows 11,12,16,10						
94-96				94-95.2ft Brownish Gray medium Dense Fine to medium SAND. followed 1" interval lignite.		Gravel pack
recovery						6" Borehole
Blows 8,9,7,12				95.3-96 9" Dark Dense Gray/Black Silty Clay, little moisture		95.3 Openning into Clay filled with Bentonite water mix.
96-98				96-98 Dark Dense Gray/Black Silty Clay. Clay appears competent. dry		Bentonite/water mix
recovery 13"						
Blows 18,21,19,12						
98-100				98-100 Dark Gray/Black Dense Silty Clay. no moisture. Gray Sand/Silt striations approx 1/8 inch thick		Black clay layer found same interval @ MW5
recovery 24"						
Blows 16,22,32,38						
				Boring Terminated. Clay layer filled w/ Bentonite mix. borehole flushed to remove Bentonite/mud mix 2 ft gravel pack above clay then welled to grade		

SPT = STANDARD PENETRATION TEST

Soil Stratigraphy Summary

APPENDIX B

GRAIN SIZE ANALYSIS RESULTS

Analytical Data Package for Dvirka & Bartilucci

Client Project: Franklin Cleaners/1640-2

SDG# 61787

Mitkem Project ID: 61787

October 14, 1999

SDG Narrative

Mitkem Corporation submits the enclosed data package in response to Dvirka & Bartilucci's Franklin Cleaners project. Under this deliverable, analysis results are presented for five soil samples that were received on September 15, 1999. Analyses were performed per specifications in the chain of custody forms.

The following samples are submitted in this data package:

Client ID	Lab ID	Analysis
PTMW-1(74-76)	61787001	G
PTMW-1(76-78)	61787002	G
PTMW-1(82-84)	61787003	G
PTMW-1(86-88)	61787004	G
PTMW-1(90-92)	61787005	G

G = Grain Size – ASTM D422

The analyses were performed according to ASTM protocols. The analyses were subcontracted to Rhode Island Analytical Laboratories (RIAL) for performance of the requested tests, which are not performed by Mitkem. A copy of the RIAL report is attached.

No unusual observation was made for the analysis.

If you have any questions, please do not hesitate to call me.

Sincerely,

Edward A. Lawler
Laboratory Operations Manager
10/15/99

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

REPORT TO		INVOICE TO		LAB PROJECT #:
COMPANY Dvirka & Bartilucci	PHONE (516) 364-9890	COMPANY Dvirka & Bartilucci	PHONE (516) 364-9890	61787
NAME Robbin Petrella	FAX (516) 364-9045	NAME Dave Glass	FAX (516) 364-9045	
ADDRESS 333 Crossways Park Drive		ADDRESS 330 Crossways Park Drive		TURNAROUND TIME: 72hrs
CITY/ST/ZIP Woodbury NY 11797		CITY/ST/ZIP Woodbury NY 11797		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
Franklin Cleaners	1640-2	1640-2

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	Volatiles Analysis via ASTM D-4421	REQUESTED ANALYSES	COMMENTS
~~PTmw-1(74-76)~~											
PTmw-1(76-78)	9/14/99 ~~07:45~~ 07:50		X		X		01	2	X		(2) 80z jars (glass)
~~PTmw-1(82-84)~~	~~9/14/99 07:50~~		~~X~~		~~X~~						
PTmw-1(76-78)	9/14/99 07:50		X		X		02	2	X		(2) 80z jars (glass)
PTmw-1(82-84)	9/14/99 09:10		X		X		03	2	X		(2) 80z jars (glass)
PTmw-1(86-88)	9/14/99 09:30		X		X		04	2	X		(2) 80z jars (glass)
PTmw-1(90-92)	9/14/99 10:15		X		X		05	2	X		" " " "
	"										" " " "
	"										
	"										
	"										
	"										
	"										

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1		9/14/99 17:00	Jeffrey Reynolds	9/15/99 09:00		3°
2		"		"		
3		"		"		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

05/29/2003 13:56 FAX 516 364 9045 010

MITKEM CORPORATION

09/15/99 05:26 PM | Page 1 of 1 | Original | Lab Workorder #: 61787

Lab Workorder: 61787

Client: Dvirka & Bartilucci
Lab Workorder ID: Franklin Cleaners/1640-2
Client Proj ID:
Client PO #: 1640-2
Project / Profile Name: Franklin Cleaners
Date Due: 09/20/99
Customer Service:
Del Req'd: ASP B (2 copies)
Completed?:
Profile Notes: Voas are unpreserved;7 Day Holding Time
Project Notes: SAMPLES SUBBED TO RIAL

Logged In By:
Reviewed By: RAS

Date Opened: 09/15/99 11:46
Date Closed: 09/15/99 17:26

Project Status: WP

Lab ID	Client ID	Matrix	Type	Analysis Code	Collected	Received	Due	Notes
61787001	PTMW-1(74-76)	S	SAMPLE	A19-D422Gr DRY WEIGHT	09/14/99 07:50	09/15/99	09/20/99	PTMW17476--SEIVE & HYDROMETER
61787002	PTMW-1(76-78)	S	SAMPLE	A19-D422Gr DRY WEIGHT	09/14/99 07:50	09/15/99	09/20/99	PTMW17678--SEIVE & HYDROMETER
61787003	PTMW-1(82-84)	S	SAMPLE	A19-D422Gr DRY WEIGHT	09/14/99 09:10	09/15/99	09/20/99	PTMW18284--SEIVE & HYDROMETER
61787004	PTMW-1(86-88)	S	SAMPLE	A19-D422Gr DRY WEIGHT	09/14/99 09:30	09/15/99	09/20/99	PTMW18688--SEIVE & HYDROMETER
61787005	PTMW-1(90-92)	S	SAMPLE	A19-D422Gr DRY WEIGHT	09/14/99 10:15	09/15/99	09/20/99	PTMW19092--SEIVE & HYDROMETER

INVOICE AND REPORT GO TO:

Robbin Petrella
Dvirka & Bartilucci
330 Crossways Park Drive
Woodbury, NY, 11797
W : 516-364-9890
F : 516-364-9045

0003

05/29/2003 13:56 FAX 516 364 9045 011

MITKEM CORPORATION

Sample Condition Form

Page__of__

Received By: (NR)	Reviewed By: JJA	Date: 9/15/99	MITKEM Project: 61787
Client Project: FRANKLIN CLEANERS		Client: DURVA & BARTILUCCI	

Condition:		Sample ID		Preservation (pH)				Comments/Remarks/ Corrective Action*
		Lab	Client	HNO_3	H_2SO_4	HCl	NaOH	
1) Custody Seal(s)	(Present)/Absent	01	PTMW-1(74-76)					
	Coolers/Bottles	02	-1(76-78)					
	(Intact)/Broken	03	-1(82-84)					
		04	-1(86-88)					
		05	-1(90-92)					
2) Custody Seal Number(s)	N/A							
3) Chain-of-Custody	(Present)/Absent							
4) Cooler Temperature	3°							
Coolant Condition	ICE							
5) Airbill(s)	(Present)/Absent							
Airbill Number(s)	FED-EX							
	811368228138							
6) Sample Bottles	(Intact)							
	Broken							
	Leaking							
7) Date Received	9/15/99							
8) Time Received	09:00							
9) Project Due Date	72 HRS							

* See Sample Condition Notification/Corrective Action Form yes (no)

0004

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Milkem Corporation
Date Received: 9/15/99
Work Order # 9909-08765

Approved by:
R.I. Analytical

Sample #: 001
SAMPLE DESCRIPTION: 61787-01 09/14/99 @0750

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SIEVE ANALYSIS	*		%	ASTM	9/20/99 10:00	SB
HYDROMETER	*				10/05/99 16:27	SB

* See Attached for Sieve Analysis

Sample #: 002
SAMPLE DESCRIPTION: 61787-02 09/14/99 @0750

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SIEVE ANALYSIS	*		%	ASTM	9/20/99 10:00	SB
HYDROMETER	*				10/05/99 16:27	SB

* See Attached for Sieve Analysis

Sample #: 003
SAMPLE DESCRIPTION: 61787-03 09/14/99 @0910

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SIEVE ANALYSIS	*		%	ASTM	9/20/99 10:00	SB
HYDROMETER	*				10/05/99 16:27	SB

* See Attached for Sieve Analysis

Sample #: 004
SAMPLE DESCRIPTION: 61787-04 09/14/99 @0930

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SIEVE ANALYSIS	*		%	ASTM	9/20/99 10:00	SB
HYDROMETER	*				10/05/99 16:27	SB

* See Attached for Sieve Analysis

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Date Received: 9/15/99
Work Order # 9909-08765

Approved by: R.I. Analytical

Sample #: 005
SAMPLE DESCRIPTION: 61787-05 09/14/99 @1015

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	ANALYZED DATE/TIME	ANALYST
SIEVE ANALYSIS	*		%	ASTM	9/20/99 10:00	SB
HYDROMETER	*				10/05/99 16:27	SB

* See Attached for Sieve Analysis

-Sieve Analysis-

Company: Mitkem Corp.
Analysis(s): S.B.
Date: 9/20/99

Sample #: 8765-1
Initial Mass: 122.12

Sieve #	Sieve & Cardboard (g)	Sieve & Cardboard& Sample (g)	Sample (g)	% Retained	% Passing
40	426.65	433.44	6.79	5.59	94.41
60	388.48	422.04	33.56	27.36	66.78
120	458.71	515.72	57.01	46.94	19.84
200	375.95	383.73	7.78	6.41	13.43
270	423.64	431.87	8.23	6.78	6.65
325	423.63	425.44	1.81	1.49	5.16
400	432.78	435.96	3.18	2.62	2.54
PAN	391.64	394.72	3.08	2.54	0.00

Total = 121.44

Sample #: 8765-2
Initial Mass: 219.82

Sieve #	Sieve & Cardboard (g)	Sieve & Cardboard& Sample (g)	Sample (g)	% Retained	% Passing
40	426.72	487.37	60.65	27.67	72.33
60	387.76	490.08	102.32	46.68	25.65
120	458.60	502.10	43.50	19.85	5.80
200	375.85	381.21	5.36	2.45	3.35
270	423.48	424.09	0.61	0.28	3.07
325	423.43	424.70	1.27	0.58	2.49
400	432.55	433.72	1.17	0.53	1.96
PAN	391.50	395.80	4.30	1.96	0.00

Total = 219.18

-Sieve Analysis-

Company: Mitkem Corp.
Analysis(s): S.B.
Date: 9/20/99

Sample #: 8765-3
Initial Mass: 179.84

Sieve #	Sieve & Cardboard (g)	Sieve & Cardboard& Sample (g)	Sample (g)	% Retained	% Passing
40	426.69	453.11	26.42	14.96	85.04
60	387.76	496.25	108.49	61.44	23.60
120	458.5	486.15	27.65	15.66	7.94
200	375.77	380.88	5.11	2.89	5.05
270	423.38	424.46	1.08	0.61	4.44
325	423.48	424.74	1.26	0.71	3.73
400	432.78	434.02	1.24	0.70	3.03
PAN	391.58	396.93	5.35	3.03	0.00

Total = 176.60

Sample #: 8765-4
Initial Mass: 202.33

Sieve #	Sieve & Cardboard (g)	Sieve & Cardboard& Sample (g)	Sample (g)	% Retained	% Passing
40	426.84	428.67	1.83	0.91	99.09
60	387.76	520.09	132.33	65.59	33.50
120	458.46	500.81	42.35	20.99	12.51
200	375.72	384.65	8.93	4.43	8.08
270	423.52	428.25	4.73	2.34	5.74
325	423.53	424.90	1.37	0.68	5.06
400	432.56	435.45	2.89	1.43	3.63
PAN	391.51	398.83	7.32	3.63	0.00

Total = 201.75

-Sieve Analysis-

Company: Mitkem Corp.
Analysis(s): S.B.
Date: 9/20/99

Sample #: 8765-5
Initial Mass: 251.97

Sieve #	Sieve & Cardboard (g)	Sieve & Cardboard& Sample (g)	Sample (g)	% Retained	% Passing
40	426.59	441.94	15.35	6.13	93.87
60	387.90	545.35	157.45	62.90	30.97
120	458.45	506.62	48.17	19.24	11.73
200	375.81	387.43	11.62	4.64	7.09
270	423.45	429.60	6.15	2.46	4.63
325	423.46	423.56	0.10	0.04	4.59
400	432.64	435.42	2.78	1.11	3.48
PAN	391.50	400.20	8.7	3.48	0.00

Total = 250.32

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

Page ___ of ___

REPORT TO			INVOICE TO			
COMPANY		PHONE	COMPANY		PHONE	LAB PROJECT #: 8765
NAME	Data Reporting	FAX	NAME	Len Ranalli	FAX	
ADDRESS			ADDRESS			TURNAROUND TIME: 72 hrs. due 9-20
CITY/ST/ZIP			CITY/ST/ZIP			

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
	61787	9961787A

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	Grain Analysis Astm D422	REQUESTED ANALYSES	COMMENTS
61787-01	9/14/99 07:50				X			2	X		
-02	07:50				X			2	X		
-03	9:10				X			2	X		
-04	9:30				X			2	X		
-05	10:15				X			2	X		
	/										
	/										
	/										
	/										
	/										
	/										
	/										

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
1	David Healey	9/15/99 13:30	D Gudis	9/15/99 1335	Short TAT	
		/		/		
		/		/		

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

05/29/2003 13:58 FAX 516 364 9045
018

Mitkem Corporation
Attn: Data Reporting
175 Metro Center Blvd.
Warwick, RI 02886-1755

Date Received: 9/15/99
Date Reported: 10/06/99
P.O.#: 9961787A
Work Order #: 9909-08765

PARTICLE SIZE

ASTM METHOD D422 **RIAL SAMPLE ID 8765-1**

MITKEM SAMPLE ID#61787-1

Gravel	**0.00%**
Course Sand	**0.00%**
Medium Sand	**5.59%**
Fine Sand	**80.98%**
Silt size, 0.074 to 0.005 mm	**10.63%**
Clay size, smaller than 0.005 mm	**2.80%**
Colloids, smaller than 0.001 mm	**0.00%**

PARTICLE SIZE

ASTM METHOD D422 RIAL SAMPLE ID 8765-2

MTKEM SAMPLE ID#61787-2

Gravel	0.00%
Course Sand	0.00%
Medium Sand	27.67%
Fine Sand	68.98%
Silt size, 0.074 to 0.005 mm	2.93%
Clay size, smaller than 0.005 mm	0.42%
Colloids, smaller than 0.001 mm	0.00%

PARTICLE SIZE

ASTM METHOD D422 **RIAL SAMPLE ID 8765-3**

MITKEM SAMPLE ID#61787-3

Gravel	0.00%
Course Sand	0.00%
Medium Sand	14.96%
Fine Sand	79.99%
Silt size, 0.074 to 0.005 mm	4.43%
Clay size, smaller than 0.005 mm	0.62%
Colloids, smaller than 0.001 mm	0.00%

PARTICLE SIZE

ASTM METHOD D422 RIAL SAMPLE ID 8765-4

MITKEM SAMPLE ID#61787-4

Gravel	0.00%
Course Sand	0.00%
Medium Sand	0.91%
Fine Sand	91.01%
Silt size, 0.074 to 0.005 mm	7.22%
Clay size, smaller than 0.005 mm	0.86%
Colloids, smaller than 0.001 mm	0.00%

PARTICLE SIZE

ASTM METHOD D422 RIAL SAMPLE ID 8765-5

MITKEM SAMPLE ID#61787-5

Gravel	0.00%
Course Sand	0.00%
Medium Sand	6.13%
Fine Sand	86.78%
Silt size, 0.074 to 0.005 mm	6.29%
Clay size, smaller than 0.005 mm	0.80%
Colloids, smaller than 0.001 mm	0.00%

R.I. Analytical

Specialists in Environmental Services

CERTIFICATE OF ANALYSIS

Mitkem Corporation
Attn: Data Reporting
175 Metro Center Blvd.
Warwick, RI 02886-1755

Date Received: 9/15/99
Date Reported: 10/06/99
P.O. #: 9961787A
Work Order #: 9909-08765

DESCRIPTION: PROJECT #61787 (FIVE SOIL SAMPLES)

Subject sample(s) has/have been analyzed by our laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies. The specific methodologies are listed in the methods column of the Certificate Of Analysis.

If you have any questions regarding this work, or if we may be of further assistance, please contact us.

Approved by:

James E. Mitch
Vice President

enc: Chain of Custody

Michael J. Hobin
Quality Control Coordinator

41 Illinois Avenue, Warwick, RI 02888
Tel: (401) 737-8500 Fax: (401) 738-1970

950 Boylston Street, Unit 102, Newton Highlands, MA 02461
Tel: (617) 965-5133 Fax: (617) 965-5624

Last Page of Data Report

GROUNDWATER EXTRACTION AND TREATMENT SYSTEM DESIGN REPORT

FRANKLIN CLEANERS SITE

Village of Hempstead
Nassau County, New York
(Site Registry No. 1-30-050)

WORK ASSIGNMENT NO. D003600-10

Prepared For

New York State Department of Environmental Conservation

DECEMBER 2000

DVIRKA AND BARTILUCCI
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

RLA/FRAN1640(12/26/00)

DVIRKA AND BARTILUCCI

DRILLING LOG

DRILLING CONTRACTOR	
Driller	Burch #1/UniTech
Inspector	Wayne Mann
Rig Type	CME-85 Drill Rig
Drilling Method	Auger/Split Spoon
Drive Hammer Weight	
PROJECT NAME	Franklin Clearers
PROJECT #	1640
Location/Address	Pole 216 southern State Parkway
BORING NUMBER	PTMW-1
Sheet	1 of 4
Boring Location	17.5 Ft East of pole 216

GROUNDWATER OBSERVATIONS			
Water Level	23'		
Time			
Date	9/13		
Casing Depth	93'		

Weather: Clear, low 80's
Date/Time Start: 9/13/99 11:00
Date/Time Finish: 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-2	S-1		0.0	0-2 Organic material mixed with Medium & To coarse SAND		
Recovery	24"	Hand dig				
4-6	S-1		0.0	4-6 Tan Brown Fine to Coarse SAND, little small rounded Gravel. Poorly sorted		
Recovery	3"					
Hammer	3,9,14,12					
9-11			0.0	9-10 Tan Brown Medium to Coarse SAND, little (+) small rounded Gravel		
Recovery	2"			10-11 Tan Fine to Medium SAND		
Blows	4,8,11					
14-16			0.0	14-16 Tan Brown Medium to Coarse SAND, Trace (+) Small rounded Gravel		
Recovery	14"					
Blows	5,5,7					
19-21			0.0	19-21 Tan/light Brown Fine to Coarse SAND, Trace (-) small/fine rounded Gravel, Medium Dense		
Recovery	14"					
Blows	7,13,20					
24-26			0.0	24-26 Tan/light Brown medium dense Fine to Coarse SAND, Trace (-) small rounded Gravel Moist		Water Table @ ± 23 ft.
Recovery	20"					
Blows	5,13,12					
29-31			0.0	29-31 Tan/light Brown mediumdense Fine to Coarse SAND Trace Small/fine rounded Gravel Moist		
Recovery	20"					
Blows	10,14,11					
34-36			0.0	34-36 Tan/light Brown medium Dense fine to coarse SAND Trace (+) small rounded Gravel Moist.		
Recovery	24"					
Blows	8,13,15					
39-41			0.0	39-41 Tan/light Brown medium Dense fine to coarse SAND Trace (+) small rounded Gravel		
Recovery	23"					
Blows	10,13,11					
44-46			0.0	44-46 Same		
Recovery	24"					
Blows	5,7,11,12					

SPT - STANDARD PENETRATION TEST

Soil Stratigraphy Summary

DYNKA
AND
BARTILUCCI

DRILLING LOG

DRILLING CONTRACTOR
Driller Butch H, Uaj Tech
Inspector Wayne Mann
Rig Type CME-85 Drill Rig
Drilling Method Auger/Split Spoon
Drive Hammer Weight

PROJECT NAME Franklin Cleaners
PROJECT # 1640
Location/Address Pole 216 Southern State Parkway

BORING NUMBER PTMW-1
Sheet 2 of 4
Boring Location 175 ft east of pole 216

GROUNDWATER OBSERVATIONS

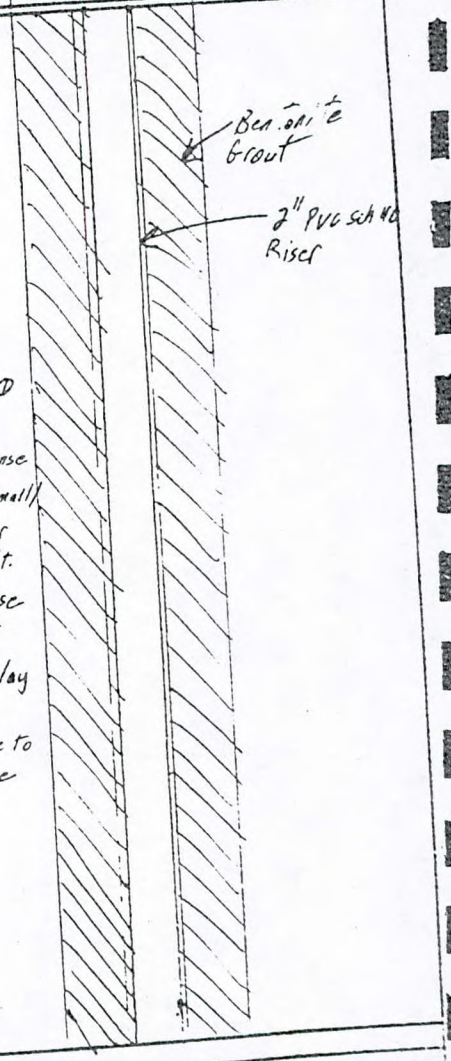
Water Level	23'		
Time			
Date	9/13/99		
Casing Depth	93'		

Weather Clear low 80's
Date/Time Start 9/13/99 11:00
Date/Time Finish 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL
49-51			0.0	Tan/Light Brown Dense Medium to Coarse SAND Trace small rounded Gravel
recovery	18"			
Blows	9,20,21,27			
51-53			0.0	Same
recovery	20"			
Blows	17,20,22,27			
53-55				53-55 Same
recovery	24"			
Blows	23,14,14,8			
55-57				55-57 Sample Washed out Light Brown fine to coarse SAND
recovery	4"			
Blows	14,7,8,9			
57-59				57-59 Tan/Orange Brown medium Dense Fine to Coarse SAND, Trace small/ Fine rounded Gravel. 1" layer of Gray Silty Clay in tip @ 59ft.
recovery	24"			
Blows	11,15,15,17			
59-61				59-61 Tan/Orange Brown medium Dense Fine to Coarse SAND Trace small rounded Gravel 2" thick layer of Gray sandy clay @ 60 ft.
recovery	20"			
Blows	9,8,17,15			
61-63				61-63 Tan/Orange Brown Dense Fine to Coarse SAND Trace Small/Fine rounded Gravel.
recovery	21"			
Blows	13,25,31,26			
62-64				62-64 Same
recovery	18"			
Blows	26,17,19,21			
64-66				64-66 Same
recovery	14"			
Blows	4,9,15,17			

WELL SCHEMATIC



COMMENTS

2" Diameter Summary

DVIRKA AND BARTILUCCI

DRILLING LOG

BORING NUMBER PTMW-1
Sheet 3 of 4

DRILLING CONTRACTOR
Driller Butch H / Mai Tech
Inspector Wayne Mann
Rig Type CME-85 Drill Rig
Drilling Method Auger / Split Spoon
Drive Hammer Weight

PROJECT NAME Franklin Clearers
PROJECT # 1640
Location/Address Pole 216 Southern State Parkway

Boring Location 17.5ft east of Pole 216

GROUNDWATER OBSERVATIONS
Water Level 23'
Time
Date 9/14/99
Casing Depth 93'

Weather Clear low 80's
Date/Time Start 9/13/99 11:00
Date/Time Finish 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
66-68			0.0	66-67 Tan Brown dense fine to coarse SAND, Trace(-) Gravel		
recovery 18"						
Blows 9,14,18,22				67-68 Gray Fine SAND little (+) Silty, Sandy Clay high mica content		
68-70			0.0	68-70 Gray Fine to medium SAND little (+) Silty Sandy Clay. Organic material visible in striation in 2" intervals @ 68 & 69 ft. High mica content.		Bentonite Grout
recovery 12"						
Blows 7,10,14,18						
70-72			0.0	70-72 Gray Dense Fine to medium SAND high Mica Content, very fine sand.		2" pvc riser
recovery 9"						
Blows 21,27,31,28						
72-74			0.0	72-74 Gray Dense Fine to medium SAND high Mica content. 4" Gray Sandy Clay @ 72 ft.		Sample collected for grainsize analysis PTMW-1(74-76) 9/14/99 07:50
recovery 16"						
Blows 4,9,13,11						
74-76			0.0	74-76 Top 8" Gray Sandy Clay. Black striations, high Sand content little plastic. Bottom 6" Gray Dense Fine to Medium SAND, little (+) Silty sand.		
recovery 14"						
Blows 5,10,13,12						
76-78			0.0	76-78 Gray Dense Fine to medium SAND little (-) gray silt. 1" interval Gray Sandy Clay @ 78'		Sample collected for grain size analysis PTMW-1(76-78) 9/14/99 07:50
recovery ~~12"~~ 14"						
Blows ~~10,10,19,21~~ 5,9,23,37						
78-80				78-80 Dark Gray Dense Fine to medium SAND little (-) gray silt.		
recovery 14"						
Blows 5,9,23,37						
80-82				80-82 Refusal @ 80'11" Gray Dense Fine to Coarse SAND.		
recovery 10"						
Blows 29,50/5						
82-84				82-84 Gray Dense Fine to Medium SAND high Mica Content. Black 2" layer @ 84' organic matter.		Sample collected for grain size analysis PTMW-1(82-84) 9/14/99 09:10
recovery 14"						
Blows 6,14,26,47						

Soil Stratigraphy Summary

DVIRKA AND BARTILUCCI

DRILLING LOG

BORING NUMBER PTMW-1
Sheet 4 of 4

DRILLING CONTRACTOR
Driller Butch H / Maj Tech
Inspector Wayne Mann
Rig Type CME-75 Drill Rig
Drilling Method Auger / Split spoon
Drive Hammer Weight

PROJECT NAME Franklin Cleaners
PROJECT # 1640
Location/Address Pole 216 Southern State Parkway

Boring Location 12.5 Ft East of pole 216

GROUNDWATER OBSERVATIONS

Water Level	73'		
Time			
Date	9/14/99		
Casing Depth	93'		

Weather Clear low 80's
Date/Time Start 9/13/99 11:00
Date/Time Finish 9/14/99 18:30

Plot Plan

Sample Depth	Sample Number	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
84-86				84-86 Gray Dense Fine to Medium SAND little(-) silt with black striations		
recovery 13"						
Blows 8,21,31 35						
86-88				86-88 Refusal @ 86'11" Gray Dense Fine to Medium SAND little(-) Silt. Powder like. High Mica content.		Sample collected for grainsize analysis PTMW-1(86-88) 9/14/99 09:30
recovery 12"						
Blows 25, 50/5						
88-90				88-90 Gray Dense Fine to Medium SAND little(-) Silt. High Mica content. high percentage Fine SAND.		
recovery 16"						
Blow 9,16, 34,34						
90-92				90-92 Dark Gray Dense to Fine to Medium SAND little(-) Silt		2" PVC Screen #10 slot Sample collected for grain-analysis PTMW-1(90-92) 9/14/99 10:15
recovery 22"						
Blows 23,23,25,27						
92-94				92-94 Dark Gray Dense Fine to Medium SAND, little(-) Silt. Bottom 3" brownish tan fine Sand.		93 ft below Grade
recovery 21"						
Blows 11,12 6,10						
94-96				94-95.2ft Brownish Gray medium Dense Fine to medium SAND. followed 1" interval lignite.		Gravel pack
recovery						6" Borehole
Blows 8,9,7,12						
				95.3-96 9" Dark Dense Gray/Black Silty Clay, little moisture		95.3 Opening into Clay filled with Bentonite water mix.
						Bentonite grout mix
96-98				96-98 Dark Dense Gray/Black Silty Clay. Clay appears competent: dry		
recovery 17"						
Blows 18,21,19,12						
98-100				98-100 Dark Gray/Black Dense Silty Clay. no moisture. Gray Sand/Silt striations approx 1/8 inch thick		
recovery 24"						
Blows 16,22,32,38						
				Boring Terminated. Clay layer filled w/ Bentonite mix. borehole flushed to remove Bentonite/mud mix 2 ft gravel pack above clay then well installed		

Soil Stratasphere Summary

DVIRKA AND BARTILUCCI

DRILLING LOG

BORING NUMBER PTMW-2
Sheet 1 of ____

DRILLING CONTRACTOR
Driller Joe Jester / Uaj Tech
Inspector Wayne M.
Rig Type CME-85
Drilling Method Mud Rotary
Drive Hammer Weight ____

PROJECT NAME Franklin Cleaners
PROJECT # 1640-2
Location/Address Pole 216 Southern State Parkway

Boring Location 22 ft west of Pole 216

GROUNDWATER OBSERVATIONS

Water Level	23'		
Time			
Date			
Casing Depth			

Weather Clear Cool ≈ 60°F
Date/Time Start 10/11/99 12:00
Date/Time Finish 10/11/99 6:10

Plot Plan ↑N
East bound Southern State Parkway
PTMW-2 PTMW-1
Treeline Pole 216

Sample Depth	Sample Type	SPT	PID/FID Reading	FIELD IDENTIFICATION OF MATERIAL	WELL SCHEMATIC	COMMENTS
0-2	S		0.0	0-2 Organic material to .5' loose Medium to Coarse SAND to 2ft		
recovery none		head dig				
2-4			0.0	Loose Medium to Coarse SAND tan light brown in color. no odor		
Head dig						
				Begin collecting spoons @ 82'		2" PVC screen #10
82-84	S			Dense Gray, Fine to Medium SAND, Trace (+) Silty Sand no oder no staining		
recovery = 16"						
Blows	12, 20, 37, 25					
84-86	S		0.0	Gray fine SAND, little (+) Silty Sand, Trace (+) Silty Clay no odor		Gravel Pack Hole to 87'
recovery 18"						
Blows	7, 18, 25, 33					
86-88	S		0.0	Gray fine to Medium SAND little (-) silty SAND. 2" layer dark ~~clay~~ gray clay @ 87.5' no odor		
recovery 16"						
Blows	21, 29, 33, 30					
88-90	S		0.0	Gray fine to Medium SAND little (-) Silty SAND. 5" Tannish brown Coarse Gravely SAND @ 89.5		
recovery 21"						
Blows	16, 27, 32, 37					
90-92	S		0.0	Gray fine to Medium SAND little (-) Silty SAND 1" layer/lense of dark gray Sandy Clay no odor		
recovery 10"						
Blows				End of Boring		

S = Split Spoon W = Wash

Soil Stratigraphy Summary

DRILLCON.PM4

FAX TRANSMITTAL

URS
201 Willowbrook Boulevard
mailing address:
P.O. Box 290
Wayne, New Jersey 07470-0290
Telephone: (973) 785-0700
Fax: (973) 785-0023

DATE: 5/29/03

RECEIVED
MAY 29 2003

PAGE 1 OF: 10

TO:	**Jeff Trad**	FROM:	**Joel Siegel**
FIRM:	**NYSDEC**	SUBJECT:	**Franklin Cleaners EW-2 Log**
FAX NO:	**518.402.9819**	CC:	

REMARKS: ☐ Urgent ☐ For your review ☐ Reply ASAP ☐ Please Comment

MEMO:

Jeff,

This is the log for Extraction Well # 2 at Franklin Cleaners, (Molloy College) Site.

This is my draft, but no significant changers will be made to descriptions.

FYI, the sample 80-82' was not analyzed for grain size because it was clay. They had the sample, it was their decision not to run it. It corresponds with my log description as well.

If you have any questions, don't hesitate to call me at 973.785.0700 ext.212

Joel Siegel

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URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

SHEET 1 of 9

PROJECT NAME/NUMBER / LOCATION: Franklin Cleaners-Molloy College		DATE STARTED: 05/16/2003	DATE COMPLETED:
DRILLING CONTRACTOR: Delta Well and Pump	FOREMAN: Mike	GROUND ELEVATION (FT. MSL):	WATER DEPTH (FT BGS):
DRILLING EQUIPMENT: Failing F-10 rig		COMPLETION DEPTH (FT BGS):	ROCK DEPTH (FT BGS): NA
TYPE BIT: 3.25" Hollow Stem Augers	SIZE AND TYPE CORE BARREL: NA	COMPLETION METHOD:	
CASING: NA		SOIL SAMPLES: DIST. UNDIST. CORE	
CASING HAMMER / WEIGHT	DROP: NA	ENV. SAMPLES:	
SAMPLER: 2-inch OD Split Spoons		BORING LOCATION: Shoulder of eastbound Southern State Pkwy	
SAMPLER HAMMER: WEIGHT 140 lb	DROP 30 inches	INSPECTOR: Joel Siegel	

DESCRIPTION	Sample Interval	Depth (FT BGS)	Water Table	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	PID (HNU)/ FID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Date Time	REMARKS
Sample every 10 feet to 80, the continuous to clay or 100.		0											Pilot boring for EW-2
		1											
		2											All Samples recorded PID reading of 0 ppm.
Being sampling 10-12' interval		3											
		4											
		5											
		6											
		7											
		8											
		9											
		10											

DRAFT

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Samples: Recov. %	Samples: Penetr. Resist. BL/6in	Samples: Time	HNU / PID READINGS (PPM): Sample	HNU / PID READINGS (PPM): Ambient Air	HNU / PID READINGS (PPM): Time	HNU / PID READINGS (PPM): Head Space	HNU / PID READINGS (PPM): Date Time	REMARKS
Orange medium to coarse SAND, some fine gravel		11		1	60.0	8 18 21 32	10:00	0.0	0.0				Moist
Orange medium - coarse SAND and fine - medium GRAVEL Medium SAND bottom 3 inches		21		2	100.0	7 8 8 9	10:15	0.0	0.0				Wet

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Samples: Recov. (ft)	Samples: Penetr. Resist. BL/6in	Samples: Time	HNU / PID READINGS (PPM): Sample	HNU / PID READINGS (PPM): Ambient Air	HNU / PID READINGS (PPM): Time	HNU / PID READINGS (PPM): Head Space	HNU / PID READINGS (PPM): Date Time	REMARKS
		25											
		26											
		27											
		28											
		29											
		30											
		31				6 5							
Orange medium SAND, some coarse sand, some fine - medium gravel		32		3	100.0	6 10	10:30	0.0	0.0				Wet
		33											
		34											
		35											
		36											
		37											
		38											

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Sample Interval	Depth (ft bgs)	Trailer Tank	Samples: Number	Samples: Recov. (ft)	Samples: Penetr. Resist. BL/6in	Samples: Time	HNU / PID READINGS (PPM): Sample	HNU / PID READINGS (PPM): Ambient Air	HNU / PID READINGS (PPM): Time	HNU / PID READINGS (PPM): Head Space	HNU / PID READINGS (PPM): Date Time	REMARKS
		39											
		40				10							
Orange medium SAND, some coarse Sand, some fine Gravel		41		4	100.0	11	10:45	0.0	0.0				Wet
		42				12 14							
		43											
		44											
		45											
		46											
		47											
		48											
		49											
		50				9							
Orange medium SAND, some coarse Sand, some fine Gravel		51		5	100.0	10 10		0.0	0.0				Wet
		52				12							

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Samples: Recov. (ft)	Samples: Penetr. Resist. BL/6in	Samples: Time	HNU / PID READINGS (PPM): Sample	HNU / PID READINGS (PPM): Ambient Air	HNU / PID READINGS (PPM): Time	HNU / PID READINGS (PPM): Head Space	HNU / PID READINGS (PPM): Date / Time	REMARKS
		53											
		54											
		55											
		56											
		57											
		58											
		59											
		60											
		61				11							
Grey Silty CLAY, dense. Medium plasticity				6	100.0	12	11:10	0.0	0.0				
		62				15							
						12							
		63											
		64											
		65											
		66											

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples: Number	Samples: Recov. (ft)	Samples: Penetr. Resist. Bl/6in	Samples: Time	HNU / PID READINGS (PPM): Sample	HNU / PID READINGS (PPM): Ambient Air	HNU / PID READINGS (PPM): Time	HNU / PID READINGS (PPM): Head Space	HNU / PID READINGS (PPM): Date Time	REMARKS
		67											
		68											
		69											
		70											
						8							
		71				9							
Grey CLAY, dense, some Silt Orange medium Sand at base (3")				7	100.0	11	11:35	0.0	0.0				
		72				14							
		73											
		74											
		75											
		76											
		77											
		78											
		79											
		80											

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Depth (ft bgs)	Samples Number	Samples Recov. (ft)	Samples Penetr. Resist. BL/6in	Samples Time	HNU / PID READINGS (PPM) Sample	Ambient Air	Time	Head Space	Date Time	REMARKS
Grey CLAY with 1"-2" Sand Lenses, some medium to fine Gravel	81 - 82	8	12.5	6 7 7 9	11:55	0.0	0.0				
One foot grey CLAY over one foot buff medium Sand and fine - medium Gravel. Sand is micaceous. Sharp contact.	83 - 84	9	100.0	7 8 10 11	12:50	0.0	0.0				Sharp contact between sand and clay
Grey fine - medium SAND with fine - medium Gravel	85 - 86	10	100.0	12 14 15 20	12:50	0.0	0.0				
Grey clean medium SAND to 86.5 feet. Sand then becomes gravelly with fine-medium-coarse Gravel	87 - 88	11	100.0	7 8 9 9	12:50	0.0	0.0				
Grey/Orange fine SAND, some Silt; with small (1") interbedded clay lenses in top 1 foot; 10" grey fine - medium sand, some silt; over 2" brown medium SAND	89 - 90	12	100.0	6 6 7 8	1:10	0.0	0.0				
8" brown sandy, silty CLAY over brown fine SAND, some silt, some black and orange laminations	91 - 92	13	100.0	5 7 6 5	1:17	0	0.0				
14" Orange fine SAND, some silt. Several small black sand laminae; over 3" grey fine silty SAND, micaceous; over 7" brown fine sand, some SILT	93 - 94	14	100.0	6 5 6 7		0.0	0.0				

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Level	Samples: Number	Recov. (ft)	Penetr. Resist. BL/6in	Time	HNU / PID READINGS (PPM): Sample	Ambient Air	Time	Head Space	Date Time	REMARKS
16" brown fine SAND, some Silt, tr clay over orange/brown medium sand		95 - 96		15	100.0	5 5 7 7	1:35	0.0	0.0				
7" brown medium SAND with silty clay laminae; over 8" grey medium, micaceous SAND		97 - 98		16	15"	8 10 10 15	1:45	0.0	0.0				
Grey/Orange fine - medium SAND, some Silt, micaceous. 1/2" Black lignite with clay and sand in tip of spoon.		99 - 100		17	80.0	8 8 9 9	1:50	0.0	0.0				
Brown medium SAND, micaceous, over 7" black/grey fine - medium SAND with SILT.		101 - 102		18	100.0	10 11 14 18	2:38	0.0	0.0				Decision made by D&B to drill to 110'
Brown medium SAND over 7" grey medium SAND, micaceous		103 - 104		19	100.0	6 8 10 10	2:50	0.0	0.0				
Grey medium SAND, micaceous, some orange medium SAND at base		105 - 106		20	80.0	10 9 14 18		0.0	0.0				
Buff medium SAND, micaceous		107 - 108		21	100.0	10 12 12 15	3:05	0.0	0.0				

URS Corporation

LOG OF BORING EW-2 (Pilot Boring)

DESCRIPTION	Sample Interval	Depth (ft bgs)	Water Table	Samples Number	Recov. (ft)	Penetr. Resist. Bl/6in	Time	HNU / PID READINGS (PPM) Sample	Ambient Air	Time	Head Space	Date Time	REMARKS
		109				8							
Brown, medium SAND, over7" grey/black fine, silty SAND, some Clay				22	100.0	10	3:07	0.0	0.0				
		110				8							End boring at 110'.
		111				10							
		112											
		113											
		114											
		115											
		116											
		117											
		118											
		119											
		120											
		121											
		122											

URS

Facsimile

Date: Jun 30 Page 1 of: 6

To: Jeff Trad From: Kent Sullivan

Firm: cc:

Facsimile:

Subject: well development admixture

Message:

URS Corporation
Remediation Operating Services
201 Willowbrook Blvd.
P.O. Box 290
Wayne, NJ 07474-0290
Tel: 973.785.0700
Fax: 973.785.1956
www.urscorp.com

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CETCO
COLLOID ENVIRONMENTAL TECHNOLOGIES COMPANY
1350 West Shure Drive • Arlington Heights, IL 60005-1440 • USA
(847) 392-5800 • Fax (847) 506-6150

John Berry 847-910-4334

MATERIAL SAFETY DATA SHEET May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

62521 / 62521

PRODUCT NAME: BMR

Section I MANUFACTURER'S INFORMATION

Manufacturer's Name & Address.

CETCO
1350 West Shure Drive
Arlington Heights, Illinois 60004

Telephone Number for Information: 847-392-5800
EMERGENCY CONTACT: CHEMTREC 800-424-9300
Date Prepared: April 28, 1997

Section II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Inorganic Acid Salt CAS# 100-34-88-5	Not Established			1-5 %
Dinonylphenoxypoly (ethyleneoxy) Ethanol	Not Established			

PRODUCT IDENTIFICATION

Chemical Family: Acid Sulfate
FORMULA: Complex Mixture
NFPA/HMIS: Health - 2, Fire - 0, Reactivity - 0, Specific Hazard - See Section VI
DOT Class: Not Regulated

Section III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	- Not Applicable	Specific Gravity (H_2O = 1)	- Not Available
Vapor Pressure (mm Hg.)	- Not Applicable	Melting Point	- Not Determined
Vapor Density (AIR = 1)	- Not Applicable	Evaporation Rate (Butyl Acetate = 1)	- Not Applicable
Solubility in Water	- Soluble		
Appearance and Odor	- Odorless white powder.		

Section IV FIRE AND EXPLOSION HAZARD DATA

At temperatures over 570°F, hazardous fumes of sulfur dioxide and sulfur trioxide are evolved. Must be eliminated by forced draft ventilation or requires gas mask. Forms sulfuric acid solution when dissolved in water.

CETCO

PRODUCT NAME: BMR

Section V REACTIVITY DATA

Stability: Unstable - ; Stable - X

Conditions to Avoid - Avoid moisture in storage areas. Keep dry.

Incompatibility (Materials to Avoid) - Should not be mixed with strong alkaline (caustic) material.

Hazardous Decomposition or By-products - None unless heated over 570°F. at which sulfur dioxide and sulfur trioxide are formed.

Hazardous Polymerization: May Occur - ; Will Not Occur - X

Conditions to Avoid - None Known

Section VI HEALTH HAZARD DATA

Route(s) of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic): See sections below.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure: May cause irritation or burns to skin, eyes, and/or respiratory tract.

Medical Conditions Generally Aggravated by Exposure: None known.

Emergency and First Aid Procedures:

Eyes: Immediately flush with plenty of water for at least 15 min. holding eyelids apart to ensure flushing of the entire eye. Seek prompt medical attention.

Skin: Immediately flush with plenty of water for at least 15 min. Remove contaminated clothing and wash before reuse. If burns occur, get medical attention.

Inhalation: Move to fresh air location. If irritation or discomfort persists, get medical attention.

Ingestion: Do not induce vomiting. Drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs, or vegetable oil. Get medical attention immediately.

Section VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled:

Pick up as much as possible with shovel, then neutralize balance of spill with alkaline solution such as soda ash, lime, or baking soda. After neutralization, wash down to sewer only if federal, state and local regulations permit. Otherwise, contain properly for collection or disposal.

Waste Disposal Method: Dispose at authorized chemical dump complying with all federal, state and local regulations.

Precautions to Be Taken in Handling and Storing:

Use good housekeeping. Do not store where exposed to moist conditions. Do not store near strong alkalis.

Other Precautions: Personnel handling this product should be aware of the nearest eye wash safety shower location.

CETCO

PRODUCT NAME: BMR

Section VII CONTROL MEASURES

Respiratory Protection (Specify Type)	- Use NIOSH approved respirator, when exposed to dust			
Ventilation	- Local Exhaust	- Use to minimize dust exposure	Special	- Not Applicable
	- Mechanical (General)	- Fans	Other	- None
Protective Gloves	- Rubber			
Eye Protection	- Safety glasses or full face shield			
Other Protective Clothing or Equipment	- Clothes should completely cover skin to avoid contact.			
Work/Hygienic Practices	- Use appropriate hygienic practice: wash or rinse hands after contact.			
Handling and Storage	- Do not store where exposed to moist conditions. Do not store near strong alkalis.			

Section IX REGULATORY INFORMATION

Not reportable under SARA, Title III, Sec. 313 and 40 CFR 372 (Form R).

The information herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, CETCO cannot give any guarantees regarding information from other sources, and expressly does not make any warranties nor assumes any liability, for its use.

CETCO DRILLING PRODUCTS GROUP

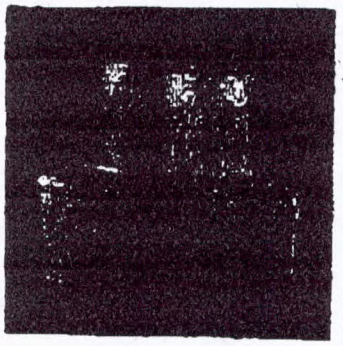
drilling fluids • grouts & sealants • polymers & additives • well rehabilitation chemicals

Technical Data

BMR™

Bentonite Mud Remover

NSF



Description: **A non-phosphate granular product, BMR™ is certified by NSF International.** BMR™ is certified to ANSI/NSF Standard 60, Drinking Water Treatment Chemicals - Health Effects.

Recommended Use: BMR™ removes bentonite that has been introduced as a drilling fluid and results in a tough layer of mud sometimes difficult to remove. Additionally, BMR™ removes naturally occurring clays that intrude into the gravel pack.

Characteristics:

- Has the ability to separate and disperse clay particles.
- Decreases development time and cost.
- Increases well productivity.
- Contains no phosphates.

Directions for Use:

1. Calculate quantity of BMR™ required according to the Dosage Table. Normal dosage is 1/3 lb. per gallon of water. If gravel pack is present, the volume of water in it should be accounted for as part of the total well volume (typical porosity of gravel pack is 30-40%).
2. Mix one part BMR™ to four parts water prior to pouring down casing. This helps the BMR™ dissolve thoroughly. Agitate the well lightly, and add water to force the BMR™ deeper into the gravel pack and formation.
3. Agitate the well as often as possible for a minimum of 12 hours (well size and severity of blockage may increase or decrease agitation time). Agitate by surging, bailing, pumping or jetting.
4. Pump the well a minimum of nine (9) full well volumes to effectively remove residual chemical and suspended clay particles.
5. (Optional) Chlorinate the well with a shock treatment of sodium hypochlorite to 500-1000 ppm. Pump the well until free of chlorine.

1500 West Shure Drive • Arlington Heights, IL 60004 • PH 847.392.5800 • FX 847.506.6150

BMR™
Dosage Table
(5% solution):

Well Diameter	Pounds of BMR™ per 10 Feet of Water
2"	1/2 lbs.
4"	2 lbs.
6"	4 lbs.
8"	7 lbs.
10"	10 lbs.
12"	15 lbs.
14"	20 lbs.
16"	26 lbs.
18"	33 lbs.
20"	41 lbs.

Packaging: 50 lb. plastic pails. Keep container closed to prevent caking.

1500 West Shure Drive • Arlington Heights, IL 60004 • PH 847.392.5800 • FX 847.506.6150

Case Narrative

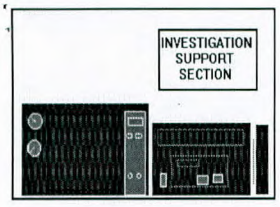
Site Name: Franklin Cleaners Date received: 05/25/04

For sample delivery group(s): 146-01

The calibration verification that these samples were run under had three analytes - Methylene Chloride, tert-Butylbenzene, and Pentachloroethane - fall out of the acceptable deviation range stated in this method. None of these analytes were detected in the samples run under this calibration verification.

All other QA/QC associated with these samples were within acceptable method criteria.

Carbon dioxide was reported as a TIC in all of the samples - this is a lab contaminant and should be disregarded. It is reported because the method requires it and would be qualified with a 'B' if it were a target analyte.



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 5-7 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-001

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0384.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 5-7 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-001

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0384.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

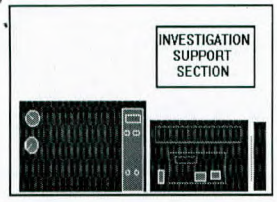
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000064-17-5	Carbon Dioxide	3.60	0.5	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF ENVIRONMENTAL REMEDIATON

LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 5-10 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-002

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0385.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 5-10 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-002

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0385.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

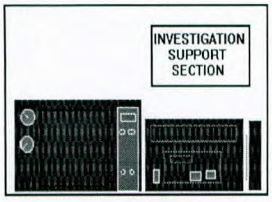
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.6	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF ENVIRONMENTAL REMEDIATON

LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 5- 20 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04

Sample wt/vol: 20.0 (g/ml) ML

GC Column: 624 ID: 0.25 (mm)

Lab Sample ID: 104-146-003

Lab File ID: 04A0386.D

Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 5- 20 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-003

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0386.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

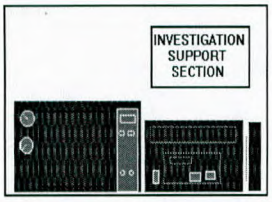
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.59	0.6	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 4 -7 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-004

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0387.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	0.8	J
71-55-6	1,1,1-Trichloroethane	0.6	J
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 4 -7 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-004

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0387.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

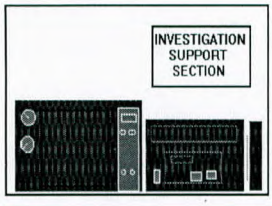
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.6	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF ENVIRONMENTAL REMEDIATON

LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 4-10 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04

Sample wt/vol: 20.0 (g/ml) ML

GC Column: 624 ID: 0.25 (mm)

Lab Sample ID: 104-146-005

Lab File ID: 04A0388.D

Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	0.5	J
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	0.7	J
71-55-6	1,1,1-Trichloroethane	0.5	J
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 4-10 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-005

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0388.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

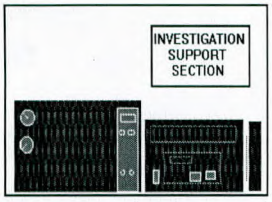
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.4	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASW 4 -20 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04

Sample wt/vol: 20.0 (g/ml) ML

GC Column: 624 ID: 0.25 (mm)

Lab Sample ID: 104-146-006

Lab File ID: 04A0389.D

Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	0.5	J
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	0.7	J
71-55-6	1,1,1-Trichloroethane	0.5	J
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASW 4 -20 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-006

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0389.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.6	JN

edoc

DATA PACKAGE FOR VOLATILE ORGANICS

PROJECT NAME: Franklin Cleaners

URS CORP.
201 WILLOWBROOK BLVD.
WAYNE, NJ 07470
9737850700

CHEMTECH PROJECT NO. **S2738**
ATTENTION: **Bjorn Cuento**

CHEMTECH

284 Sheffield Street, Mountainside NJ 07092
Tel: 908-789-8900 Fax 908-789-8922

COVER PAGE

ProjectID: Franklin Cleaners

OrderID: S2738 **CustomerName:** URS Corp.

LAB SAMPLE NO.	CLIENT SAMPLE NO
S2738-01	FC-ASMW-1-05-RE
S2738-02	FC-ASMW-1-05-FR
S2738-03	FC-ASMW-2-05-RE
S2738-04	FC-ASMW-2-05-XX
S2738-05	FC-ASMW-3-05-RE
S2738-06	FC-ASMW-4-05-RE
S2738-07	FC-ASMW-5-05-RE
S2738-08	FC-BL-05-TB

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature: _____ Name: Deepa Shetty

Date: 6/8/04 Title: QA/QC

CASE NARRATIVE

URS Corp.
Project Name: Franklin Cleaners
Project #: 807260
Chemtech Project # S2738

A. Number of Samples and Date of Receipt
7 Water Samples and 1 Trip Blank were delivered to the laboratory intact on 05/20/04.

B. Parameters
Test requested on the Chain of Custody was Volatile Organic. This data package contains results for Volatile Organic.

C. Analytical Techniques:
The analysis of Volatile Organic is based on OLM04.2 method. The samples were analyzed on instruments MSVOA H using GC Column RTX624 which is 75 meters, 0.53 mm ID, 3.0 um df, Catalog # 10974. The Purge Trap was supplied by Supelco, VO CARB 3000, Tekmar 3000.

D. QA/ QC Samples:
System Monitoring Compound recoveries met QC. MS recoveries met requirements. MSD recoveries met requirements except for Benzene, Trichloroethene and Chlorobenzene. RPDs met requirements except for Trichloroethene. Blank Spike met requirements. Holding Times met requirements. Tuning Checks met requirements. Calibrations met requirements. Internal Standard Areas met requirements. Retention Times were acceptable. Blank analysis did not indicate the presence of contamination.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature _____ Name: Krupa Dubey

Date: 6/8/04 Title: QA/QC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-1-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052729.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichlorotrifluoroethan	10	U
75-35-4	1,1-Dichloroethene	1.4	J
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
110-82-7	Cyclohexane	10	U
78-93-3	2-Butanone	50	U
56-23-5	Carbon Tetrachloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	3.5	J
71-55-6	1,1,1-Trichloroethane	1.7	J
108-87-2	Methylcyclohexane	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	10	U
10061-02-6	t-1,3-Dichloropropene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-1-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-01

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052729.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-93-4	1,2-Dibromoethane	10	U
127-18-4	Tetrachloroethene	6.8	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
136777-61-2	m/p-Xylenes	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-1-05-FR

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052730.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichlorotrifluoroethan	10	U
75-35-4	1,1-Dichloroethene	1.1	J
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
110-82-7	Cyclohexane	10	U
78-93-3	2-Butanone	50	U
56-23-5	Carbon Tetrachloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	3.2	J
71-55-6	1,1,1-Trichloroethane	1.7	J
108-87-2	Methylcyclohexane	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	10	U
10061-02-6	t-1,3-Dichloropropene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-1-05-FR

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-02

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052730.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-93-4	1,2-Dibromoethane	10	U
127-18-4	Tetrachloroethene	6.9	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
136777-61-2	m/p-Xylenes	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-2-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-03

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052731.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichlorotrifluoroethan	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
110-82-7	Cyclohexane	10	U
78-93-3	2-Butanone	50	U
56-23-5	Carbon Tetrachloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
108-87-2	Methylcyclohexane	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	10	U
10061-02-6	t-1,3-Dichloropropene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-2-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-03

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052731.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-93-4	1,2-Dibromoethane	10	U
127-18-4	Tetrachloroethene	42	
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
136777-61-2	m/p-Xylenes	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-3-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-05

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052713.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/27/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichlorotrifluoroethan	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
110-82-7	Cyclohexane	10	U
78-93-3	2-Butanone	50	U
56-23-5	Carbon Tetrachloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
108-87-2	Methylcyclohexane	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	10	U
10061-02-6	t-1,3-Dichloropropene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-3-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-05

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052713.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/27/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-93-4	1,2-Dibromoethane	10	U
127-18-4	Tetrachloroethene	1.9	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
136777-61-2	m/p-Xylenes	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-4-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-06

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052714.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/27/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichlorotrifluoroethan	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
110-82-7	Cyclohexane	10	U
78-93-3	2-Butanone	50	U
56-23-5	Carbon Tetrachloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
108-87-2	Methylcyclohexane	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	10	U
10061-02-6	t-1,3-Dichloropropene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-4-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-06

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052714.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/27/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-93-4	1,2-Dibromoethane	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
136777-61-2	m/p-Xylenes	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-5-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-07

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052733.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
76-13-1	1,1,2-Trichlorotrifluoroethan	10	U
75-35-4	1,1-Dichloroethene	10	U
67-64-1	Acetone	14	J
75-15-0	Carbon disulfide	10	U
1634-04-4	Methyl tert-butyl Ether	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
110-82-7	Cyclohexane	10	U
78-93-3	2-Butanone	50	U
56-23-5	Carbon Tetrachloride	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
108-87-2	Methylcyclohexane	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U
79-01-6	Trichloroethene	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
108-10-1	4-Methyl-2-Pentanone	50	U
108-88-3	Toluene	10	U
10061-02-6	t-1,3-Dichloropropene	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	10	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FC-ASMW-5-05-RE

Lab Name: Chemtech Consulting Group Contract: URSG01

Lab Code: CTECH Case No.: S2738 SAS No.: S2738 SDG No.: S2738

Matrix (soil/water): WATER Lab Sample ID: S2738-07

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: VH052733.D

Level (low/med): Date Received: 5/26/04

% Moisture: not dec. 100 Date Analyzed: 5/28/04

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
106-93-4	1,2-Dibromoethane	10	U
127-18-4	Tetrachloroethene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
136777-61-2	m/p-Xylenes	10	U
95-47-6	o-Xylene	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. S2738
COC Number

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: URS CORPORATION
ADDRESS: 201 Willowbrook blvd
CITY: Wayne STATE: NJ ZIP: 07470
ATTENTION: BJORN CUENTO
PHONE: 973 812 6858 FAX: 973-785-1956

PROJECT INFORMATION

PROJECT NAME: FRANKLIN CLEANERS
PROJECT NO.: 807260 LOCATION: N.Y
PROJECT MANAGER: KEN SULLIVAN
e-mail: KENNETH_SULLIVAN@URSCORP.COM
PHONE: 973 812 6869 FAX: 973 785-1956

BILLING INFORMATION

BILL TO: URS PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: 14 DAYS *
HARD COPY: 14 DAYS *
EDD: 14 DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY ☐ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other
☐ EDD FORMAT

ANALYSIS

1 VOC OLM 04.2 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES A	1	2	3	4	5	6	7	8	9	COMMENTS
1. 1	FC-ASMW-1-05-RE	W		X	5-25-04	0915	3	X										
2. 2	FC-ASMW-1-05-FR	W		X	5-25-04	0920	3	X										
3. 3	FC-ASMW-2-05-RE	W		X	5-25-04	1055	3	X										
4. 4	FC-ASMW-2-05-XX	W		X	5-25-04	11:00	3	X										
5. 5	FC-ASMW-3-05-RE	W		X	5-25-04	11:40	3	X										
6. 6	FC-ASMW-4-05-RE	W		X	5-24-04	1300	3	X										
7. 7	FC-ASMW-5-05-RE	W		X	5-24-04	1020	3	X										
8. 8	FC-BL-05-TB	W		X	5-25-04	1400	3	X										
9.																		
10.																		

PRESERVATIVES: A–HCl B–HNO_3 C–H_2SO_4 D–NaOH E–ICE F–Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME 5-25-04 1400	RECEIVED BY: 1.
RELINQUISHED BY: 2.	DATE/TIME	RECEIVED BY: 2.
SHIPPED BY: FEDEX	DATE/TIME 5/26/04 930	RECEIVED FOR LAB BY: 3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☑ Cooler Temp. 4 ICE
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☑ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT
Shipment Complete: ☒ YES ☐ NO

230

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

50398

H2M GROUP

Memo

RECEIVED
JUN 23 2004

To: Steve Kristas, P.E.

From: Dennis M. Kelleher

CC: Anthony Iannone-Superintendent
Martha Krisel Esq.-Village Attorney
Jeff Trad NYSDEC

Date: June 17, 2004

Re: Franklin Cleaners Hazardous Waste Site

Mr. Kristas,

Please find attached the results from the over pumping test and subsequent sampling performed by the NYSDEC. The sample results are encouraging, as no Acetone was identified in either monitoring Well Nos. 4 and 5, (The monitoring wells immediately upstream from the Villages Plant No. 4). We have not received final sample results from the NYSDEC contractor who was responsible for the sampling of the wells with minimal pumping. These results have been verbally communicated to have shown small quantities of acetone. If this is confirmed, it is probable that the acetone is present in the well materials or introduced during the construction, and not in the aquifer.

Monitoring Well No. 4 showed minimal amounts of TCA, MTBE and Chloroform. We will continue to monitor these constituents.

In addition, as a reminder, the Village took samples from all wells at Plant No 4 as a precautionary measure and they tested negative for all VOC's, including acetone.

The next status report on the operation of the treatment system should be received shortly. We will review the report and summarize our findings to the Village.

The NYSDEC and the NYSDEC's consultant are working on locating a suitable spot for the installation of a second monitoring well pair to provide additional warning to the Village should the contaminant plume path change.

Should you have any questions feel free to contact this office.

Dennis M. Kelleher

Case Narrative

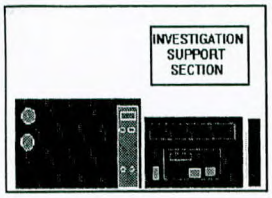
Site Name: Franklin Cleaners Date received: 05/25/04

For sample delivery group(s): 146-01

The calibration verification that these samples were run under had three analytes - Methylene Chloride, tert-Butylbenzene, and Pentachloroethane - fall out of the acceptable deviation range stated in this method. None of these analytes were detected in the samples run under this calibration verification.

All other QA/QC associated with these samples were within acceptable method criteria.

Carbon dioxide was reported as a TIC in all of the samples - this is a lab contaminant and should be disregarded. It is reported because the method requires it and would be qualified with a 'B' if it were a target analyte.



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF ENVIRONMENTAL REMEDIATON

LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 5-7 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-001

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0384.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 5-7 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-001

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0384.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

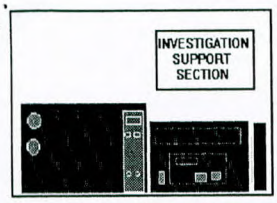
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000064-17-5	Carbon Dioxide	3.60	0.5	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 5-10 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-002

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0385.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 5-10 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-002

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0385.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

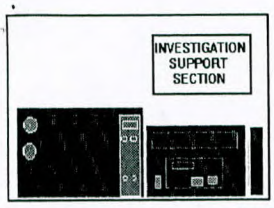
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.6	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF ENVIRONMENTAL REMEDIATON

LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 5- 20 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-003

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0386.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	1	U
71-55-6	1,1,1-Trichloroethane	1	U
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 5- 20 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050 SDG No.: 146-01

Matrix: (soil/water) WATER Lab Sample ID: 104-146-003

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0386.D

Level: (low/med) LOW Date Received: 05/25/04

% Moisture: not dec. _____ Date Analyzed: 05/27/04

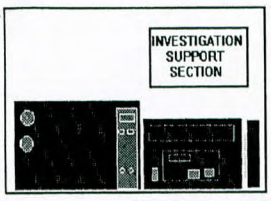
GC Column: 624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.59	0.6	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 4 -7 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-004

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0387.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	1	U
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	0.8	J
71-55-6	1,1,1-Trichloroethane	0.6	J
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 4 -7 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-004

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0387.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

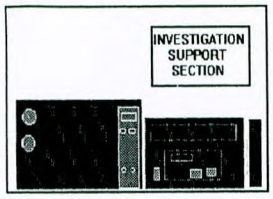
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.6	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATON
LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASMW 4-10 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-005

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0388.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	0.5	J
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	0.7	J
71-55-6	1,1,1-Trichloroethane	0.5	J
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASMW 4-10 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-005

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0388.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

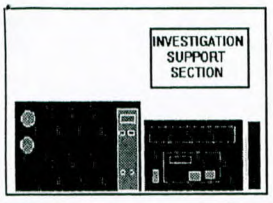
Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.4	JN



NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF ENVIRONMENTAL REMEDIATON

LABORATORY ANALYTICAL REPORT

ELAP LABORATORY ID NUMBER: 11625

EPA LABORATORY ID NUMBER: NY01358

VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD SAMPLE ID: **ASW 4 -20 WV'S**

Site Name: FRANKLIN CLEANERS

Site Code: 130050 Date Collected: 5/24/04 SDG No.: 146-01

Matrix: (soil/water) WATER Date Received: 05/25/04 Lab Sample ID: 104-146-006

Sample wt/vol: 20.0 (g/ml) ML Lab File ID: 04A0389.D

GC Column: 624 ID: 0.25 (mm) Date Analyzed: 05/27/04

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
75-71-8	Dichlorodifluoromethane	1	U
74-87-3	Chloromethane	1	U
75-01-4	Vinyl Chloride	1	U
74-83-9	Bromomethane	1	U
75-00-3	Chloroethane	1	U
75-69-4	Trichlorofluoromethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
69-29-7	Diethyl ether	1	U
75-35-4	1,1-Dichloroethene	1	U
67-64-1	Acetone	6	U
74-88-4	Iodomethane	1	U
75-15-0	Carbon disulfide	1	U
107-05-1	Allyl chloride	1	U
75-09-2	Methylene Chloride	2	U
156-60-5	trans-1,2-Dichloroethene	1	U
1634-04-4	Methyl-t-butyl ether	0.5	J
107-13-1	Acrylonitrile	12	U
75-34-3	1,1-Dichloroethane	1	U
590-20-7	2,2-Dichloropropane	6	U
78-93-3	2-Butanone	6	U
96-33-3	Methyl acrylate	12	U
107-12-0	Propionitrile	1	U
74-97-5	Bromochloromethane	1	U
109-99-9	Tetrahyrofuran	25	U
126-98-7	Methacrylonitrile	12	U
67-66-3	Chloroform	0.7	J
71-55-6	1,1,1-Trichloroethane	0.5	J
109-69-3	1-Chlorobutane	1	U
56-23-5	Carbon tetrachloride	1	U
563-58-6	1,1-Dichloropropene	6	U
71-43-2	Benzene	1	U
107-06-2	1,2-Dichloroethane	1	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
80-62-6	Methyl methacrylate	6	U
74-95-3	Dibromomethane	1	U
74-97-5	Bromodichloromethane	1	U
79-46-9	2-Nitropropane	12	U
107-14-2	Chloroacetonitrile	6	U
10061-01-5	cis-1,3-Dichloropropene	1	U
108-10-1	4-Methyl-2-pentanone	1	U
513-88-2	1,1-dichloropropanone	6	U

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg)	UG/L	Q
108-88-3	Toluene	1	U
97-63-2	Ethyl methacrylate	1	U
1006-02-6	trans-1,3-Dichloropropen	1	U
79-00-5	1,1,2-Trichloroethane	1	U
127-18-4	Tetrachloroethene	1	U
142-28-9	1,3-Dichloropropane	6	U
591-78-6	2-Hexanone	6	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1	U
10890-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
630-20-6	1,1,1,2-Tetrachloroethane	1	U
108-38-3	m,p-Xylene	1	U
95-47-6	o-Xylene	1	U
100-42-5	Styrene	1	U
75-25-2	Bromoform	1	U
98-82-8	Isopropylbenzene	1	U
79-34-5	1,1,2,2,-Tetrachloroethan	1	U
108-86-1	Bromobenzene	1	U
103-65-1	n-Propylbenzene	1	U
110-57-6	trans-1,4-Dichloro-2-bute	25	U
96-18-4	1,2,3-Trichloropropane	1	U
95-49-8	2-Chlorotoluene	1	U
108-67-8	1,3,5-Trimethylbenzene	1	U
106-43-4	4-Chlorotoluene	1	U
98-06-6	tert-Butylbenzene	1	U
95-63-6	1,2,4-Trimethylbenzene	1	U
76-01-7	Pentachloroethane	1	U
135-98-8	sec-Butylbenzene	1	U
99-87-6	p-Isopropyltoluene	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
104-51-8	n-Butylbenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
67-72-1	Hexachloroethane	1	U
96-12-8	1,2-Dibromo-3-chloroprop	6	U
120-82-1	1,2,4-Trichlorobenzene	1	U
87-68-3	Hexachlorobutadiene	1	U
91-20-3	Naphthalene	1	U
87-61-6	1,2,3-Trichlorobenzene	1	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD SAMPLE ID:

ASW 4 -20 WV'S

Site Name: FRANKLIN CLEANERS

Site Code: 130050

SDG No.: 146-01

Matrix: (soil/water) WATER

Lab Sample ID: 104-146-006

Sample wt/vol: 20.0 (g/ml) ML

Lab File ID: 04A0389.D

Level: (low/med) LOW

Date Received: 05/25/04

% Moisture: not dec. _____

Date Analyzed: 05/27/04

GC Column: 624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000115-10-6	Carbon Dioxide	3.60	0.6	JN

From: Jeffery Trad
To: DeVita, Frank; Kenneth_Sullivan@URSCorp.com
Date: 5/4/04 5:26PM
Subject: Franklin Site well sampling ASMW4&5

Hi Ken -

as we discussed, we'd like to get samples from wells ASMW4&5 using overpumping. the technique is fairly straightforward.

take water levels as usual in both ASMW4&5

begin pumping well ASMW5

purge 3 well volumes (~16 gal/well volume or ~48 gal)
take another water level measurement at ASMW4
URS takes it's usual sample

continue purging another 4 well volumes (total of 7well volumes)
take another water level measurement at ASMW4
DEC will collect it's first sample

continue purging another 3 well volumes (total of 10 well volumes)
take another water level measurement at ASMW4
DEC will collect it's second sample

continue purging another 10 well volumes (total of 20 well volumes)
take another water level measurement at ASMW4
DEC will collect it's third sample
note: if the time to purge 20 volumes proves too long, or if the well runs dry(doubtful) we will collect at 15 volumes instead

begin pumping well ASMW4

purge 3 well volumes (~13 gal/well volume or ~39 gal)
water level measurements at ASMW5 does not need to be taken
URS takes it's usual sample

continue purging another 4 well volumes (total of 7well volumes)
DEC will collect it's first sample

continue purging another 3 well volumes (total of 10 well volumes)
DEC will collect it's second sample

continue purging another 10 well volumes (total of 20 well volumes)
DEC will collect it's third sample
note: if the time to purge 20 volumes proves too long, we will collect at 15 volumes instead

If anyone has any comments before we formalize this, that would be appreciated.

thanks - jeff

625 Broadway, 12th Floor

Albany, NY 12233-7013
(518) 402-9814
FAX: (518) 402-9019
jetrad@gw.dec.state.ny.us

CC: Bjorn_Cuento@URSCorp.com; Greg_Gangemi@URSCorp.com; neri@h2m.com

ASMW 4 - 2" PVC well gw at ~22 ft
80 ft of water column

$\frac{2}{12} = \frac{1'}{6}$ diameter

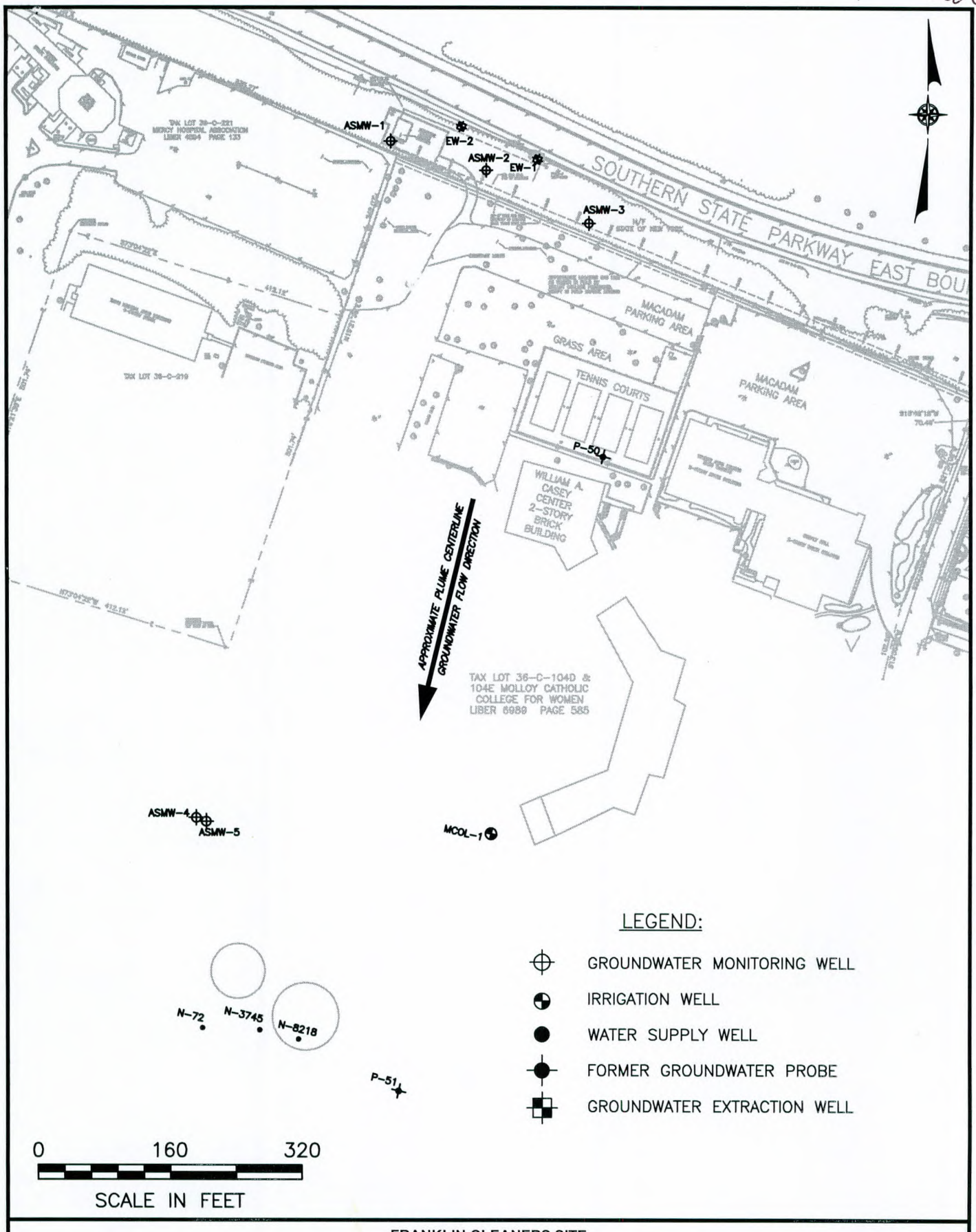
$A = \pi \frac{d^2}{2} = \pi \left(\frac{\frac{1}{6}}{2}\right)^2 = .02181\ ft^2 \times 80\ ft = 1.745\ ft^3$

$1.745\ ft^3\ of\ H_2O \quad 62.4\ \frac{lb}{ft^3\ H_2O} \quad \frac{1}{8.34\ lb/gal} = 13.056\ gal/well\ volume$

ASMW 5 - 2" PVC well gw at ~22 ft
100 ft of water column

$.02181\ ft^2 \times 100\ ft = 2.1816\ ft^3$

16.32 gal/well volume



FRANKLIN CLEANERS SITE
HEMPSTEAD, NEW YORK

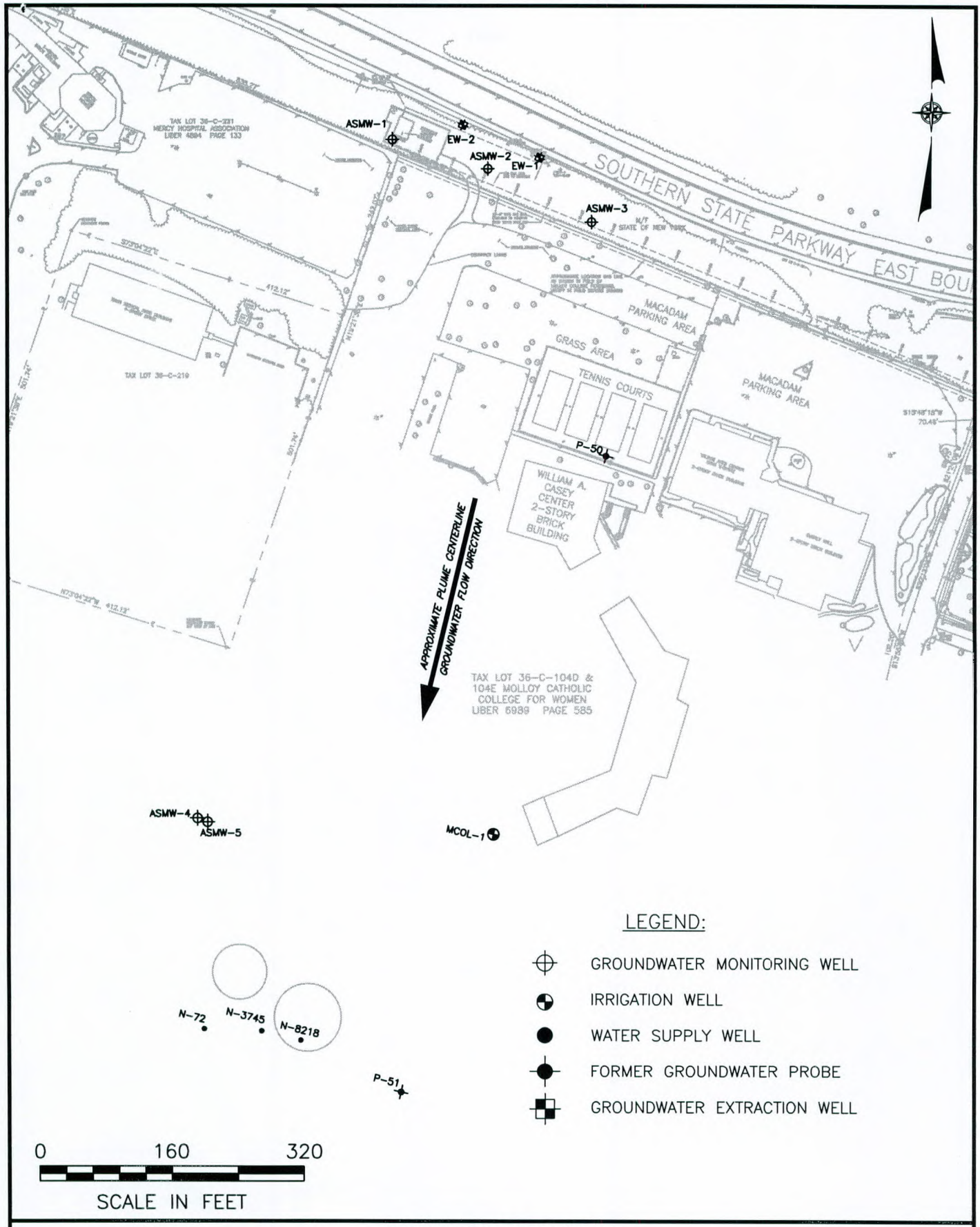
APPROXIMATE WELL LOCATION MAP

Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE No. 1

F:\1640\GW_DESIGN\Contract Drawings\1640-WELL_LOCATION.dwg, 05/02/03 05:10:23 PM, FDeVita

RECEIVED
MAY - 5 2003



FRANKLIN CLEANERS SITE
HEMPSTEAD, NEW YORK

APPROXIMATE WELL LOCATION MAP

Dvirka and Bartilucci
CONSULTING ENGINEERS
A DIVISION OF WILLIAM F. COSULICH ASSOCIATES, P.C.

FIGURE No. 1

F:\1640\GW_DESIGN\Contract Drawings\1640-WELL_LOCATION.dwg, 05/02/03 05:09:26 PM, FDeVita

H2M GROUP

Memo

RECEIVED
MAR 26 2004

To: Steve Kristas, P.E.

From: Dennis M. Kelleher

CC: Anthony Iannone-Superintendent
Martha Krisel Esq.-Village Attorney
Jeff Trad NYSDEC

Date: March 23, 2004

Re: Franklin Cleaners Hazardous Waste Site

Mr. Kristas,

Please find attached the official results of the New York State Department of Environmental Conservation sampling of the monitoring wells at Molloy College. As we had previously reported, the sampling of the monitoring wells North of the Villages Plant No. 4 had very small levels of acetone. The NYSDEC has no additional information as to the source of the contamination but believes that the construction could be a possible source. We have discussed with them the possibility of performing an additional sampling of the suspect monitoring wells. The sampling would be preceded with an over pumping of the well. We expect that this over pumping will draw the water from the aquifer into the well and extract any acetone if it is truly a residual from the construction. If the results of this sampling indicate acetone is present, we may then conclude that the acetone is in the aquifer and not a by product of the well drilling or construction.

Since the NYSDEC will be over pumping the well, they also intend to perform a hydraulic test to determine the extent of the aquaclude between screened zones of monitoring Wells No. 4 and 5. We will be in touch with the NYSDEC and update you as any additional informatioin is made available.

Should you have any questions feel free to contact this office.

Dennis M. Kelleher

New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau D, 12th Floor
625 Broadway, Albany, New York 12233-7013
Phone: (518) 402-9814 • **FAX:** (518) 402-9819
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

MAY 21 2004

Via US Mail and Facsimile

Mr. Kenneth M. Sullivan
Project Manager
URS Corporation
201 Willowbrook Boulevard
P.O. Box 290
Wayne, NJ 07474-0290

RE: Franklin Cleaners Site
Site No. 1-30-050, Contract No. D004264
Overpumping of Wells ASMW 4 and 5

Dear Mr. Sullivan:

The overpumping of wells ASMW 4 and 5, scheduled for May 24, 2004, will develop approximately 600 gallons of purge water. The Department's Standard Operating Procedure for the discharge of low-level or below SCG level contaminated purge water back to it's originating aquifer will allow for the discharge of this purge water to the ground surface in the vicinity of wells ASMW 4 and 5. Caution should be taken that the purge water does not pool or exceed the capacity for infiltration of the ground.

Sincerely

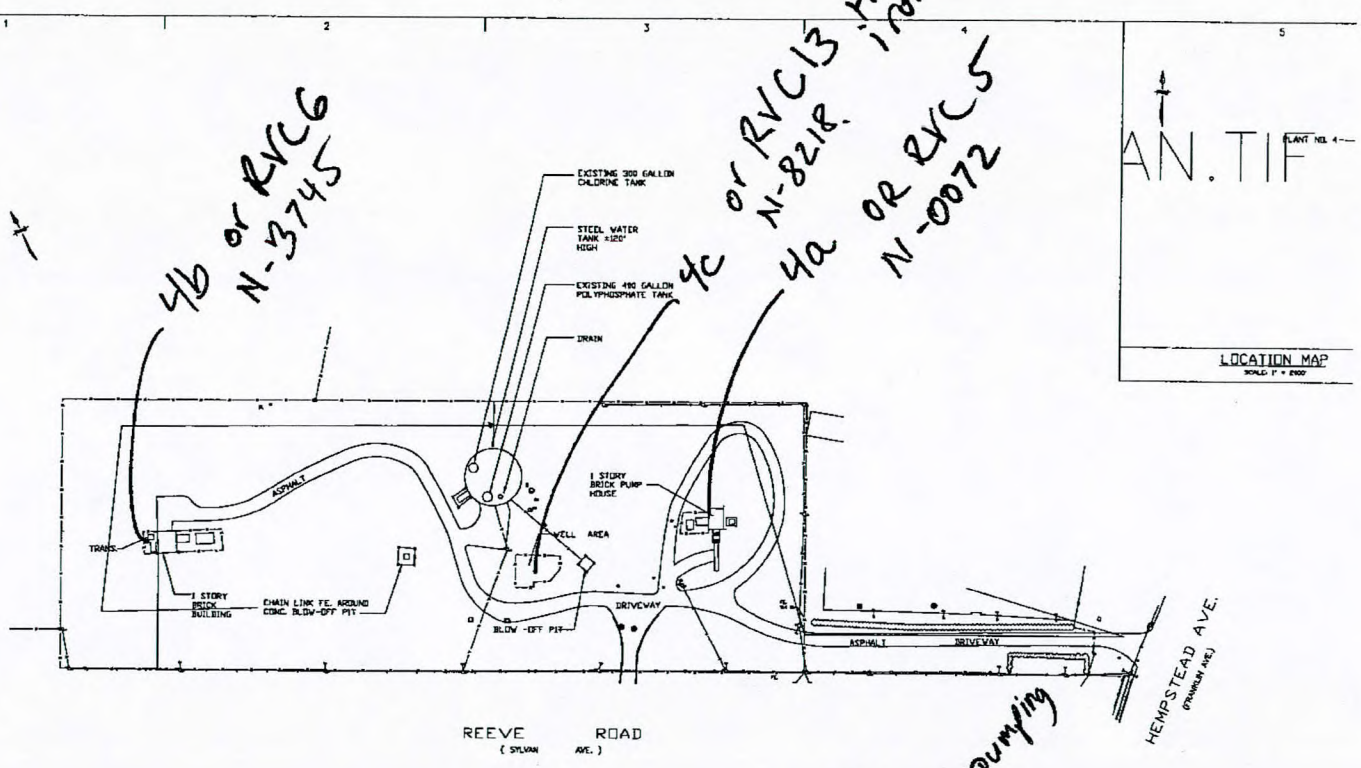
Robert C Knizek

Jeffrey Trad
Project Manager
Remedial Section D, Remedial Bureau D
Division of Environmental Remediation

cc: F. DeVita, D&B

JET/mj

bec: R. Knizek
J. Trad
Dayfile
F:\Franklin\SullivanOverpumping.wpd



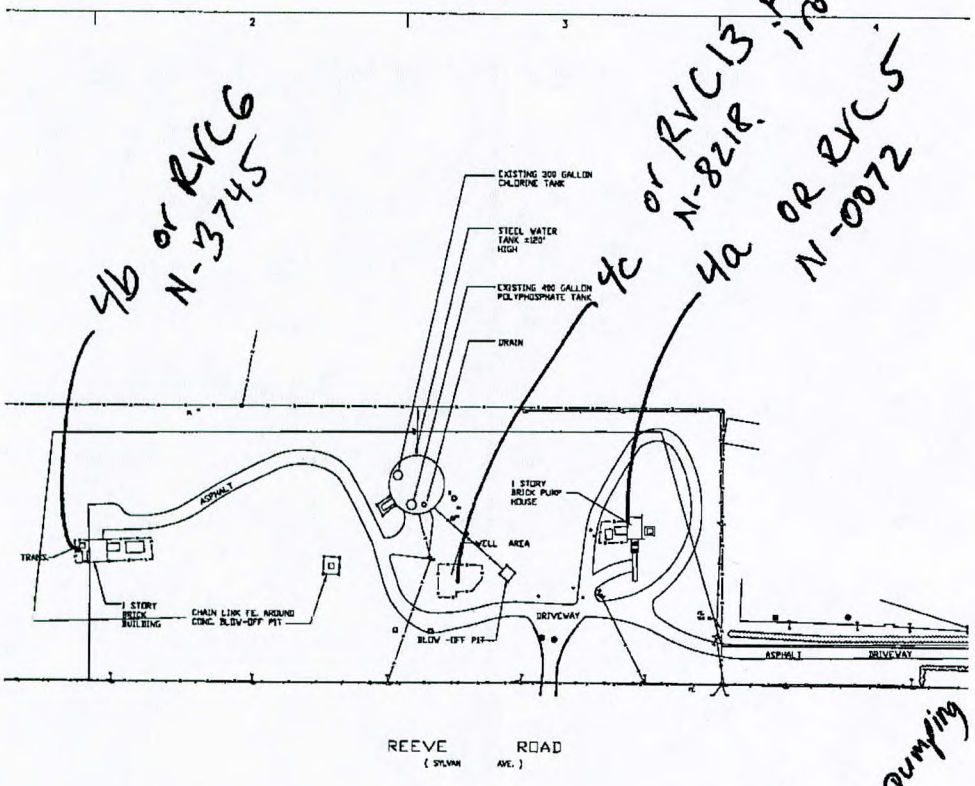
AN.TIF

LOCATION MAP

SITE PLAN

LEGEND

- WATER VALVE
- FIRE HYDRANT
- DRAIN INLET
- DRAIN MANHOLE
- UNIDENTIFIED MANHOLE
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- LIGHT POLE
- MONUMENT
- TREE
- WOOD FENCE
- CHAIN LINK FENCE
- OVERHEAD WIRES
- DRAINAGE PIPE
- (3) INDICATES TAX LOT NUMBER



4b or RVC6 N-3745

4c or RVC13 N-8218.

4a or RVC5 N-0072

High for last on

4a + 4b alternate pumping equally