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# Dvirka and Bartilucci CONSULTING ENGINEERS

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February 17, 2004

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Re: Franklin Cleaners Site (Site No. 1-30-050) NYSDEC Contract No. D004264 Quarterly Report No. 1 – September through December 2003 D&B No. 1851-05

Dear Mr. Trad:

The purpose of this letter is to summarize the operation and sampling of the groundwater extraction and treatment system, located approximately 1 mile south/ downgradient of the Franklin Cleaners Site (see Figure 1-1), for the period of September through November 2003. The information contained within this report is a compilation of monthly monitoring reports submitted by URS Corporation (URS) as per the requirements of the referenced contract, as well as additional split sampling performed by Dvirka and Bartilucci Consulting Engineers (D&B) as per the requirements of the approved Remedial Construction Inspection Work Plan Amendment, dated October 2003.

## **Groundwater Extraction and Treatment System Operation**

Routine operation of the groundwater extraction and treatment system began on September 9, 2003. Extraction wells EW-1 and EW-2 operated at average pumping rates of 36.7 gallons per minute (gpm) and 4.3 gpm, respectively. During this quarter, a total of 5,510,558 gallons of treated groundwater was discharged to the Nassau County Department of Public Works (NCDPW) storm sewer system in accordance with Nassau County Discharge Permit NC03-001R.

During this quarter, the groundwater extraction and treatment system was inoperative for a total of 58.5 hours due to routine maintenance. An additional

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Jeffrey E. Trad, P.E. Bureau of Construction Services Division of Environmental Remediation New York State Department of Environmental Conservation February 17, 2004

downtime of approximately 210 hours occurred as a result of the groundwater extraction and treatment system failing to communicate alarm conditions to the appropriate maintenance personnel. Please note that this problem was resolved upon an inspection of the groundwater extraction and treatment system during an on-site meeting on January 9, 2004, and has been operating properly since that time. A detailed description of the events that took place during the on-site meeting held on January 9, 2004, is provided in Attachment A.

## Groundwater Extraction and Treatment System Sampling

Aqueous samples were collected by URS from each of the two extraction well influent line sample taps, as well as from the air stripper discharge sample tap at a frequency of twice per month during the referenced quarter. Each sample was analyzed for volatile organic compounds (VOCs) using United State Environmental Protection Agency (USEPA) Method OLM04.2. The samples collected from the air stripper discharge sample tap were also analyzed for iron and manganese using USEPA Method 200.7 and field measured for pH. Split samples were collected by D&B on September 23, 2003, from one of the extraction well influent line sample taps and from the air stripper discharge sample tap. These split samples were analyzed for VOCs using USEPA Method OLM04.2. The air stripper discharge sample was also analyzed for iron and manganese using USEPA Method 200.7 and pH using SM 4500.

Sample results from each of the two extraction well influent lines and the air stripper discharge are shown in Table 1-1. Sample results are compared to NYSDEC Class GA Groundwater Standards and Guidance Values. The air stripper discharge results are also compared to the effluent limitations and monitoring requirements defined in Table 01651-1 of the Contract Documents for the referenced site. All air stripper discharge results did not contain VOCs above Class GA Groundwater Standards and Guidance Values, with the exception of the November 18, 2003 sample, which contained a total xylene concentration of 8.1 micrograms per liter, above the standard of 5 micrograms per liter. Additionally, all air stripper discharge results were below the effluent limitations and monitoring requirements defined in Table 01651-1 of the Contract Documents for this quarter, with the exception of discharge samples collected by URS on September 23, 2003 and October 21, 2003, where pH measurements of 5.17 s.u. and 6.49 s.u., respectively, were found below the limitation range of 6.5 s.u.-8.5 s.u.

Vapor phase samples were collected by URS from the influent and effluent sample taps at each of the two carbon adsorption units at a frequency of once per week during the referenced quarter. Each sample was collected by filling a Tedlar bag directly from each of the sampling taps and analyzed for total VOCs using a handheld photoionization detector (PID). These results are shown in Table 1-2. A total of 6.12 million pounds of treated air has vented through the carbon

Jeffrey E. Trad, P.E. Bureau of Construction Services Division of Environmental Remediation New York State Department of Environmental Conservation February 17, 2004

adsorption units this quarter. No VOCs were measured by the PID in any of the influent and effluent samples tested this quarter.

## **Groundwater Quality Data**

A network of five groundwater monitoring wells was sampled by URS to evaluate the effectiveness and optimize the operation of the groundwater extraction and treatment system. Samples were collected from ASMW-1, ASMW-2, ASMW-3, ASMW-4 and ASMW-5 at a frequency of once per month during the referenced quarter and analyzed for VOCs using USEPA Method OLM04.2. The locations of these wells are shown on Figure 1-2. A split groundwater sample was collected by D&B from ASMW-1 on November 25, 2003, and analyzed for VOCs using USEPA Method OLM04.2.

Analytical results for the monitoring well samples are shown in Table 1-3 and summarized on Figure 1-2. The results are compared to NYSDEC Class GA Groundwater Standards and Guidance Values. Each sample collected from wells ASMW-1 and ASMW-2 contained concentrations of tetrachloroethene (PCE) above the standard of 5 micrograms per liter (ug/l). The October sample from ASMW-1 also contained 1,1,2-trichloroethane at a concentration above the standard of 1 ug/l. The September sample from ASMW-3 contained PCE at a concentration above the standard. No other VOCs were detected in ASMW-3 at concentrations above standards or guidance values during this quarter.

Samples collected from monitoring wells ASMW-4 and ASMW-5, which are located directly upgradient/north of the Village of Rockville Centre public supply wells, did not contain any VOCs above Class GA Standards and Guidance Values, with the exception of ASMW-5, where an acetone concentration of 440 ug/l was detected above the standard of 50 ug/l in November. Since the blank samples associated with this sample also contained acetone, it is likely that the acetone is a laboratory artifact.

## Conclusions

- System influent sample results show that the extraction wells are capturing VOC-contaminated groundwater.
- System effluent samples show that the treatment system is effectively treating the captured VOCs to concentrations below discharge criteria defined in Table 01651-1 of the Contract Documents. However, one effluent sample had a total xylene concentration above Class GA Groundwater Standards and Guidance Values.

Jeffrey E. Trad, P.E. Bureau of Construction Services Division of Environmental Remediation New York State Department of Environmental Conservation February 17, 2004

Additionally, two of the effluent samples had pH levels outside the range defined in Table 01651-1 of the Contract Documents.

- 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. Based on the groundwater quality data for this quarter, it appears that the plume defined during the design study (D&B, December 2000) may have migrated to the west of the design study location, possibly due to the abandonment of the original Molloy College irrigation well (MCOL-1).
- The operation of the extraction system has been maximized during the referenced quarter. Sampling in February 2004 should indicate if the trend of the plume back to the east has continued where the plume is once again centered over extraction well EW-1.

## Recommendations

- Operation of the groundwater extraction and treatment system should be continued.
- Consideration should be given to delineation of 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,

& Pelito

Frank DeVita Project Manager

FD/cmc Enclosure cc: T. Maher, D&B R. Heling, D&B J. Neri, H2M •1851\FD02094LTR.DOC(R03)

# FIGURES



	ASMW-1		11 /07 /07					ASMW-2	10/01/07	1 1 1 1	10-
GROUNDWATER ELEVATION (4)	24.79	24.59	24.59			GROUNDWATER F	LEVATION (4)	24.66	24.26	24.3	6
COLLECTED BY	URS	URS	URS D&B			COLLECTED BY		URS	URS	URS	
Constituent						Constituent					
1,1-Dichloroethene Acetone	2.5J ND	ND ND	1.3J ND ND ND			1,1-Dichloroethe	ene	1.8J ND	ND ND	ND ND	
Methylene Chloride	ND 1 3	ND	ND ND			Methylene Chlori	ide	ND	ND	ND	
1,1,1-Tricloroethane	ND	2.9J	1.7J 2.0J	C		1,1,1-Tricloroeth	nane	ND	ND	ND	
1,1,2-Trichloroethene	ND	11.0J	ND ND ND ND	munu		1,1,2-Trichloroe	thene	ND	ND	ND ND	
Tetrachloroethene Kylene (total)	380D ND	340D ND	120 170 ND ND		de la	Tetrachloroether Xylene (total)		250D ND	140 ND	250 ND	
TAX LOT 36-C-221 HERCY HOSPITAL ASSOCIATION LIBER 4894 PAGE 133 ***	the second secon	ASMW-T		EW-2 ASMW-2-	EW-	SOUTH STATES STA	E SAMPLED UNDWATER ELEV ESAMPLED UNDWATER ELEV ECTED BY stituent -Dichloroethene tone hylene Chloride proform 1 - Tricloroethene modichlorometh 2 - Trichloroethene me (total)	e ane ne Province de la construcción de la construc	ASMW-3 09/25/03 25.41 URS ND ND ND ND ND ND ND ND ND ND ND ND ND	© 10/21/0 24.96 URS ND ND ND 1.0J ND 1.4J ND	© © 3 11/25/03 25.01 URS ND ND ND ND ND ND ND ND ND ND
Add Add Add Add Add Add Add Add	/	DATE SAMP GROUNDWAT COLLECTED Constituent 1,1-Dichlor Acetone Methylene Chloroform 1,1,1-Trick Bromodich 1,1,2-Trict Tetrachloro	LED FER ELEVATION BY croethene Chloride coroethane loroethane bloroethane bloroethane	ASMW-4 09/25/03 4 (4) 22.33 URS ND ND ND ND ND ND ND ND ND ND ND ND ND	ND         ND           4.0J         ND           ND         ND	11/25/03 23.33 URS ND ND ND 3.0J ND ND ND ND ND				OLDUS HOLL OTONY BOOM BLACK	All and a second s
		DATE SAMP GROUNDWA COLLECTED Constituent 1,1-Dichlo Acetone Methylene Chloroform	LED TER ELEVATION BY t roethene Chloride	ASMW-5 09/25/03 V (4) 23.43 URS URS ND ND 2.1J 3.6J ND ND	10/21/03 23.33 URS ND ND ND ND ND ND ND ND ND	11/25/03 22.63 URS ND 440 ND ND ND ND ND		AX LOT 3 04E MOLI COLLEGE IBER 698	6-C-104 OY CATHO FOR WOM 9 PAGE	D & DLIC EN 585	[ <sup>67</sup>
		1,1,1–1nci Bromodich 1,1,2–Tricl Tetrachlord Xylene (to	loromethane hloroethene bethene tal)	ND ND ND	ND ND ND	ND ND 1.0J	/				
SMW-4 OF ASMW-5		1,1,1-Inci Bromodich 1,1,2-Tricl Tetrachlore Xylene (to	loromethane hloroethene oethene tal)		ND ND ND	ND ND 1.0J					
SMW-4 OF ASMW-5		1,1,1-The Bromodich 1,1,2-Triel Tetrachlord Xylene (to	loromethane hloroethene oethene tal)	MCOL-1	ND ND ND	ND ND 1.0J	CPO			VELLS	
MW-4 OF ASMW-5		1,1,1-Inci Bromodich 1,1,2-Tricl Tetrachlord Xylene (to	loromethane hloroethene oethene tal)	MCOL-1	ND ND ND		GRO	UNDWATER M	IONITORING V	VELLS	TOP OF





#### TABLE 1-1 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 EXTRACTION AND TREATMENT SYSTEM SAMPLE RESULTS

	SYSTEM INFLUENT	•						
SAMPLE ID	(EW-1)	NYSDEC CLASS GA						
SAMPLE TYPE	WATER	GROUNDWATER						
DATE OF COLLECTION	9/23/03	9/23/03	10/7/03	10/21/03	11/4/03	11/18/03	12/10/03	STANDARDS AND
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS	GUIDANCE VALUES
UNITS	(ug/L)							
VOCs								
Dichlorodifluormethane	U	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	U	5
Vinyl chloride	U	U	U	U	U	U	U	2
Bromomethane	U	U	U	U	U	U	U	5
Chloroethane	U	U	U	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5
1.1-Dichloroethene	2.4 J	U	U	U	U	U	U	5
1.1.2-Trichloro-1.2.2-trifluoroethane	U	U	U	U	U	U	U	5
Acetone	U	U	U	U	U	U	U	50
Carbon disulfide	U	Ŭ	U	U	U	U	U	60 GV
Methyl acetate	U	Ŭ	U	U	U	U	U	
Methylene chloride	Ŭ	Ŭ	Ū	Ŭ	Ū	Ŭ	Ŭ	5
trans 1.2-Dichloroethene	Ŭ	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ū	5
Methyl-tert butyl ether	U U	Ŭ	Ŭ	Ŭ	ŭ	Ŭ	0.97 .1	10 GV
1 1-Dichloroethane	U U	Ŭ Ŭ	Ŭ	Ŭ	ŭ	Ŭ	U	5
cis-1 2-Dichloroethene	U U	Ŭ Ŭ	Ŭ	Ŭ	ŭ	Ŭ	Ŭ	5
2-Butanone	1	U U	Ŭ	ŭ	ŭ	Ŭ	Ŭ	50 GV
Chloroform	16.1	U U	Ŭ	ŭ	ŭ	Ŭ	ŭ	7
1 1 1 Trichlorothano	1.0 0		U U		U U	Ű	Ŭ	5
Cycloboxano	201		11	U U	U U	U		
Carbon totrachlarida	2.0 5		0	U	U U	U		5
Panzono				0	1	0	U U	1
1.2 Dichleresthans	0	0	0	1	0	0		1
Trichleroothono	0.66.1		1	U U	U U	U		5
Mathulayalahayana	0.00 J	0	0	0	0	0		5
	1.4 J		0		0	0		1
r,z-Dichloropropane				0	0	0		50
	0		0		0	0		0.4
A Method 2 pentenene	0		0		0	0		0.4
T-weinyi-z-pentanone	0		0		0	111		5
roluene	0	0		0	0	1.1 J		0.4
trans-1,3-Dichloropropene	0				0	U		0.4
T, T, Z-Thenoroethane	500 D	200 D	140	120	170	120	120	5
retrachioroethene	500 D	300 D	140	130	170	120	120	5
2-Hexanone	0	0	0	U	0	U	0	50 G V
Dibromochloromethane	0			0	U	U	0	50
1,2-Dibromoethane	U	0	0	0	U	U	0	5
Chlorobenzene	U	U	U	U	U	U		5
Ethylbenzene	U	U	U	U	U	U	U	5
Xylene (total)	U	U	U	U	U	4.4 J	U	5
Styrene	U	U	U	U	U	U	U	5
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	0.78 J	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	U	U	U	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	0.04
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	5

NOTES: U: Compound analyzed for but not detected

U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA

Groundwater Standards or Guidance Values

ug/L = Micrograms per liter GV: Guidance Value

--: Not established

## TABLE 1-1 (Continued) FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 EXTRACTION AND TREATMENT SYSTEM SAMPLE RESULTS

	SYSTEM INFLUENT							
SAMPLE ID	(EW-2)	NYSDEC CLASS GA						
SAMPLE TYPE	WATER	GROUNDWATER						
DATE OF COLLECTION	9/23/03	9/23/03	10/7/03	10/21/03	11/4/03	11/18/03	12/10/03	STANDARDS AND
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS	GUIDANCE VALUES
UNITS	(ug/L)							
VOCs								
Dichlorodifluormethane	U	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	U	5
Vinyl chloride	U	U	U	U	U	U	U	2
Bromomethane	U	U	U	U	U	U	U	5
Chloroethane	U	U	U	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5
1,1-Dichloroethene	U	2 J	1.2 J	U	1.3 J	1.4 J	1.4 J	5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	5
Acetone	U	U	U	U	U	U	U	50
Carbon disulfide	U	U	U	U	U	U	U	60 GV
Methyl acetate	U	U	U	U	U	U	U	
Methylene chloride	Ŭ	ū	Ŭ	Ŭ	U	Ŭ	Ŭ	5
trans 1.2-Dichloroethene	Ŭ	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	5
Methyl-tert butyl ether	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	10 GV
1 1-Dichloroethane	Ŭ	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	ŭ	5
cis-1 2-Dichloroethene	Ŭ	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	U U	5
2-Butanone	U U	Ŭ	Ŭ	Ŭ	U U	Ŭ	U U	50 GV
Chloroform	U U	11	151	131	11	151	151	7
1 1 1-Trichlorethane	Ŭ	u i	1.0 0	1.0 0	12.1	131	131	5
Cyclobexane	U U	ŭ	Ŭ	U	1.2 0	1.0 0	1.0 0	5
Carbon tetrachloride	U U	U U	U	U	U	0	U U	5
Benzene	U		1	0	0	0	0	1
1.2-Dichloroethane	0		0	U	0	0	0	1
Trichloroethene	0	21	0	0	0	0	0	5
Methylovclobexane	0	2 5	0	0	0	0		5
	0	0	0	0	0	0	0	
Promodiableromethene	0	0	0	0	0	0	0	1
ais 1.2 Dichloronrenance	0		0	0	0	0	0	50
A Methyl 2 pentenene	0		0	0	0	U	U	0.4
4-Methyl-2-pentanone	0	0	0	U	U	U	0	
toluene	0	0	0	U	U	U	U	5
trans-1,3-Dichloropropene	0		U	U	U	U	U	0.4
Tetraphlereathana	100 D	0 840 D	700 D	750 D	0 540 D	0	0	1
	160 D	840 D	700 D	750 D	540 D	670 D	670 D	5
2-Hexanone	U	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	U	50
1,2-Dibromoethane	U	U	U	U	U	U	U	5
Chlorobenzene	U	U	U	U	U	U	U	5
Ethylbenzene	U	U	U	U	U	U	U	5
Xylene (total)	U	U	U	U	4.4 J	U	U	5
Styrene	U	U	U	U	U	U	U	5
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	U	U	U	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	0.04
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	5
NOTES								

U: Compound analyzed for but not detected U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA

Groundwater Standards or Guidance Values

ug/L = Micrograms per liter GV: Guidance Value --: Not established

## TABLE 1-1 (Continued) FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 EXTRACTION AND TREATMENT SYSTEM SAMPLE RESULTS

	SYSTEM	EFFLUENT LIMITATIONS	NYSDEC .						
SAMPLE ID	EFFLUENT	AND MONITORING	CLASS GA "						
SAMPLE TYPE	WATER	REQUIREMENTS PER	GROUNDWATER						
DATE OF COLLECTION	09/23/2003	09/23/2003	10/07/2003	10/21/2003	11/04/2003	11/18/2003	12/10/2003	TABLE 01651-1 OF THE	STANDARDS AND
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS	CONTRACT DOCUMENTS.	GUIDANCE VALUES
UNITS	(ug/L)	(ug/L)							
VOCs									
Dichlorodifluormethane	U	U	U	U	U	U	U		5 GV
Chloromethane	U	U	U	U	U	U	U		5
Vinyl chloride	U	U	U	U	U	U	U		2
Bromomethane	U	U	U	U	U	U	U		5
Chloroethane	U	U	U	U	U	U	U		5
Trichlorofluoromethane	U	U	U	U	U	U	U		5
1,1-Dichloroethene	U	U	U	U	U	U	U		5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U		5
Acetone	U	U	U	U	U	U	U		50
Carbon disulfide	U	U	U	U	U	U	U		60 GV
Methyl acetate	U	U	U	U	U	U	U		
Methylene chloride	U	U	U	U	U	U	U		5
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	-	5
Methyl-tert butyl ether	U	U	U	U	U	U	U		10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	10	5
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	10	5
2-Butanone	U	U	U	U	U	U	U		50 GV
Chloroform	U	U	U	U	U	U	U		7
1,1,1-Trichlorethane	U	U	U	U	U	U	U	10	5
Cyclohexane	U	U	U	U	U	U	U		
Carbon tetrachloride	U	U	U	U	U	U	U		5
Benzene	U	U	U	U	U	U	U		1
1,2-Dichloroethane	U	U	U	U	U	U	U		1
Trichloroethene	U	U	U	U	U	U	U	10	5
Methylcyclohexane	U	U	U	U	U	U	U		
1,2-Dichloropropane	U	U	U	U	U	U	U		1
Bromodichloromethane	U	U	U	U	U	U	U		50
cis-1,3-Dichloropropene	U	U	U	U	U	U	U		0.4
4-Methyl-2-pentanone	U	U	U	U	U	U	U		
Toluene	U	U	U	U	U	2.1 J	U		5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U		0.4
1,1,2-Trichloroethane	U	U	U	U	U	U	U		1
Tetrachloroethene	U	U	U	U	U	U	U	5	5
2-Hexanone	U	U	U	U	U	U	U		50 GV
Dibromochloromethane	U	U	U	U	U	U	U		50
1.2-Dibromoethane	U	U	U	U	U	U	U		5
Chlorobenzene	Ŭ	U	U	U	U	Ŭ	U		5
Ethylbenzene	U	U	U	U	U	1.3 J	Ū		5
Xylene (total)	U	U	U	U	U	8.1 J	U		5
Styrene	U	U	U	U	U	U	U		5
Bromoform	Ŭ	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ		50 GV
Isopropylbenzene	Ū	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ		5
1.1.2.2-Tetrachloroethane	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ		5
1.3-Dichlorobenzene	Ŭ	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ		3
1 4-Dichlorobenzene	ŭ	Ŭ	U	Ŭ	U	Ŭ	U		3
1.2-Dichlorobenzene	Ŭ	Ŭ	Ű	Ŭ	U U	11	U U		3
1.2-Dibromo-3-chloropropane	Ŭ	ü	U	Ŭ	U U	U	Ű		0.04
1.2.4-Trichlorobenzene	ŭ	Ŭ	Ŭ	Ŭ	U	Ŭ	U		5
NOTES:			~	~	,	ÿ	~		<u> </u>

U: Compound analyzed for but not detected Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values J: Compound found at a concentration below CRDL, value estimate --: Not established

ug/L = Microgram per liter

## TABLE 1-1 (Continued) FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 EXTRACTION AND TREATMENT SYSTEM SAMPLE RESULTS

	SYSTEM	EFFLUENT LIMITATIONS	NYSDEC						
SAMPLE ID	EFFLUENT	AND MONITORING	CLASS GA						
SAMPLE TYPE	WATER	REQUIREMENTS PER	GROUNDWATER						
DATE OF COLLECTION	09/23/2003	09/23/2003	10/07/2003	10/21/2003	11/04/2003	11/18/2003	12/10/2003	TABLE 01651-1 OF THE	STANDARDS AND
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS	CONTRACT DOCUMENTS.	GUIDANCE VALUES
UNITS	(ug/L)	(ug/L)							
METALS									
Iron	64.6	85.9	191	953	35.9	49.6	395	1000	5 GV
Manganese	29	34.7	28.1	38.3	29.4	36.3	41.6	1000	5
pH (S.U.)	5.17	7.60	6.64	6.49	7.57	7.5	7.57	6.5 to 8.5	2

NOTES:

Concentration exceeds NYSDEC SPDES Permit ug/L = Microgram per liter

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## TABLE 1-2 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 EXTRACTION AND TREATMENT SYSTEM AIR SAMPLE RESULTS

	CARBON VESSEL NO. 1	CARBON VESSEL NO. 1	CARBON VESSEL NO. 2	CARBON VESSEL NO. 2
SAMPLE ID	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
SAMPLE TYPE	AIR	AIR	AIR	AIR
COLLECTED BY	URS	URS	URS	URS
UNITS	(ppm)	(ppm)	(ppm)	(ppm)
	TOTAL VOCo		TOTAL VOC-	TOTAL VOC-
Sentember 9, 2003		TOTAL VOCS	TOTAL VOCS	TOTAL VOCS
September 16, 2003	0.0	0.0	0.0	0.0
September 23, 2003	0.0	0.0	0.0	0.0
September 30, 2003	0.0	0.0	0.0	0.0
October 7, 2003	0.0	0.0	0.0	0.0
October 14, 2003	0.0	0.0	0.0	0.0
October 21, 2003	0.0	0.0	0.0	0.0
October 28, 2003	0.0	0.0	0.0	0.0
November 4, 2003	0.0	0.0	0.0	0.0
November 11 2003	0.0	0.0	0.0	0.0
November 18, 2003	0.0	0.0	0.0	0.0
November 25, 2003	0.0	0.0	0.0	0.0
December 2, 2003	0.0	0.0	0.0	0.0
December 9, 2003	0.0	0.0	0.0	0.0
December 9, 2003	0.0	0.0	0.0	0.0

S . . .

- Samples were collected by filling a Tedlar bag at each of the sampling locations. Samples were tested using a handheld photoionization detector.

SAMPLE ID	ASMW-1	ASMW-1	ASMW-1	ASMW-1	NYSDEC CLASS GA
SAMPLE TYPE	WATER	WATER	WATER	WATER	GROUNDWATER
DATE OF COLLECTION	9/25/03	10/21/03	11/25/03	11/25/03	
COLLECTED BY	URS	URS	URS	D&B	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	GOIDANGE VALGES
VOCs					
Dichlorodifluormethane	U	U	U	U	5 GV
Chloromethane	U	U	U	U	5
Vinyl chloride	U	U	U	U	2
Bromomethane	U*	U	U	U	5
Chloroethane	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	5
1,1-Dichloroethene	2.5 J	U	1.3 J	U	5
1.1.2-Trichloro-1.2.2-trifluoroethane	U	U	U	U	5
Acetone	U	U	U	U	50
Carbon disulfide	U	U	U	U	60 GV
Methyl acetate	Ū	U U	U	U U	
Methylene chloride	Ū	Ū Ū	Ū	U	5
trans 1 2-Dichloroethene	ũ	U U	U	U	5
Methyl-tert butyl ether	ŭ	U U	Ŭ	Ŭ	10 GV
1 1-Dichloroethane	ŭ	u u	Ū.	Ŭ	5
ris 1 2-Dichloroethane	U U		U .	u u	5
2-Butanone	U U		U U	U U	50 GV
Chloroform	131	131	121	10.1	7
1 1 1 Trichlorothana	1.0 0	291	171	201	5
Cycloboxopo		2.0 0	1.7 5	2.0 0	
Carbon totrachlorido	0			U U	5
Banzana				U U	1
1 2 Disblarasthana	0			0	1
Trichleroothono					5
Methylevelebevene	0				5
	0				1
T,2-Dichloropropane	0		0		50
biomodichioromethane	0				0.4
cis-1,3-Dichloropropene	0				0.4
4-Methyl-2-pentanone	0		0		
Toluene	0				0.4
1 1 2 Trichleroothono	0	11.0 1			1
T, 1,2-Thenloroethane	380 D	240 D	120	170	5
l etrachioroethene	380 D	340 D	120	170	50 ()/
2-Hexanone	U	0	0	0	50 GV
Dibromochloromethane	U	0	0		50
1,2-Dibromoethane	U	0	0	0	5
Chlorobenzene	U	0	U	U	5
Ethylbenzene	U	0	U	U	5
Xylene (total)	U	U	U	U	5
Styrene	U	U	U U	U	5
Bromoform	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	3
1,4-Dichlorobenzene	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	0.04
1,2,4-Trichlorobenzene	U	U	U	U	5

NOTES: U: Compound analyzed for but not detected

U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA Groundwater GV: Guidance Value ug/L = Micrograms per liter --: Not established

Standard or Guidance Value

SAMPLE ID	ASMW-2	ASMW-2	ASMW-2	
SAMPLE TYPE	WATER	WATER	WATER	NYSDEC CLASS GA
DATE OF COLLECTION	9/25/03	10/21/03	11/25/03	GROUNDWATER
COLLECTED BY	URS	URS	URS	STANDARDS AND
UNITS	(ug/L)	(ug/L)	(ug/L)	GUIDANCE VALUES
VOCs	(-5/	(0)	(5/	
Dichlorodifluormethane	U	U	U	5 GV
Chloromethane	U	ŭ	U U	5
Vinvl chloride	Ŭ	Ŭ	U U	2
Bromomethane	U	ŭ		5
Chloroethane	Ŭ	Ŭ	U U	5
Trichlorofluoromethane	U U	ŭ	u u	5
1 1-Dichloroethene	18.1	Ŭ	U U	5
1 1 2-Trichloro-1 2 2-trifluoroethane		ŭ	Ŭ Ŭ	5
Acetone	U U			5
Carbon disulfide	U U			50 60 CV
Methyl acetate	0	0		00 G V
Methylana chlarida	U U	0		
trans 1.2 Dichloraethono	0			5
Mathul tart hutul athar	0		0	5
1 1 Dichleraethane	0	0	0	10 GV
in 1.2 Dichlementheme	0	0		5
	U	0		5
2-Butanone	U	U		50 GV
Chloroform	U	0		7
1,1,1-I richlorethane	U	U		5
Cyclohexane	U	U	0	
Carbon tetrachloride	U	U	U	5
Benzene	U	U	U	1
1,2-Dichloroethane	U	U	U	1
Trichloroethene	U	U	U	5
Methylcyclohexane	U	U	U	
1,2-Dichloropropane	U	U	U	1
Bromodichloromethane	U	U	U	50
cis-1,3-Dichloropropene	U	U	U	0.4
4-Methyl-2-pentanone	U	U	U	
Toluene	U	U	U	5
trans-1,3-Dichloropropene	U	U	U	0.4
1,1,2-Trichloroethane	U	U	U	1
Tetrachloroethene	250 D	140	250 D	5
2-Hexanone	U	U	U	50 GV
Dibromochloromethane	U	U	U	50
1,2-Dibromoethane	U	U	U	5
Chlorobenzene	U	U	U	5
Ethylbenzene	U	U	U	5
Xylene (total)	U	U	U	5
Styrene	U	U	U	5
Bromoform	U	U	U	50 GV
Isopropylbenzene	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	5
1.3-Dichlorobenzene	U	U	Ū	3
1,4-Dichlorobenzene	U	U	U U	3
1.2-Dichlorobenzene	U	Ŭ	Ū Ū	3
1.2-Dibromo-3-chloropropane	U	Ŭ	U U	0.04
1.2.4-Trichlorobenzene	U	Ŭ	U U	5.04
NOTES:		-		

U: Compound analyzed for but not detected

J: Compound found at a concentration below CRDL, value estimated

D: Result taken from reanalysis at a secondary dilution

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value ug/L = Micrograms per liter

--: Not established

GV: Guidance Value

SAMPLE ID	ASMW-3	ASMW-3	ASMW-3		
SAMPLE TYPE	WATER	WATER	WATER	NY:	SDEC CLASS GA
DATE OF COLLECTION	9/25/03	10/21/03	11/25/03	GI	ROUNDWATER
COLLECTED BY	URS	URS	URS	SI	ANDARDS AND
UNITS	(ug/L)	(ug/L)	(ug/L)	GUI	IDANCE VALUES
VOCs					
Dichlorodifluormethane	U	U	U		5 GV
Chloromethane	U	U	U		5
Vinvl chloride	Ŭ	Ŭ	U		2
Bromomethane	Ū*	Ŭ	U U		5
Chloroethane	ŭ	ū	U U		5
Trichlorofluoromethane	Ŭ.	ŭ	Ŭ Ŭ		5
1 1-Dichloroethene	U U	U U	U U		5
1 1 2-Trichloro-1 2 2-trifluoroethane	11*				5
Acetone	U U				50
Carbon disulfide	U U				60 GV
Mathyl acotato	U U	U U			00 00
Methylana chlorida		U U			5
trans 1.2 Dichlaraothana		0			5
Mothyl tort butyl othor	0	0	161		10 CV
1 1 Dichlereethane			1.0 J		10 GV
in 1.2 Disbleresthere		0			5
2 Butenene		0	0		5
Chloroform					50 G V
	0	0			7
Cyclebovene	0		0		5
Cyclonexane		0			
Demons		0	0		D d
Benzene	0	0	0		1
	0	0	0		1
I richioroethene	0	0	0		5
Methylcyclonexane	U	0			
1,2-Dichloropropane	0	0	0		1
Bromodicnioromethane	U	1.0 J			50
cis-1,3-Dichloropropene	0	0	0		0.4
4-Methyl-2-pentanone	0	U	0		
loluene	U	U	0		5
trans-1,3-Dichloropropene	U		U		0.4
T, T, Z- Trichloroethane	0		0		1
letrachioroethene	13	1.4 J	2.1 J		5
2-Hexanone	U	U	U		50 GV
Dibromochloromethane	U	U	U		50
1,2-Dibromoethane	U	U	U		5
Chlorobenzene	U	U	U		5
Ethylbenzene	U	U	U		5
Xylene (total)	U	U	U		5
Styrene	U	U	U		5
Bromoform	U	U	U		50 GV
Isopropylbenzene	U	U	U		5
1,1,2,2-Tetrachloroethane	U	U	U		5
1,3-Dichlorobenzene	U	U	U		3
1,4-Dichlorobenzene	U	U	U		3
1,2-Dichlorobenzene	U	U	U		3
1,2-Dibromo-3-chloropropane	U	U	U		0.04
1,2,4-Trichlorobenzene	U	U	U		5

NOTES:

U: Compound analyzed for but not detected U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA Groundwater

Standard or Guidance Value

GV: Guidance Value ug/L = Micrograms per liter

--: Not established

SAMPLE ID	ASMW-4	ASMW-4	ASMW-4		
SAMPLE TYPE	WATER	WATER	WATER		
DATE OF COLLECTION	9/25/03	10/21/03	11/25/03		GROUNDWATER
COLLECTED BY	URS	URS	URS		
UNITS	(ug/L)	(ug/L)	(ug/L)		GUIDANCE VALUES
VOCs					
Dichlorodifluormethane	U	U	U		5 GV
Chloromethane	U	U	U		5
Vinyl chloride	U	U	U		2
Bromomethane	U*	U	U		5
Chloroethane	U	U	U		5
Trichlorofluoromethane	Ū	Ŭ	U		5
1 1-Dichloroethene	Ū	Ŭ	U		5
1 1 2-Trichloro-1 2 2-trifluoroethane	U*	Ŭ	Ŭ		5
Acetone	Ū	Ŭ	U*		50
Carbon disulfide	Ŭ Ŭ	ŭ	U U		60 GV
Methyl acetate	U	Ŭ	Ŭ		
Methylene chloride	U U	Ű	U		5
trans 1 2-Dichloroethene		U U	U U		5
Methyl tert hutyl ether			U U		10 GV
1 1-Dichloroethane	U U	U	U U		5
cis 1.2 Dichloroethene			U U		5
2 Butanono	0		U U		50 GV
Chloroform	0	401	301		7
1 1 1 Trichlorothano		4.0 0	5.0 5	5	5
Cyclobeyane	0		U U		
Carbon totrachlarida	0	U U	U U		5
Bonzono	0		U U		1
1.2 Dichloroothano	0		U U		1
Trichlereethone	0		U		5
Methylaveleboyano	0		U U		5
1.2 Dichloropropopo	0		U		1
Promodichloromothono	0		U		50
sis 1.2 Dichloronronono	0		U		0.4
A Methyl 2 poptanana	0		0		0.4
Toluono	0		0		5
trong 1.2 Dichloropropono	0	0	0		0.4
1 1 2 Trichleresthere	0	0	0		1
Tetraphereethene	0	0	0		5
		0		-	50 GV
Dibromochloromothono		0	0		50 6 4
		0			5
Chlorohonzena	0	0			5
Chlorobenzene	0				5
	0		0		5
Aylene (total)			0		5
Styrene		0	0		50 01/
Bromotorm			0		
Isopropyidenzene	0	0	0		5
1,1,2,2-1 etrachloroethane	0	0	0		5
	0	0			3
1,4-Dichlorobenzene	0	U	0		3
1,2-Dichlorobenzene	U	0	U		3
1,2-Dibromo-3-chloropropane	U	U	0		0.04
1,2,4-1 richlorobenzene		U	U		5

NOTES: U: Compound analyzed for but not detected

U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA Groundwater

Standard or Guidance Value

GV: Guidance Value ug/L = Micrograms per liter --: Not established

SAMP E TYPE         WATER         WATER         WATER         WATER         Output           SAMP E TYPE         07830         107803         —         STAMPARDAS AND COLLECTION         STAMPARDAS AND COLLECTION         SUBARDAS AND COLLECTION         SUBARDAS AND COLLECTION         SUBARDAS AND COLLECTION         SUBARDAS AND COLLECTION         SUBARDAS AND COLLECTION         SUBARDAS AND COLLECTION         SUBARDAS SUBARDAS AND COLLECTION         SUBARDAS SUBAR	SAMPLE ID	ASMW-5	ASMW-5	ASMW-5			
DATE OF COLLECTION         92693         102,103         112,503         Standpato All         Standpato All           DATE S         (ugL)	SAMPLE TYPE	WATER	WATER	WATER			CROUNDWATER
COLLECTED BY         URS         URS         URS         URS         URS         URS         URS         URS         UNMORTUNES           VOCS         (bpl.)         (bpl	DATE OF COLLECTION	9/25/03	10/21/03	11/25/03			GROUNDWATER
UNITS         Org/1         Org/1         Org/1         Org/1         Output of the second seco	COLLECTED BY	URS	URS	URS			STANDARDS AND
UPCE         U	UNITS	(ug/L)	(ug/L)	(ug/L)			GUIDANCE VALUES
Dichloration         U         U         U         U         U         Sevent         Se	VOCs						
Choomstane         U         U         U         U         U         S           Bronmethane         U         U         U         U         S         S           Bronmethane         U         U         U         S         S           Choomstane         U         U         U         S         S           Aceton         S         U         U         U         S         S           Aceton         U         U         U         U         S         S         S           Aceton         S         U         U         U         S         S         S         S           Aceton         S         U         U         U         U         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S         S	Dichlorodifluormethane	U	U	U			5 GV
Viny entraine         U         <	Chloromethane	U	U	U			5
Sommethane         U         U         U         U         U           Chinocharen         U         U         U         S           Tholhorothare         U         U         U         S           1,12-Trichonor.12.2-trifuoroethane         U         U         S           1,12-Trichonor.12.2-trifuoroethane         U         U         S           Acatone         U         U         S           Carlon Gaulide         U         U         S           Maryl Acatone         U         U         S           Statione         U         U         U         S           Maryl Acatone         U         U         U         S           Statione         U         U         U         S </td <td>Vinyl chloride</td> <td>U</td> <td>U</td> <td>U</td> <td></td> <td></td> <td>2</td>	Vinyl chloride	U	U	U			2
Objective share         U         U         U         U         S           Tichbordsurve share         U         U         U         S           1,12 Tichbordsurve share         U         U         S           Acetone         U         U         B           Acetone         U         U         B           Acetone         U         U         B           Acetone         U         U         B           Methylene chloride         U         U         U           Methylene chloride         U         U         U           Methylene chloride         U         U         U         S           Methylene chloride         U         U         U         S           Methylene chloride         U         U         U         S           Scholarde         U         U         U         S	Bromomethane	U*	U	U			5
Thebloroutharonembane         U         U         U         U         S           1-Delotopethane         U         U         U         S         S           1-Delotopethane         U         U         U         S         S           Acetone         U         U         U         S         S           Carbon disulfide         U         U         U         S         S           Mathylacetale         U         U         U         S         S           Mathylacetale         U         U         U         S         S           Mathylacetale         U         U         U         S         S           Stationon         U         U         U         S         S           Stationon         S         U         U         U         S           Cardon talsachtoride         U         U         U         S         S           Cardon talsachtoride         U         U         U         S         S           Cardon talsachtoride         U         U         U         S         S           Stationone         U         U         U         S         S     <	Chloroethane	U	Ŭ	U			5
11-Dicklosethere         U         U         U         U           Acetone         U         U         440         50           Acetone         U         U         440         50           Carbon disulfile         U         U         460         50           Methy acetate         U         U         U	Trichlorofluoromethane	Ŭ	U	U			5
11,2-Turkator.12,2-turkator	1 1-Dichloroethene	Ŭ	U	U			5
Acetons         U         U         440         50           Cathon disulfide         U         U         U         00           Methy acetate         U         U         U         U           Methy acetate         U         U         U	1.1.2-Trichloro-1.2.2-trifluoroethane	Ŭ*	Ŭ	Ū			5
Carbon disultide         U         U         U         0         00           Methyl actaba         U         U         U         0	Acetone	U	U	440			50
Methy Methylane choráchaUUUUMethylane chorácha2.1 JUUStrans 1.2 DichlorochaneUUUS1.1-DichlorochaneUUUS1.1-DichlorochaneUUUScis1.2.2-ChichorochaneUUUS2-SutanoneUUUSChoraform3.8 JUUS2-SutanoneUUUSCyclobexaneUUUSCarbon tetrachlorideUUUSBarzeneUUUSCarbon tetrachlorideUUUSInchlorochaneUUUS1.2-DichorophaneUUUS1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUUS1.1.2-DichlorophaneUUSS1.1.2-DichlorophaneUUSS1.1.2-DichlorophaneUUSS </td <td>Carbon disulfide</td> <td>U</td> <td>U</td> <td>U</td> <td>-</td> <td></td> <td>60 GV</td>	Carbon disulfide	U	U	U	-		60 GV
interby interboling toran 1.2-bioling toran 1.2-bioling 	Methyl acetate	ŭ	ŭ	U U			
man 1.2 clinitrosthereUUU5Hethylsten byle hereUUU10 GV1.1 clinitrosthereUUU52.8 utanoneUUU52.8 utanoneUUU52.8 utanoneUUU52.8 utanoneUUU52.9 utanoneUUU71.1 - TrichlorethaneUUU5Carlon tetrachlorideUUU5BanzeneUUU11.2 - DichlorographenUUU11.2 - DichlorographenUUU11.3 - DichlorographenUUU11.3 - DichlorographenUUU11.1 - TrichlorethaneUUU11.2 - DichlorographenUUU11.3 - DichlorographenUUU11.1 - TrichlorethaneUUU11.1 - TrichlorethaneUUU11.1 - TrichlorethaneUUU11.1 - TrichlorethaneUUU11.1 - TrichlorethaneUUU11.1 - TrichlorethaneUUU11.1 - TrichlorethaneUUU51.1 - TrichlorethaneUUU51.1 - TrichlorethaneUUS	Methylene chloride	21.1	ŭ	Ŭ			5
methy dethanUUU10 GV10 GVi-1 JochdrorethaneUUUScis-1 JochdrorethaneUUUSGal JochdrorethaneUUUSChlorotor36 JUUSChlorotor36 JUUSChlorotor36 JUUSChlorotor36 JUUGChlorotorJUUSCyclohexaneUUUSCorton terachlorideUUUJBanzeneUUUJTichlorotehneUUUJTichlorotehneUUUJJ.2.DichlorotoropaneUUUJTichlorotehneUUUJJ.3.DichloropropaneUUUJTasal.J.SichloropropeneUUUJTasal.J.SichloropropeneUUUJTasal.J.SichloropropeneUUUJTasal.J.SichloropropeneUUJJTasal.J.SichloropropeneUUUJTasal.J.SichloropropeneUUJJTasal.J.SichloropropeneUUJJJ.1.Z.TichlorotehneUUJJJ.2.DichloropropeneUUJJJ.1.SichloropropeneUUJJ<	trans 1 2-Dichloroethene	1	ŭ	U U			5
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	1.2 Dibromo 3 chloropropano	0	0	0			0.04
	1 2 4-Trichlorobenzene		11	1			5

NOTES: U: Compound analyzed for but not detected U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA Groundwater GV: Guidance Value ug/L = Micrograms per liter --: Not established

Standard or Guidance Value

# ATTACHMENT A



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

January 22, 2004

## Principals

Nicholas J. Bartilucci, P.E. President 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 Steven A. Fangmann, P.E. Vice President Theodore S. Pytlar, Jr. Vice President Senior Associates

## Anthony O. Conetta, P.E.

Dennis F. Koehler, P.E. Joseph H. Marturano John A. Mirando, P.E. Kenneth J. Pritchard, P.E. Brian M. Veith, P.E.

#### Associates

Joseph F. Baader Garrett M. Byrnes, P.E. 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 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) NYSDEC Contract No. D004264 Alarm System D&B No. 1851-2

Dear Mr. Sullivan:

This letter is in response to your letter dated January 8, 2004, describing problems with the auto dialer portion of the alarm system for the above-referenced site. After receiving this letter via facsimile on January 8, 2004, an on-site meeting among URS Corporation, J.K. Electric Inc. and this office was scheduled for January 9, 2004, to address the problems presented. The following summarizes the events that took place during this meeting.

Upon arriving on-site and entering the treatment system building on the morning of January 9, 2004, an intrusion alarm was initiated and conveyed through the auto dialer to the pager of URS Corporation (URS) Plant Operator, Mr. Greg Gangemi, immediately after detection. The alarm was then manually cleared from the auto dialer upon acknowledgement of the alarm by Mr. Gangemi. Later that morning, inspection of the extraction and treatment system revealed that the system controls were not operating correctly. For instance, a control relay mounted within the extraction and treatment system control panel, which relays a common system alarm from the control panel to the auto dialer, was not functioning as required upon alarm. As a result, the common system alarm (Alarm Point # 2) was consistently active, as indicated by the auto dialer, even though the extraction and treatment system was operational. Additionally, the pressure blower would not shut down after initiating a high-level alarm in the wet well. Upon explaining the operating conditions to a representative of the equipment manufacturer, Mr. Andrew Heinen of Carbonair<sup>o</sup>, we discovered an improper connection within the control relay expansion module of the extraction and treatment system programmable logic controller (PLC). As a result, it appeared the PLC was not communicating correctly with the entire system, causing the various system malfunctions.

## Dvirka and Bartilucci CONSULTING ENGINEERS

Kenneth Sullivan Project Manager URS Corporation January 22, 2004

After adjusting the connection within the control relay expansion module of the extraction and treatment system PLC at the direction of Carbonair<sup>©</sup>, the extraction and treatment system was restarted and the extraction and treatment system controls were operating as required under the various alarm conditions. At this time, the alarm system was tested and all alarms were conveyed through the auto dialer with the exception of the common system alarm (Alarm Point # 2). As this alarm point may have been compromised due to being constantly in alarm, Mr. Jim Kilcullen of J.K. Electric Inc. proceeded to reprogram the auto dialer to receive the extraction and treatment system alarm under an unused point number. The alarm system was then retested and all alarms, including the common system alarm, were conveyed through the auto dialer successfully.

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

Very truly yours,

Frank Pilita

Frank DeVita Project Manager

FDt/jmy,ld cc: J. Trad, NYSDEC K. Kaufman, URS J. Kilcullen, JK Electric T. Maher, D&B R. Heling, D&B •1851\FD04LTR.DOC-23(R01) Page Two

## LETTER OF TRANSMITTAL

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	DVIRKA	AND BARTILU	JCCI		Date:	20-May-04	Job N	o. 1851-05B			
	CONSUL	TING ENGINE	ERS		Attention: Jeffrey Trad						
	330 CROS	SSWAYS PARK URV NY 11797-	ADRIVE 2015		Re: N	YSDEC Contract	No. D004264	& D004275			
			-010		Si	te No. 1-30-050	ne				
	PHONE : FAX:	(516) 364 - 989 (516) 364 - 904	00 15	-		DEC	EIVI				
TO:	New York Bureau of Division o 625 Broad Albany, N	State Departm Construction S f Environmenta Iway, 12th Floor Y 12233-7013	ent of Environ ervices l Remediation	nmental Conserva	tion		2 4 2004				
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Should y	ou have an	y questions plea	se feel free to	contact me at (516	6) 364-9890.						
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If enclosures are not as noted , kindly notify us at once

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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

## June 21, 2004

#### Principals

Nicholas J. Bartilucci, P.E. President

Henry J. Chlupsa, P.E. Executive Vice President

Thomas F. Maher, P.E. Vice President

Robert T. Burns, P.E.

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Re: Franklin Cleaners Site (Site No. 1-30-050) NYSDEC Contract No. D004264 Quarterly Report No. 2 – December 9, 2003 through March 9, 2004 D&B No. 1851-05

Dear Mr. Trad:

The purpose of this letter is to summarize the operation and sampling of the groundwater extraction and treatment system, located approximately 1 mile south/ downgradient of the Franklin Cleaners Site (see Figure 1), for the period of December 9, 2003 through March 9, 2004. The information contained within this report is a compilation of monthly monitoring reports submitted by URS Corporation (URS) as per the requirements of the referenced contract, as well as additional split sampling performed by Dvirka and Bartilucci Consulting Engineers (D&B) as per the requirements of the approved Remedial Construction Inspection Work Plan Amendment, dated October 2003.

## **Groundwater Extraction and Treatment System Operation**

According to URS reports, extraction wells EW-1 and EW-2 operated at average pumping rates of 36.0 gallons per minute (gpm) and 3.8 gpm, respectively during the period. A total of 5,090,237 gallons of treated groundwater was discharged to the Nassau County Department of Public Works (NCDPW) storm sewer system.

During the period, the groundwater extraction and treatment system was inoperative for approximately 330 hours due to routine maintenance activities and system alarm conditions. A detailed description of system alarm conditions is provided in Attachment A. Jeffrey E. Trad, P.E. Bureau of Construction Services Division of Environmental Remediation New York State Department of Environmental Conservation June 21, 2004

## Groundwater Extraction and Treatment System Sampling

Samples were collected by URS from each of the two extraction well influent line sample taps, as well as from the air stripper discharge sample tap at a frequency of twice per month during the period. Each sample was analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method OLM04.2. The samples collected from the air stripper discharge sample tap were also analyzed for iron and manganese by USEPA Method 200.7 and field measured for pH. Split samples were collected by D&B on February 24, 2004, from one of the extraction well influent line sample taps and from the air stripper discharge sample tap. The split samples were analyzed for VOCs by USEPA Method OLM04.2. The air stripper discharge split samples were analyzed for iron and manganese by USEPA Method 200.7 and pH by SM 4500.

Sample results are shown in Tables 1 through 4. On the tables, the air stripper influent results are compared to Class GA Groundwater Standards and Guidance Values. The air stripper discharge results are compared to the effluent limitations defined in Table 01651-1 of the Contract Documents, as well as Class GA Groundwater Standards and Guidance Values. As can be seen from Tables 3 and 4, all of the air stripper discharge results for the period are below the effluent limitations. Approximately 4.6 pounds of tetrachloroethene (PCE) were removed by the low profile air stripper during the period. The average PCE removal efficiency for this period was 99.3 percent. Refer to Table 5, which presents a summary of the extraction and treatment system performance results since startup.

Vapor phase samples were collected by URS from the influent and effluent sample taps of each of the two carbon adsorption units at a frequency of once per week during the period. Each sample was collected by filling a Tedlar bag directly from the sampling taps and analyzed using a handheld photoionization detector (PID). The results are shown in Table 6. All PID readings were non-detect this period.

## **Groundwater Quality Data**

The network of five groundwater monitoring wells was sampled by URS to evaluate the effectiveness and optimize the operation of the groundwater extraction and treatment system. Samples were collected from ASMW-1, ASMW-2, ASMW-3, ASMW-4 and ASMW-5 on February 23 and 24, 2004, and analyzed for VOCs by USEPA Method OLM04.2. The locations of these wells are shown on Figure 2. A split groundwater sample was collected by D&B from ASMW-1 on February 23, 2004, and analyzed for VOCs by USEPA Method OLM04.2.

Analytical results for the monitoring well samples are shown in Table 7 and summarized on Figure 2. The results are compared to NYSDEC Class GA Groundwater Standards and Guidance Values. The samples collected from wells ASMW-1 and ASMW-2 exhibited concentrations of PCE above the

# Dvirka and Bartilucci

CONSULTING ENGINEERS

Jeffrey E. Trad, P.E. Bureau of Construction Services Division of Environmental Remediation New York State Department of Environmental Conservation June 21, 2004

standard of 5 micrograms per liter (ug/l). There were no other VOCs detected at concentrations above standards or guidance values. PCE concentrations in groundwater monitoring wells ASMW-1, ASMW-2 and ASMW-3 have declined since system startup. Refer to the attached trend line graphs summarizing PCE concentrations detected in samples collected from ASMW-1, ASMW-2 and ASMW-3.

## Conclusions

- System influent sample results show that the extraction wells are capturing VOC-contaminated groundwater.
- System effluent sample results show that the air stripper is effectively removing the captured VOCs to concentrations below the discharge criteria.
- Concentrations of tetrachloroethane have declined from 120 ug/l and 250 ug/l (11/25/03) in groundwater monitoring wells ASMW-1 and ASMW-2 to 66 ug/l and 51 ug/l, respectively. VOCs were not detected above standards or guidance values in the samples collected from groundwater monitoring wells ASMW-3, ASMW-4 and ASMW-5 during this period.

## Recommendations

- Operation of the groundwater extraction and treatment system should be continued.
- Consideration should be given to additional groundwater monitoring to confirm capture of the western edge of the plume.

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

Very truly yours,

Pelita

Frank DeVita Project Manager

FD/ld Enclosure cc: D. Glass, D&B J. Neri, H2M +1851\FD05144JET-LTR.DOC(R02)

FIGURES





									-			-					
	ATE SAMPLED	6/19/03	ASMW-1	/21/03	11/25	/03	02/23	3/04	DATE SA	MPLED		06/1	9/03	ASMW-2	10/21/03	11/25/03	02/23/04
G	ROUNDWATER ELEVATION (4)		24.79	24.59	24.5	9	25.3	8 0	GROUND	WATER ELEVA	TION (4)		-	24.66	24.26	24.36	24.36
C	OLLECTED BY	URS	URS	URS	URS	D&B	URS	D&B	COLLEC	TED BY		URS	D&B	URS	URS	URS	URS
		ND	251						Constitu	Jent II							
	,1-Dichloroethene Acetone	ND ND	2.5J ND	ND ND	ND	ND ND	ND	ND	1,1-Dic Acetone	hloroethene		ND ND	ND ND	1.8J ND	ND ND	ND ND	ND ND
N C	lethylene Chloride Chloroform	ND 1.2J	ND 1.3J	ND 1.3J	ND 1.2J	ND 1.0J	ND 1.8J	ND II	Methyle Chlorof	ne Chloride orm		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	,1,1—Trichloroethane	ND ND	ND ND	2.9J	1.7J	2.0J	ND ND	2J	1,1,1–T Bromod	richloroethan	e	ND	ND	ND	ND ND	ND ND	ND
	,1,2-Trichloroethane	ND 510D	ND 380D	ND 340D	ND	ND 170	ND	ND 1	1,1,2-T	richloroethan	e	ND 87	ND	ND	ND 140	ND	ND
	(ylene (total)	ND	ND	ND	ND	ND	ND	ND 3	Xylene	(total)		ND	ND	ND	ND	ND	ND
$\mathbb{N}$		A REAL PROPERTY AND A REAL		James	- COMPANY			1	- Mar	have and							
11	TAX LOT 36-C-221	1	The state of the s	ET.	and and a second	a course	and a state of the		North Street	The way was	4						
7	MERCY HOSPITAL ASSOCI	ATION 133	The second secon	VA.	12	4	Porto	t	«	The second se	and where	a.					
J.	***		ASM	₩-1 <sup>.</sup> ₩		Ew-	-2~~	1		~		-usu	un.				
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24	- +	the star		Nº 0		ASMV	V-2 <sup>N</sup>	[~~~~	Wax /	Alter annex	2U	THI		13 Mary			
	the second second		14	3/8	Ø	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12/2	and the second	~	8	S. S	- 11	PA		Mund	0	
	1 Charles			TI.		)	//	The same and			ASMW-	3	and a	STAT		C	0
	June June	2		10		F	and the second se	ALL REAL PROPERTY AND	5	$\rightarrow$	STAT	N/F E OF N	EW PORK		5 5.		0
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where a	and the second s	and a second	man to	/	1				NATE C		1.1.1	- 1	/07	ASMW-3	40.45.4		
and the second	munder and and		and a second	Ø	~/	/	and the second second		GROUND	WATER FIFVA	TION (4)	6/23	-	09/25/03 25.41	10/21/03 24.96	11/25/03 25.01	02/23/04
	And Calledon	- 412.12	· 30/		%			٥ <u>أ</u>	COLLEC	TED BY		UF	RS	URS	URS	URS	URS
RYAW ;	MEDICAL ANTRE	3 Bruny.			·	Y	00		Constitu	uent							
	The second second	All of the second	1/2			/		1	Methyl	tert-butyl et	her	1.	6J	ND	ND	ND	ND
	- I	- Store	i alla			100		~	Acetone		1.1	Ň	ID ID	ND	ND	ND	ND
	100	Microso -	myner of a		1		0		Chlorof	orm	1.1	N	ID	ND	ND ND	ND ND	ND ND
	TAY LOT 38-C-210	Mark Ballery .	S M		/	R	7	»~ I	1,1,1–1 Bromod	richloroethane	e ne	N	ID ID	ND ND	ND 1.0J	ND ND	ND ND
	INA COL 00-0-215 -		/*//		Y	_ /		1	1,1,2–T Tetrach	richloroethane loroethene	e	N 2	D 3	ND 13	ND 1.4J	ND 2.1J	ND 1.7J
1.1			1-3/1		10	° k	40	2	Xylene	(total)		N	ID	ND	ND	ND	ND
			1º	12 °	1.1		12	Y	11	11 1	./ /	1	7/6)	A		~1	S15
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		/						/	2-	STORY	17	2/1	-	Contraction of the second	m	- Le	~ /
		/	and the state of the	_		ASMW-	-4		BA	line 1	N N	_	N,		y In		1 /
		DATE S	AMPLED	6/23/	03	09/25	/03	10/21/	/03	11/25/03	02/24	/04		Å	KU ~	GURDELY HALL	6 X
		GROUN	DWATER ELEVATION	(4) URS		22.3	3	22.23	3	23.33	22.23	3			ī¢/	MACK BURDEND	AD
		Constit	tuent	- Once		0113		013		010	UKS			4	A.P		11 15/
		/ 1,1-Di	chloroethene	ND		ND		ND		ND	ND			~	Y	Pre-	1101
12.12	29	Aceton Methyle	e ane Chloride	ND ND		ND ND		ND ND		ND ND	ND ND				1	VC-	51 41
	Concerner reasons of the second secon	Chlorot	form Trichloroethane	4.4 ND		ND ND		4.0J	,	3.0J	ND					d	511
		Bromo	dichloromethane Trichloroethane	ND		ND		ND		ND	ND						7 20
	the second se	Tetraci	hloroethene	ND		ND		ND		ND	ND		Land			1	1201
		/				ND		ЧN		NU			7				100
		DATE S	AMPLED	6/27/	03	ASMW-	-5	10/21	/03	11/25/07	02/24	/04	/				1
	/	GROUN	DWATER ELEVATION	(4)	00	23.4	3	23.33	3	22.63	24.13	3	4				
	/	COLLEC	CTED BY	URS	5	URS		URS		URS	URS		/				
	/	Constit	tuent										1				
	/	1,1-Di Aceton	chloroethene le			ND ND		ND ND		ND 440	ND ND		/	TAX LOT	36-C-104D	) &c	
	/	Methyle	ene Chloride form	ND		2.1.	J	ND		ND ND	ND 2.2	,	1	104E MOL	LOY CATHO		
		1,1,1-	Trichloroethane dichloromethane	ND		ND		ND		ND	ND	-		LIBER 698	S9 PAGE 5	S85	
	/	1,1,2-	Trichloroethane	ND		ND		ND		ND	ND				e s we have the		
	ASIAN	Xylene	(total)	ND		ND		ND		1.0J	ND ND						
	ASMW-4 40 ASM	W-5				Moo		•	/								
						wic c	1-1	9	L								
												-	GI	ROUNDWATER	MONITORING WE	ELLS	
															GRO	DUND T	TOP OF

WELL NUMBER	WELL DEPTH (TOC)	SCREEN LENGTH	GROUND SURFACE ELEVATION (4)	TOP OF CASING ELEVATION (4)
ASMW_1	00' 0"	10' 0"	47.88	47.10

.

ABBREVIATIONS: D - DILUTED J - ESTIMATED ND - NOT DETECTED NOTES: 1. GROUNDWATER SAMPLES ANALYZED BY USEPA METHOD OLM 04.2 2. RESULTS REPORTED ONLY FOR COMPOUNDS DETECTED ABOVE MDL. 3. RESULTS ARE REPORTED IN MICROGRAMS PER LITER (ug/I) 4. MEASURED IN FEET ABOVE MEAN SEA LEVEL	1         90'-0"         10'-0"           2         90'-0"         10'-0"           3         90'-0"         10'-0"           4         110'-0"         10'-0"           5         133'-0"         10'-0"	47.88         47.19           46.74         46.16           47.13         48.81           44.11         43.93           44.42         44.03
<ol> <li>GROUNDWATER SAMPLES ANALYZED BY USEPA METHOD OLM 04.2</li> <li>RESULTS REPORTED ONLY FOR COMPOUNDS DETECTED ABOVE MDL.</li> <li>RESULTS ARE REPORTED IN MICROGRAMS PER LITER (ug/l)</li> <li>MEASURED IN FEET ABOVE MEAN SEA LEVEL</li> </ol>	LEGEND: GROUNDV GROUNDV CONTRIGATION SUPPLY FORMER	VATER MONITORING WELL VATER EXTRACTION WELL VN WELL WELL GROUNDWATER PROBE
∎⊓ Dvirka	0 SCALE	120 240 IN FEET
MONITORING WELL LOCATION MAP AND SUMMARY C Bartilucci CONSULTING ENGINEERS THROUGH FEBRUARY 2004	SCALE	IN FEET

#### TABLE 1 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 RESULTS OF ANALYSIS OF EW-1 INFLUENT

	SYSTEM INFLUENT							
SAMPLE ID	(EW-1)	NYSDEC CLASS GA						
SAMPLE TYPE	WATER	GROUNDWATER						
DATE OF COLLECTION	9/23/03	9/23/03	10/7/03	10/21/03	11/4/03	11/18/03	12/10/03	STANDARDS AND
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS	GUIDANCE VALUES
UNITS	(ug/L)							
VOCs								
Dichlorodifluoromethane	U	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	U	5
Vinyl chloride	U	U	U	U	U	U	U	2
Bromomethane	U	U	U	U	U	U	U	5
Chloroethane	U	U	U	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5
1.1-Dichloroethene	2.4 J	U	U	U	U	U	U	5
1.1.2-Trichloro-1.2.2-trifluoroethane	U	U	U	U	U	U	Ū	5
Acetone	Ŭ	U	U	U	Ŭ	Ŭ	Ŭ	50
Carbon disulfide	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	U	60 GV
Methyl acetate	Ŭ	Ŭ	Ŭ	Ŭ	Ū	Ŭ	U	
Methylene chloride	LI*	Ŭ	Ŭ	Ŭ	ŭ	ŭ	U	5
trans 1 2-Dichloroethene	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	ŭ	Ű	5
Methyl-tert butyl ether	Ŭ	U	Ű	U	Ŭ	ŭ	0.97.1	10 GV
1 1-Dichloroethane	Ŭ	U	U	Ŭ	Ŭ	ŭ	11	5
cis-1 2-Dichloroethene	Ŭ	U	Ű	Ŭ	Ŭ	ŭ	U U	5
2-Butanone	U U	U U	U U	U U	Ŭ	Ŭ	Ŭ II	50 GV
Chloroform	161	11	11	U	11	U	U U	7
1 1 1-Trichloroethane	1.0 0	11	U U	U	U	U	Ŭ	5
Cyclobeyane	201	11	1	U	U U	0	U U	0
Carbon tetrachloride	2.0 0	1	U U	U		U	U U	5
Benzene	0	1	11	U	0	0	U U	1
1.2 Dichloroethana	0	0	0	0	0	0	U	1
Trichloroethane	0.66 1	0	0	0	0	0	U	5
Methylovelobexano	141	0	0	0	0	0	U	5
1.2 Dichloropropopo	1.4 J	0	0	0	0	0	U	
Remediableremethene	0	0	0	0	0	0	0	50
sis 1.2 Disbloropropopo	0	0	0	0	0	0	0	50
4 Methyl 2 poptenene	0	0	0	0	0	0	0	0.4
Teluene	0	0	0	0	0	111	U	
trans 1.2 Disblerenzanen	0	U	0	0	0	1.1 J	U	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	0.4
Tetrachlereethene	500 D	200 D	140	120	170	120	120	5
	500 D	300 D	140	130	170	120	120	5
2-Hexanone	0	U	U	U	0	U	U	50 GV
Dibromochioromethane	U	U	U	U	0	U	U	50
1,2-Dibromoethane	U	U	U	U	U	U	U	5
Chlorobenzene	U	U	U	U	U	U	U	5
Ethylbenzene	U	U	U	U	U	U	U	5
Xylene (total)	U	U	U	U	U	4.4 J	U	5
Styrene	U	U	U	U	U	U	U	5
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	0.78 J	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	U	U	U	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	0.04
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	5
NOTES:								and a second second second

U: Compound analyzed for but not detected U\*: Result qualified as non-detect based on validation criteria

D. Desuit taken from some leiter based off validation chieft

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated

ug/L = Micrograms per liter GV: Guidance Value - Second quarter results shaded

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

--: Not established

#### TABLE 1 (Continued) FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 RESULTS OF ANALYSIS OF EW-1 INFLUENT

	SYSTEM INFLUENT							
SAMPLE ID	(EW-1)	NYSDEC CLASS GA						
SAMPLE TYPE	WATER	GROUNDWATER						
DATE OF COLLECTION	12/16/03	12/30/03	1/13/04	1/27/04	2/10/04	2/24/04	2/24/04	STANDARDS AND
COLLECTED BY	URS	URS	URS	URS	URS	URS	D&B	GUIDANCE VALUES
UNITS	(ug/L)	(ug/L)	(ua/L)	(ua/L)	(ug/L)	(ug/L)	(ua/L)	
VOCs	(9/	(-3:-/	(3: -/	(-5-7	(-5/	(-3/	(-9-7	
Dichlorodifluoromethane	U	U	U	U	U	U	U	5 GV
Chloromethane	Ŭ	Ŭ	U	Ŭ	Ŭ	U	U	5
Vinvl chloride	Ŭ	Ŭ	Ŭ	U	Ŭ	U	U	2
Bromomethane	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ū	5
Chloroethane	Ŭ	Ŭ	U	U	Ŭ	Ŭ	Ū	5
Trichlorofluoromethane	Ŭ	Ū.	Ũ	Ŭ	Ŭ	Ū	U	5
1 1-Dichloroethene	Ŭ	Ŭ	Ū	U	Ŭ	Ŭ	U	5
1 1 2-Trichloro-1 2 2-trifluoroethane	Ŭ	Ŭ	Ŭ	Ŭ	ŭ	Ŭ	ŭ	5
Acetone	U U	Ŭ	Ŭ.	Ű	Ŭ	Ŭ	U U	50
Carbon disulfide	U U	Ŭ	Ŭ	Ŭ	ŭ	Ŭ	ŭ	60 GV
Methyl acetate	U U	Ŭ	Ŭ	Ŭ	ŭ	Ŭ	Ŭ	
Methylene chloride	U U	Ŭ	Ű	U U	Ŭ	Ŭ.	ŭ	5
trans 1 2-Dichloroethene	U U	U U	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	5
Methyl-tert butyl ether	0.98.1	U U	Ŭ	U	Ŭ	Ŭ	Ű	10 GV
1 1-Dichloroethane	0.00 0	U U	Ŭ	Ŭ	Ŭ	Ŭ	Ű	5
cis-1 2-Dichloroethene	U U	Ŭ	Ŭ	Ű	ŭ	Ŭ Ŭ	Ű	5
2-Butanone	U U	Ŭ Ŭ	Ű	U U	Ŭ	Ŭ	Ű	50 GV
Chloroform	U U	Ŭ	Ŭ	U U	Ŭ	Ŭ	Ű	7
1 1 1-Trichloroethane	U U		U	U U	U U	U U	U U	5
Cyclobeyane			U U	0	U U	11	U U	5
Carbon tetrachloride		U U	U U	U	U	U U	Ű	5
Benzene			Ŭ	U U	Ŭ	11	11	1
1.2-Dichloroethane			U	U	U U	U	U U	1
Trichloroethene		U U	U U	U	Ŭ	U	11	5
Methylcyclobexane	U U		U U	Ŭ	Ŭ	Ŭ	U U	
1.2-Dichloropropage		U U	U	U	Ŭ	U	Ű	1
Bromodichloromethane		U U	U U	U	Ŭ	U U	U U	50
cis-1 3-Dichloropropene	U U	U	Ŭ	Ŭ	Ŭ	Ŭ	Ű	0.4
4-Methyl-2-pentanone	1	U U	Ŭ	U	Ŭ	Ŭ	Ŭ	
Toluene		11	U	U	U U	U	U U	5
trans_1_3_Dichloronronene	U U	11	1	U U	Ŭ	11	U U	0.4
1 1 2-Trichloroethane	U U	Ŭ	Ŭ	U U	Ŭ	Ŭ	Ŭ	1
Tetrachloroethene	140	91	58	48	74	45	81	5
2-Hexanone	110	11	11	10		11	11	50 GV
Dibromochloromethane		11	U	11	U U	U	U U	50
1.2-Dibromoethane		U	U	U	Ŭ	Ŭ	Ŭ	5
Chlorobenzene	U U	U U	0	U	U U	U	U	5
Ethylbenzene		11	U	U	U	U U	U U	5
Xylene (total)	0	U	0	U	U	U	U U	5
Styropo	U U	0	0	U	U	U		5
Bromoform	U	0	0	0	0	U	U	50 GV
Isopropylbenzene		U	U	U	U	1	11	5
1 1 2 2 Totrachloracthana	U U	0	0	0	0	U	U	5
1.3 Dichlorobonzono	0	0	0	0	0	0	0	2
1.4 Dichlerabonzona	U	0	0	U	0	0	0	3
1.2 Dichlorobonzono	U	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dibiomo-3-chioropropane	U	U	U	U	U	U	0	0.04
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U	5

NOTES:

U: Compound analyzed for but not detected

U\*: Result qualified as non-detect based on validation criteria

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

J: Compound found at a concentration below CRDL, value estimated

ug/L = Micrograms per liter GV: Guidance Value

--: Not established

- Second quarter results shaded

D: Result taken from reanalysis at a secondary dilution

#### TABLE 2 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 **RESULTS OF ANALYSIS OF EW-2 INFLUENT**

	SYSTEM INFLUENT							
SAMPLE ID	(EW-2)	NYSDEC CLASS GA						
SAMPLE TYPE	WATER	GROUNDWATER						
DATE OF COLLECTION	9/23/03	9/23/03	10/7/03	10/21/03	11/4/03	11/18/03	12/10/03	STANDARDS AND
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS	GUIDANCE VALUES
UNITS	(ug/L)							
VOCs								
Dichlorodifluoromethane	U	U	U	U	U	U		5 GV
Chloromethane	U	U	U	U	U	U	U	5
Vinyl chloride	U	U	U	U	U	U	U	2
Bromomethane	U	U	U	U	U	U	U	5
Chloroethane	U	U	U	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5
1,1-Dichloroethene	U	2 J	1.3 J	1.2 J	U	1.3 J	1.4 J	5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	5
Acetone	U	U	U	U	U	U	U	50
Carbon disulfide	U	U	U	U	U	U	U	60 GV
Methyl acetate	U	U	U	U	U	U	U	
Methylene chloride	U*	U	U	U	U	U	Ú	5
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	5
Methyl-tert butyl ether	U	U	U	U	U	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	5
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	5
2-Butanone	U	U	U	U	U	U	U	50 GV
Chloroform	U	1 J	1.5 J	1.5 J	1.3 J	1.5 J	1.5 J	7
1,1,1-Trichloroethane	U	U	U	U	U	1.2 J	1.3 J	5
Cyclohexane	U	U	U	U	U	U	U	
Carbon tetrachloride	U	U	U	U	U	U	U	5
Benzene	U	U	U	U	U	U	U	1
1,2-Dichloroethane	U	U	U	U	U	U	U	1
Trichloroethene	U	2 J	0.75 J	U	U	U	U	5
Methylcyclohexane	U	U	U	U	U	U	U	
1,2-Dichloropropane	U	U	U	U	U	U	U	1
Bromodichloromethane	U	U	U	U	U	U	U	50
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	0.4
4-Methyl-2-pentanone	U	U	U	U	U	U	U	
Toluene	U	U	U	U	U	U	U	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	0.4
1,1,2-Trichloroethane	U	U	U	U	U	U	U	1
Tetrachloroethene	160 D	840 D	440 D	700 D	750 D	540 D	670 D	5
2-Hexanone	U	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	U	50
1,2-Dibromoethane	U	U	U	U	U	U	U	5
Chlorobenzene	U	U	U	U	U	U	U	5
Ethylbenzene	U	U	U	U	U	U	U	5
Xylene (total)	U	U	U	U	U	4.4 J	U	5
Styrene	U	U	U	U	U	U	U	5
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	U	U	Ú	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	0.04
1,2,4-Trichlorobenzene	Ŭ	U	U	U	U	U	U	5
NOTES:								

U: Compound analyzed for but not detected U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated

ug/L = Micrograms per liter GV: Guidance Value

- Second quarter results shaded

Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values

--: Not established

#### TABLE 2 (Continued) FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 RESULTS OF ANALYSIS OF EW-2 INFLUENT

	SYSTEM INFLUENT							
SAMPLE ID	(EW-2)	NYSDEC CLASS GA						
SAMPLE TYPE	WATER	GROUNDWATER						
DATE OF COLLECTION	12/16/03	12/30/03	1/13/04	1/27/04	2/10/04	2/24/04	2/24/04	STANDARDS AND
COLLECTED BY	URS	URS	URS	URS	URS	URS	D&B	GUIDANCE VALUES
UNITS	(ug/L)							
VOCs								
Dichlorodifluoromethane	U	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	U	5
Vinyl chloride	U	U	U	U	U	U	U	2
Bromomethane	U	U	U	U	U	U	U	5
Chloroethane	U	U	U	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	U	U	U	5
1,1-Dichloroethene	1.3 J	1.3 J	1.1 J	1.3 J	1.5 J	1.6 J	1 J	5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U	5
Acetone	U	U	U	U	U	U	U	50
Carbon disulfide	U	U	U	U	U	U	U	60 GV
Methyl acetate	U	U	U	U	U	U	U	
Methylene chloride	U	U	U	U	U	U	U	5
trans 1,2-Dichloroethene	U	U	U	U	U	U	U	5
Methyl-tert butyl ether	U	U	U	U	U	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	5
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	5
2-Butanone	U	U	U	U	U	U	U	50 GV
Chloroform	1.5 J	1.4 J	1.0 J	1.1 J	U	1.6 J	1 J	7
1,1,1-Trichloroethane	1.2 J	U	1.1 J	1.1 J	1.1 J	U	1 J	5
Cyclohexane	U	U	U	U	U	U	U	
Carbon tetrachloride	U	U	U	U	U	U	U	5
Benzene	U	U	U	U	U	U	U	1
1,2-Dichloroethane	U	U	U	U	U	U	U	1
Trichloroethene	U	U	U	U	U	U	U	5
Methylcyclohexane	U	U	U	U	U	U	U	
1,2-Dichloropropane	U	U	U	U	U	U	U	1
Bromodichloromethane	U	U	U	U	U	U	U	50
cis-1,3-Dichloropropene	U	U	U	U	U	U	U	0.4
4-Methyl-2-pentanone	U	U	U	U	U	U	U	
Toluene	U	U	U	U	U	U	U	5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U	0.4
1,1,2-Irichloroethane	U	U	U	U	U	U	U	1
letrachloroethene	570 D	510 D	400 D	250 D	390 D	310 D	490 D	5
2-Hexanone	U	U	U	U	U	U	U	50 GV
Dibromochloromethane	U	U	U	U	U	U	U	50
1,2-Dibromoethane	U	U	U	U	U	U	U	5
Chlorobenzene	U	U	U	U	U	U	U	5
Ethylbenzene	U	U	U	U	U	U	U	5
Xylene (total)	U	U	U	U	U	U	U	5
Styrene	U	U	U	U	U	U	U	5
Bromoform	U	U	U	U	U	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	U	U	U	3
1,4-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U	0.04
1,2,4-Irichlorobenzene	U	U	U	U	U	U	U	5
NOTES								

U: Compound analyzed for but not detected

U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA Groundwater Standards or Guidance Values ug/L = Micrograms per liter GV: Guidance Value

--: Not established

- Second quarter results shaded

### TABLE 3 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 RESULTS OF ANALYSIS OF AIR STRIPPER EFFLUENT FOR VOCs

	SYSTEM								
SAMPLE ID	EFFLUENT		NYSDEC CLASS GA						
SAMPLE TYPE	WATER	EFFLUENT LIMITATIONS	GROUNDWATER						
DATE OF COLLECTION	9/23/03	9/23/03	10/7/03	10/21/03	11/4/03	11/18/03	12/10/03		STANDARDS AND
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS		GUIDANCE VALUES
UNITS	(ug/L)								
Dichlorodifluoromethane	U	U	U	U	U	U	U		5 GV
Chloromethane	U	U	U	U	U	U	U		5
Vinyl chloride	U	U	U	U	U	U	U		2
Bromomethane	U	U	U	U	U	U	U		5
Chloroethane	U	U	U	U	U	U	U		5
Trichlorofluoromethane	U	U	U	U	U	U	U		5
1,1-Dichloroethene	U	U	U	U	U	U	U		5
1,1,2-Trichloro-1,2,2-trifluoroethane	U	U	U	U	U	U	U		5
Acetone	U	U	U	U	U	U	U		50
Carbon disulfide	U	U	U	U	U	U	U		60 GV
Methyl acetate	U	U	U	U	U	U	U		
Methylene chloride	U	U	U*	U	U	U	U		5
trans 1,2-Dichloroethene	U	U	U	U	U	U	U		5
Methyl-tert butyl ether	U	U	U	U	U	U	U		10 GV
1,1-Dichloroethane	U	U	U	U	U	U	U	10	5
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	10	5
2-Butanone	U	U	U	U	U	U	U		50 GV
Chloroform	U	U	U	U	U	U	U		7
1,1,1-Trichloroethane	U	U	U	U	U	U	U	10	5
Cyclohexane	U	U	U	U	U	U	U		
Carbon tetrachloride	U	U	U	U	U	U	U		5
Benzene	U	U	U	U	U	U	U		1
1,2-Dichloroethane	U	U	U	U	U	U	U		1
Trichloroethene	U	U	U	U	U	U	U	10	5
Methylcyclohexane	U	U	U	U	U	U	U		
1.2-Dichloropropane	U	U	U	U	U	U	U		1
Bromodichloromethane	U	U	U	U	U	U	U		50
cis-1,3-Dichloropropene	U	U	U	U	U	U	U		0.4
4-Methyl-2-pentanone	U	U	U	U	U	U	U	-	_
Toluene	U	U	U	U	U	2.1 J	U		5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U		0.4
1.1.2-Trichloroethane	U	U	U	U	U	U	U		1
Tetrachloroethene	U	U	U	Ŭ	U	Ŭ	U	5	5
2-Hexanone	U	U	U	U	U	Ŭ	Ŭ	<u>_</u>	50 GV
Dibromochloromethane	ũ	Ŭ	U	Ŭ	Ū	Ŭ	Ű		50
1.2-Dibromoethane	ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	U		5
Chlorobenzene	Ŭ	ŭ	Ŭ	ŭ	Ŭ	ŭ	ii ii		5
Ethylbenzene	ŭ	Ŭ	Ŭ	ŭ	Ŭ	13 J	Ŭ		5
Xvlene (total)	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	8.1 J	U		5
Styrene	ŭ	Ŭ.	U.	Ŭ	U U	11	Ц		5
Bromoform	U U	U				U	ŭ		50 GV
Isopropylbenzene	U	U U	U	U	U U	U	11		5
1 1 2 2-Tetrachloroethane	0	U	U	0	0	0	U		5
1 3-Dichlorobenzene	1	0	0	0	0	0	0		2
1 4-Dichlorobenzene	0	0	0	0	0	U	U		2
1.2-Dichlorobenzenc	0	0	0	0	0	0	0		3
1.2-Dibromo-3-chloropropago	0	0	0	0	0	0	U		0.04
1.2.4 Trichlorobonzono	0	0	U	U	0	U	U		0.04
1,2,4-Thomorobenzene	U	U	U	U	U	U	U		5

NOTES:

U: Compound analyzed for but not detected

Concentration exceeds NYSDEC Class GA Groundwater Standards and Guidance Values

- Second quarter results shaded

U\*: Result qualified as non-detect based on validation criteria --: Not established

J: Compound found at a concentration below CRDL, value estimated ug/L = Micrograms per liter

#### TABLE 3 (Continued) FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 RESULTS OF ANALYSIS OF AIR STRIPPER EFFLUENT FOR VOCs

	SYSTEM								
SAMPLE ID	EFFLUENT		NYSDEC CLASS GA						
SAMPLE TYPE	WATER	- EFFLUENT LIMITATIONS	GROUNDWATER						
DATE OF COLLECTION	12/16/03	12/30/03	1/13/04	1/2//04	2/10/04	2/24/04	2/24/04	-	STANDARDS AND
	URS		URS	URS	URS	URS	D&B	(	GUIDANCE VALUES
Dishlaradifluaramethana	(ug/L)	5.01/							
Chloromothana	U		U		U		U		SGV
Vipul oblorido	U		U	U	U		U	-	5
Bromomothana	0	0	0	0	U	U	U	-	2
Bromomethane	U	0	U	U	U	U	U		5
Tricklassflussessethers	0	0	U		U	0	U		5
	0	U	0	U	U	U	0		5
1,1-Dichloroethene	U		0	U	U	U	U		5
1,1,2-1 richioro-1,2,2-trifiuoroethane	U		U	U	U	U	U		5
Acetone	U		0	U	U	U	0		50
Carbon disulfide	U	U	U	U	U	U	U		60 GV
Methyl acetate	U	U	U	U	U	U	U		
Methylene chloride	U	U	U	U	U	U	U		5
trans 1,2-Dichloroethene	U	U	U	U	U	U	U		5
Methyl-tert butyl ether	U	U	U	U	U	U	U	-	10 GV
1,1-Dichloroethane	U	U	0	U	U	U	U	10	5
cis-1,2-Dichloroethene	U	U	U	U	U	U	U	10	5
2-Butanone	U	U	U	U	U	U	U		50 GV
Chloroform	U	U	U	U	U	U	U		7
1,1,1-Irichloroethane	U	U	U	U	U	U	U	10	5
Cyclohexane	U	U	U	U	U	U	U		
Carbon tetrachloride	U	U	U	U	U	U	U		5
Benzene	U	U	U	U	U	U	U		1
1,2-Dichloroethane	U	U	U	U	U	U	U		1
Irichloroethene	U	U	U	U	U	U	U	10	5
Methylcyclohexane	U	U	U	U	U	U	U		-
1,2-Dichloropropane	U	U	U	U	U	U	U		1
Bromodichloromethane	U	U	U	U	U	U	U		50
cis-1,3-Dichloropropene	U	U	U	U	U	U	U		0.4
4-Methyl-2-pentanone	U	U	U	U	U	U	U	-	-
loluene	U	U	U	U	U	U	U		5
trans-1,3-Dichloropropene	U	U	U	U	U	U	U		0.4
1,1,2-Trichloroethane	U	U	U	U	U	U	U		1
Tetrachloroethene	U	U	U	U	U	U	1 J	5	5
2-Hexanone	U	U	U	U	U	U	U	-	50 GV
Dibromochloromethane	U	U	U	U	U	U	U		50
1,2-Dibromoethane	U	U	U	U	U	U	U		5
Chlorobenzene	U	U	U	U	U	U	U		5
Ethylbenzene	U	U	U	U	U	U	U	-	5
Xylene (total)	U	U	U	U	U	U	U		5
Styrene	U	U	U	U	U	U	U		5
Bromoform	U	U	U	U	U	U	U	-	50 GV
Isopropylbenzene	U	U	U	U	U	U	U		5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	U		5
1,3-Dichlorobenzene	U	U	U	U	U	U	U		3
1,4-Dichlorobenzene	U	U	U	U	U	U	U		3
1,2-Dichlorobenzene	U	U	U	U	U	U	U		3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	U		0.04
1,2,4-Trichlorobenzene	U	U	U	U	U	U	U		5
NOTES:									

U: Compound analyzed for but not detected

Concentration exceeds NYSDEC Class GA Groundwater Standards and Guidance Values

- Second quarter results shaded

U\*: Result qualified as non-detect based on validation criteria --: Not established

J: Compound found at a concentration below CRDL, value estimated ug/L = Micrograms per liter

## TABLE 4 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 RESULTS OF ANALYSIS OF AIR STRIPPER EFFLUENT IRON, MANGANESE AND pH

[	SYSTEM	- •						
SAMPLE ID	EFFLUENT							
SAMPLE TYPE	WATER	EFFLUENT LIMITATIONS						
DATE OF COLLECTION	9/23/03	9/23/03	10/7/03	10/21/03	11/4/03	11/18/03	12/10/03	
COLLECTED BY	URS	D&B	URS	URS	URS	URS	URS	
UNITS	(ug/L)							
METALS								
Iron	64.6	85.9	191	953	35.9	49.6	395	1000
Manganese	29	34.7	28.1	38.3	29.4	36.3	41.6	1000
pH (S.U.)	5.17	7.60	6.64	6.49	7.57	7.5	7.57	6.5 to 8.5

NOTES:

Concentration exceeds effluent limitations per Table 01651-1 of the Contract Documents ug/L: Micrograms per liter

- Second quarter results shaded

#### TABLE 4 (Continued) FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 RESULTS OF ANALYSIS OF AIR STRIPPER EFFLUENT IRON, MANGANESE AND pH

SAMPLE ID	SYSTEM EFFLUENT	EFFLUENT LIMITATIONS AND MONITORING						
SAMPLE TYPE	WATER	REQUIREMENTS PER TABLE 01651-1 OF THE						
DATE OF COLLECTION	12/16/03	12/30/03	1/13/04	1/27/04	2/10/04	2/24/04	2/24/04	CONTRACT DOCUMENTS.
COLLECTED BY	URS	URS	URS	URS	URS	URS	D&B	(
	(ug/L)							
Iron	115	60.4	308	127	26.0.1	245 1	34.5	1000
Manganese	38.9	36.5	127	127	45.6	A7 7	53.7	1000
nH (S II)	7.0	7.5	73	82	7.8	82	7.5	6.5 to 8.5
рН (S.U.)	7.0	7.5	7.3	8.2	7.8	8.2	7.5	6.5 to 8.5

NOTES:

Concentration exceeds effluent limitations per Table 01651-1 of the Contract Documents J: Compound found at a concentration below CRDL, value estimated ug/L: Micrograms per liter - Second quarter results shaded

#### TABLE 5 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 EXTRACTION AND TREATMENT SYSTEM PERFORMANCE RESULTS

		P							-
	SYSTEM INFLUENT	SYSTEM INFLUENT	SYSTEM INFLUENT	SYSTEM INFLUENT	SYSTEM EFFLUENT		ESTIMATED	ESTIMATED	ESTIMATED
	(EW-1) AVERAGE	(EW-1) PCE	(EW-2) AVERAGE	(EW-2) PCE	PCE	PCE REMOVAL	AVERAGE PCE	SYSTEM	CUMULATIVE PCE
DATE OF SAMPLE	EXTRACTION RATE	CONCENTRATION	EXTRACTION RATE	CONCENTRATION	CONCENTRATION	EFFICIENCY	REMOVAL RATE	RUNTIME	REMOVAL <sup>(2)</sup>
COLLECTION (1)	(gpm)	(ug/l)	(gpm)	(ug/l)	(ug/l)	(%)	(lb/hr)	(hr)	(lbs)
9/23/03	36.50	500 D	4.20	160 D	< 0.5	99.89	9.48E-03	329	3.12
10/7/03	34.40	140	4.80	440 D	< 0.5	99.63	3.47E-03	283	4.10
10/21/03	37.50	130	4 20	700 D	< 0.5	99.63	3.91E-03	349	5.46
11/4/03	39.20	170	4.00	750 D	< 0.5	99.71	4.84E-03	261	6.73
11/18/03	36.80	120	4.60	540 D	< 0.5	99.58	3.46E-03	248	7.58
12/10/03	36.48	120	3.90	670 D	< 0.5	99.60	3.50E-03	485	9.28
12/16/03	35.10	140	4 20	570 D	< 0.5	99.64	3.66E-03	59	9.50
12/30/03	36.40	91	340	510 D	< 0.5	99.48	2.53E-03	334	10.34
1/13/04	36.50	58	3.90	400 D	< 0.5	99.20	1.84E-03	237	10.78
1/27/04	37.10	48	3.00	250 D	< 0.5	99.01	1.01E 00	262	11 11
2/10/04	35.70	74	4 10	390 D	< 0.5	99.34	2 12E-03	278	11.70
2/24/04	34.70	45	4.10	310 D	< 0.5	08.04	1.43E-03	332	12.18
2/24/04	34.70	43	4.20	310 D	< 0.5	30.30	1.432-00	352	12.10
					-				
		· · · · · · · · · · · · · · · · · · ·							
	and the second sec								

## NOTES:

1. Data as reported by URS Corporation.

2. PCE removal calculations as of September 9, 2004 system start-up date.

3. Second quarter performance results are shaded.

#### ABBREVIATIONS:

D: Indicates that values were taken from a dilution run gpm: gallons per minute ug/L: micrograms per liter lb/hr: pounds per hour

## TABLE 6 FRANKLIN CLEANERS SITE NYSDEC CONTRACT No. D004264 / SITE No. 1-30-050 VAPOR PHASE SAMPLE RESULTS

	CARBON VESSEL NO. 1	CARBON VESSEL NO. 1	CARBON VESSEL NO. 2	CARBON VESSEL NO. 2
	INFLUENI	EFFLUENI	INFLUENT	EFFLUENT
			AIR	AIR
UNITS	(npm)	(ppm)	(nnm)	(nnm)
	(PP)	(ppiii)	(ppiii)	(ppiii)
DATE OF COLLECTION	PID Reading	PID Reading	PID Reading	PID Reading
September 9, 2003	0.0	0.0	0.0	0.0
September 16, 2003	0.0	0.0	0.0	0.0
September 23, 2003	0.0	0.0	0.0	0.0
September 30, 2003	0.0	0.0	0.0	0.0
October 7, 2003	0.0	0.0	0.0	0.0
October 14, 2003	0.0	0.0	0.0	0.0
October 21, 2003	0.0	0.0	0.0	0.0
October 28, 2003	0.0	0.0	0.0	0.0
November 4, 2003	0.0	0.0	0.0	0.0
November 11, 2003	0.0	0.0	0.0	0.0
November 18, 2003	0.0	0.0	0.0	0.0
November 25, 2003	0.0	0.0	0.0	0.0
December 2, 2003	0.0	0.0	0.0	0.0
December 9, 2003	0.0	0.0	0.0	0.0
December 16, 2003	0.0	0.0	0.0	0.0
December 23, 2003	0.0	0.0	0.0	0.0
December 30, 2003	0.0	0.0	0.0	0.0
January 6, 2004	0.0	0.0	0.0	0.0
January 13, 2004	0.0	0.0	0.0	0.0
January 20, 2004	0.0	0.0	0.0	0.0
January 27, 2004	0.0	0.0	0.0	0.0
February 3, 2004	0.0	0.0	0.0	0.0
February 10, 2004	0.0	0.0	0.0	0.0
February 17, 2004				-
February 24, 2004			-	
March 2, 2004	0.0	0.0	0.0	0.0
March 9, 2004	0.0	0.0	0.0	0.0

## NOTES:

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Samples were collected by filling a Tedlar bag at each of the sampling locations. Samples were tested using a handheld photoionization detector.

-- Contractor indicates that handheld photoionization detector used during sampling event determined to have dirty sensors resulting in erroneous readings which were not consistent with historical data.

\* - Second quarter results shaded

SAMPLE ID	ASMW-1	ASMW-1	ASMW-1	ASMW-1	ASMW-1	ASMW-1	NYSDEC CLASS CA
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	CROUNDWATER
DATE OF COLLECTION	6/23/03	9/25/03	10/21/03	11/25/03	11/25/03	2/23/04	STANDARDS AND
COLLECTED BY	URS	URS	URS	URS	D&B	URS	STANDARDS AND
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	GUIDANCE VALUES
VOCs						and the state of the state of the	
Dichlorodifluoromethane	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	5
Vinvl chloride	Ŭ	U	U	U	U	U	2
Bromomethane	Ū	U	U	U	U	U	5
Chloroethane	Ŭ	U	U	U	U	U	5
Trichlorofluoromethane	Ŭ	U	U	Ū	Ŭ	U	5
1 1-Dichloroethene	Ū Ū	25.1	Ū Ū	1.3 J	U	1.7 J	5
1 1 2-Trichloro-1 2 2-trifluoroethane	Ŭ	L.0 0	Ū Ū	U	Ŭ	U	5
Acetone	Ŭ	Ŭ	U U	Ŭ	ŭ	U	50
Carbon disulfide	Ŭ	U	U U	Ŭ	ŭ	Ū.	60 GV
Methyl acetate	U U	11	U U	Ŭ	U U	Ŭ	
Methylene chloride	U U	U	U U	U U	U U	II.	5
trans 1.2-Dichloroethene	U U	U	11	U U	U U	Ű	5
Methyl tert butyl ether	U U	11			U U	Ŭ.	10 GV
1 1 Dichloroethane	U U	1	U U	U U	U U	U U	5
ris 1.2 Dichloroethene		11	1	U U		Ŭ Ŭ	5
2 Rutanono	U U	11				U U	50 GV
Chloroform		131	131	121	101	181	7
1 1 1 Trichloroothana	12 1	1.5 5	201	1.2.5	201	1.0 0	5
I, I, I-Inchloroethane	1.2 J	0	2.9 J	1.7 5	2.0 5	U U	5
Cyclonexarie	0	0	0	0		U U	5
Panzona	0	0		0		U	1
Delizene	0	0	0	0	0	U	1
Trichlereethene	0	0		0	0	U	5
Methodevelabovana	0	0		0	0	U	5
1 2 Dichloronronono	0	0		0		U II	1
I,2-Dichloroproparie	0	0		0	0	U	50
biomodichioromethane	0	0		0	0	U	0.4
A Mathul 2 nontanana	0	0		0	0	U	0.4
4-Methyl-2-pentanone	0	0	0	0		U	5
trans 1.2 Disblarances	0	0	0	0		U	0.4
1 1 2 Trichloroothana	0	0			0	U	0.4
Totraphereothene	510 D	280 D	240 D	120	170	66	
	510 D	300 D	340 D	120	110	00	50 GV
2-Hexanone	0	U		0	0	U	50 60
	U	U	0	0	0	U	50
1,2-Dibromoethane	U	0		0	0	U	5
Chlorobenzene	U	U		0		U	5
Etnylbenzene	U	U		0	0	U	5
Xylene (total)	U	U	0	0	0	U	5
Styrene	U	U	U	U	0	U	5
Bromotorm	U	0	U		U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	U	U	3
1,4-Dichlorobenzene	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	0.04
1,2,4-Trichlorobenzene	U	U	U	U	J U	U	5
NOTES:							

U: Compound analyzed for but not detected

J: Compound found at a concentration below CRDL, value estimated

D: Result taken from reanalysis at a secondary dilution

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value ug/L = Micrograms per liter --: Not established

- Second quarter results shaded

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GV: Guidance Value

SAMPLE ID	ASMW-1			
SAMPLE TYPE	WATER			NYSDEC CLASS GA
DATE OF COLLECTION	2/23/04			GROUNDWATER
COLLECTED BY	D&B			STANDARDS AND
UNITS	(ua/L)			GUIDANCE VALUES
VOCs	(-3 -1			
Dichlorodifluoromethane	U			5 GV
Chloromethane	Ū			5
Vinvl chloride	U			2
Bromomethane	U			5
Chloroethane	U			5
Trichlorofluoromethane	U			5
1 1-Dichloroethene	2 J			5
1.1.2-Trichloro-1.2.2-trifluoroethane	U			5
Acetone	U			50
Carbon disulfide				60 GV
Methyl acetate	Ū			
Methylene chloride	U			5
trans 1.2-Dichloroethene	II THE REAL PROPERTY OF THE RO			5
Methyl-tert butyl ether	Ŭ			10 GV
1 1-Dichloroethane	U.			5
cis-1 2-Dichloroethene	The second s			5
2-Butanone	II.			50 GV
Chloroform	2.1			7
1 1 1-Trichloroethane	2.1			5
Cyclohexane	11			-
Carbon tetrachloride	I			5
Benzene				1
1 2-Dichloroethane	11			1
Trichloroethene				5
Methylcyclobexane	II III III III III III III III III III			
1.2-Dichloropropane				1
Bromodichloromethane	II			50
cis-1 3-Dichloropropene	U. State			0.4
4-Methyl-2-pentanone	U			
Toluene	U.S. S.			5
trans-1.3-Dichloropropene	U			0.4
1.1.2-Trichloroethane	Ŭ			1
Tetrachloroethene	87			5
2-Hexanone	U IIII			50 GV
Dibromochloromethane	U			50
1 2-Dibromoethane	U Contraction			5
Chlorobenzene	U Contraction of the second			5
Ethylbenzene	U			5
Xylene (total)	U			5
Styrene	U			5
Bromoform	Ū.			50 GV
Isopropylbenzene	U			5
1.1.2.2-Tetrachloroethane				5
1.3-Dichlorobenzene	i i i i i i i i i i i i i i i i i i i			3
1 4-Dichlorobenzene				3
1 2-Dichlorobenzene				3
1 2-Dibromo-3-chloropropane	U U			0.04
124-Trichlorobenzene	Ŭ.			5
NOTES:				
U: Compound analyzed for but not detected		Concentration exceeds NYSDEC Class	s GA Groundwater ug/L: Micrograms	s per liter

U: Compound analyzed for but not detected

J: Compound found at a concentration below CRDL, value estimated

D: Result taken from reanalysis at a secondary dilution

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

--: Not established

- Second quarter results shaded

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GV: Guidance Value

SAMPLE ID	ASMW-2	ASMW-2	ASMW-2	ASMW-2	ASMW-2	ASMW-2	
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	WATER	NYSDEC CLASS GA
DATE OF COLLECTION	6/19/03	6/19/03	9/25/03	10/21/03	11/25/03	2/23/04	GROUNDWATER
COLLECTED BY	URS	D&B	URS	URS	URS	URS	STANDARDS AND
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	GUIDANCE VALUES
VOCs	× • /						
Dichlorodifluoromethane	U	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	U	5
Vinvl chloride	Ŭ	U	U	U	U	Ū	2
Bromomethane	U	U	U	Ū	U	Ū	5
Chloroethane	Ŭ Ŭ	Ŭ	Ŭ	Ŭ	U U	Ű	5
Trichlorofluoromethane	Ŭ.	Ŭ	Ű	Ŭ Ŭ	U U	й П	5
1 1-Dichloroethene	U U	U	181	U U	U U	II.	5
1 1 2 Trichloro 1 2 2 trifluoroethane	U U	0	1.0 0	U U		U U	5
Acetano	0	0	0	0	0	U	5
Carbon digulfido	0	0	0	0		U	50
Mathul asstate	0	0	U	0	0	U	60 GV
Methylacetate	U	U	0	U		U	
	U	U	U	0	0	U	5
trans 1,2-Dichloroethene	U	U	U	U	U	U	5
Methyl-tert butyl ether	U	U	U	U	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	U	5
cis-1,2-Dichloroethene	U	U	U	U	U	U	5
2-Butanone	U	U	U	U	U	U	50 GV
Chloroform	U	U	U	U	U	U	7
1,1,1-Trichloroethane	U	U	U	U	U	U	5
Cyclohexane	U	U	U	U	U	U	
Carbon tetrachloride	U	U	U	U	U	U	5
Benzene	U	U	U	U	U	U	1
1,2-Dichloroethane	U	U	U	U	U	U	1
Trichloroethene	U	U	U	U	U	U	5
Methylcyclohexane	U	U	U	U	U	U	
1,2-Dichloropropane	U	U	U	U	U	U	1
Bromodichloromethane	U	U	U	U	U	U	50
cis-1.3-Dichloropropene	U	U	U	U	U	U	0.4
4-Methyl-2-pentanone		Ū	U	U	U	Ŭ	
Toluene		Ŭ	ŭ	Ū.	U	U	5
trans-1 3-Dichloropropene		ũ	Ŭ	Ū.	Ū.	U	0.4
1.1.2-Trichloroethane	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	1
Tetrachloroethene	87	79	250 D	140	250 D	51	5
2-Hevanone			11		11	11	50 GV
Dibromochloromethane	U U	0	0	0		U U	50
1.2 Dibromoethane	U U	U	0	U U		U II	5
Chlorohonzono	0	0	0	0		0	5
Ethylhonzone	0	0	U	0		U	5
	0	U	U	0		U	5
Aylene (total)	U	U	U	0	0	U	5
Styrene	U	U	U	U	0	U	5
Bromotorm	U	U	U	0	U	U	50 GV
Isopropylbenzene	U	U	U	U	U	U	5
1,1,2,2-Tetrachloroethane	U	U	U	U	U	U	5
1,3-Dichlorobenzene	U	U	U	U	U	U	3
1,4-Dichlorobenzene	U	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U	U	0.04
1,2,4-Trichlorobenzene	U	U	U	U	U		5
NOTES:			and a general second	and the second second			
U: Compound analyzed for but not detected		Concentration	on exceeds NYSDEC C	lass GA Groundwater	ug/L = Micr	rograms per liter	

U: Compound analyzed for but not detected

J: Compound found at a concentration below CRDL, value estimated

D: Result taken from reanalysis at a secondary dilution

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

--: Not established

- Second quarter results shaded

GV: Guidance Value

SAMPLE ID	ASMW-3	ASMW-3	ASMW-3	ASMW-3	ASMW-3	
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	
DATE OF COLLECTION	6/23/03	9/25/03	10/21/03	11/25/03	2/23/04	GROUNDWATER
COLLECTED BY	URS	URS	URS	URS	URS	
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	GUIDANCE VALUES
VOCs						
Dichlorodifluoromethane	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	5
Vinyl chloride	U	U	U	U	U	2
Bromomethane	U	U	U	U	U	5
Chloroethane	U	U	U	U	U	5
Trichlorofluoromethane	U	U	U	U	U	5
1,1-Dichloroethene	U	U	U	U	U	5
1.1.2-Trichloro-1.2.2-trifluoroethane	U	U	U	U	U	5
Acetone	Ū	Ū	U	Ŭ	U	50
Carbon disulfide	Ŭ	Ŭ	Ŭ	Ū	U U	60 GV
Methyl acetate	U	Ŭ	Ū	U	U	
Methylene chloride	Ŭ	U	Ū	Ŭ	U	5
trans 1.2-Dichloroethene	Ŭ	Ŭ	Ŭ	Ŭ	U.S.	5
Methyl-tert butyl ether	1.6 J	Ŭ	ŭ	Ŭ	U	10 GV
1.1-Dichloroethane	U U	Ŭ	Ŭ.	Ŭ Ŭ	II.	5
cis-1 2-Dichloroethene	Ŭ	Ŭ	U U	U U	I share the H	5
2-Butanone	U U	Ŭ	U U	Ŭ Ŭ	U U	50 GV
Chloroform	Ŭ	Ŭ	U U	ŭ	U U	7
1 1 1-Trichloroethane	U U	Ű	U U	Ŭ Ŭ	U U	5
Cyclohexane	U U	Ŭ	U U	Ŭ Ŭ	U U	
Carbon tetrachloride	U U	U U	U U	U U	U U	5
Benzene	Ŭ	Ű	Ŭ Ŭ	Ŭ Ŭ	II	1
1 2-Dichloroethane	u u	U	U U	Ŭ.	II II	1
Trichloroethene	u u	U	U U	U U	U U	5
Methylcyclohexane	U U	U U	U U	U U	U U	
1 2-Dichloropropane	ŭ	U	U U	Ŭ Ŭ	U U	1
Bromodichloromethane	u u	U U	10.1	U U	U U	50
cis-1 3-Dichloropropene	ŭ	Ŭ	1.0 0	U U	Ŭ	0.4
4-Methyl-2-pentanone	Ŭ Ŭ	U U	U U	u u	II.	0.4
Toluene	u u	Ű	U U	U U	U U	5
trans-1.3-Dichloropropene	Ŭ Ŭ	11		U U	U U	0.4
1 1 2-Trichloroethane	ŭ	Ŭ	Ŭ Ŭ	Ŭ Ŭ	U U	1
Tetrachloroethene	23	13	14.1	21.1	17 .	5
2-Hexanone				11	and the second second second	50 GV
Dibromochloromethane	U U	U		U U	U U	50 0 0
1 2-Dibromoethane	U U	U		U U	U U	5
Chlorobenzene	U U	11			U U	5
Ethylbenzene		U			U U	5
Xylene (total)			0		U U	5
Styrene		0	0		U U	5
Bromoform		0	0	0	U	50 CV
Isopropylbenzene		0			U	50 GV
1 1 2 2 Tetrachloroothano		0	0	0	U U	5
1 3-Dichlorobenzene	0	0	0	0	U	5
1.4 Dichlorobonzono	0	U	0	0	U U	3
1.2 Dichlerohonzono	0	U	0	0		3
1.2 Dibromo 2 oblazanzanana	0	U	0		0	3
1.2.4 Trichlershonzono	0	U	0	0	U	0.04
NOTES	U	U	U	UU	0	5

SAMPLE ID	ASMW-4	ASMW-4	ASMW-4	ASMW-4	ASMW-4	
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	NYSDEC CLASS GA
DATE OF COLLECTION	6/23/03	9/25/03	10/21/03	11/25/03	2/24/04	GROUNDWATER
COLLECTED BY	URS	URS	URS	URS	URS	STANDARDS AND
UNITS	(ug/L)	(ua/L)	(ug/L)	(ua/L)	(ug/L)	GUIDANCE VALUES
VOCs						
Dichlorodifluoromethane	U	U	U	U	U	5 GV
Chloromethane	U	U	Ū	U	U	5
Vinvl chloride	Ū Ū	U	U U	Ū.	<b>U</b>	2
Bromomethane	Ú Ú	U	Ū.	ŭ	U	5
Chloroethane	l ū l	U	U	ŭ	U	5
Trichlorofluoromethane	Ū Ū	U	U U	Ŭ Ŭ	U U	5
1.1-Dichloroethene	Ū Ū	Ŭ	Ŭ	Ŭ Ŭ	Ŭ	5
1 1 2-Trichloro-1 2 2-trifluoroethane	u u	U U	U U	U U	Ŭ,	5
Acetone	Ŭ Ŭ	U U	L U	U*	U U	50
Carbon disulfide	Ŭ Ŭ	U		U U	U U	60 GV
Methyl acetate				U U	U U	00.01
Methylene chloride	U U	U U	U U		U U	5
trans 1.2-Dichloroethene	U U	11	0		U U	5
Methyl-tert hutyl ether	U U				U	10 CV
1 1-Dichloroethane	U U		U U	U U	U U	10 3 4
cis-1 2-Dichloroethene	U U	11	0		U U	5
2-Butanone	0	0			U	50 CV
Chloroform		0	101	201	U U	50 GV
1 1 1 Trichloroothana	4.4 5	0	4.0 5	3.0 5	<b>U</b>	7
Cyclobeyane		0	0			5
Carbon tetrachloride		0	0		U	
Benzene		0	0		U II	5
1.2 Dichleroothana		U	0		<b>U</b>	
Trichlereethene		U	0		U	5
Methylcyclobexano		0	0		U U	5
1 2 Dichleropropago		0	0		U U	-
Bromodichloromethane		0	0		U	50
cis_1 3-Dichloropropene		0	0		U U	50
4 Methyl 2 pontanono		0	0		U U	0.4
Toluono		U	0		U U	
trans 1.2 Disblarantanana		U	0			5
1 1 2 Trichloroothono		U	0		U U	0.4
Totrachlaraethana		U	0		U U	
		U	0	0	U	5
Dibromochleremethene		U	0		U	50 GV
1.2 Dibromochoronethane		U			U	50
Chlorobonzono		U		0	U U	5
Chlorobenzene		0	0	0	Ü	5
		U	U	0	U	5
Aylene (total)		U	U	U	U	5
Styrene		U	U	U	U	5
Bromotorm	U	U	U	U	U	50 GV
Isopropyibenzene	0	U	U	U	U	5
1, 1, 2, 2-1 etrachioroethane	0	U	0	U	U	5
	U	U	U	U	U	3
	U	U	U	U	U	3
1,2-Dichlorobenzene	U	U	U	U	U	3
1,2-Dibromo-3-chloropropane	U	U	U	U	U de la companya de l	0.04
	U	U	U	U	U	5

NOTES: U: Compound analyzed for but not detected

U\*: Result qualified as non-detect based on validation criteria

D: Result taken from reanalysis at a secondary dilution

J: Compound found at a concentration below CRDL, value estimated Concentration exceeds NYSDEC Class GA Groundwater GV: Guidance Value ug/L = Micrograms per liter

--: Not established

- Second quarter results shaded

Standard or Guidance Value

SAMPLE ID	ASMW-5	ASMW-5	ASMW-5	ASMW-5	ASMW-5	
SAMPLE TYPE	WATER	WATER	WATER	WATER	WATER	NYSDEC CLASS GA
DATE OF COLLECTION	6/23/03	9/25/03	10/21/03	11/25/03	2/24/04	GROUNDWATER
COLLECTED BY	URS	URS	URS	URS	URS	STANDARDS AND
UNITS	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	GUIDANCE VALUES
VOCs						
Dichlorodifluoromethane	U	U	U	U	U	5 GV
Chloromethane	U	U	U	U	U	5
Vinvl chloride	Ŭ	Ū	U	Ŭ	Ũ	2
Bromomethane	Ŭ	ũ	U U	Ŭ	H	5
Chloroethane	U U	Ŭ	U U	U U	U U	5
Trichlorofluoromethane	Ŭ Ŭ	U	U U	U U	Ŭ	5
1 1-Dichloroethene	Ŭ Ŭ	U	U U	U U	11	5
1 1 2-Trichloro-1 2 2-trifluoroethane	Ŭ Ŭ	U	U U	U U	Ŭ	5
Acetone	Ŭ	11	U U	440	<b>1</b>	50
Corbon digulfido	U U	0		440	-	50
Mathul asstate		U	0	0	U U	60 GV
Methylane shlarida		0	0	0	U	-
Methylene chloride	U	2.1 J	0	0	U	5
trans 1,2-Dichloroethene	U	U	0	U	U	5
Methyl-tert butyl ether	U	U	0	U	U	10 GV
1,1-Dichloroethane	U	U	U	U	U	5
cis-1,2-Dichloroethene	U	U	U U	U	U	5
2-Butanone	U	U	U	U	U	50 GV
Chloroform	U	3.6 J	U	U	2.2 J	7
1,1,1-Trichloroethane	U	U	U	U	U	5
Cyclohexane	U	U	U	U	U	
Carbon tetrachloride	U	U	U	U	U	5
Benzene	U	U	U	U	U	1
1,2-Dichloroethane	U	U	U	U	U	1
Trichloroethene	U	U	U	U	U	5
Methylcyclohexane	U	U	U	U	U	
1,2-Dichloropropane	U	U	U	U	U	1
Bromodichloromethane	U	U	U	U	U	50
cis-1,3-Dichloropropene	U	U	U	U	U	0.4
4-Methyl-2-pentanone	U	U	U	U	U	
Toluene	U	U	U	U	U	5
trans-1,3-Dichloropropene	U	U	U	U	U	0.4
1.1.2-Trichloroethane	U	U	U	U	U	1
Tetrachloroethene	U	U	U	U	U	5
2-Hexanone	Ŭ	U	U	Ú Ú	U	50 GV
Dibromochloromethane	Ŭ	U	Ŭ	U U	U	50
1 2-Dibromoethane	Ŭ Ŭ	ŭ	l ŭ	i ü	II.	5
Chlorobenzene	U U	U U	i ii	l ü		5
Ethylbenzene	U U	U U	i ii		Ŭ.	5
Xylene (total)	U U	11		101	Ŭ	5
Styrene	0	0		1.0 5	Ŭ	5
Bromoform	0	0			U U	50 CV/
biomoioim	0	0				50 GV
1 1 2 2 Totrophleroothero	U	U	0	0	U	5
1.2 Dioblershanzana		0	0	0		5
	U	U	0	0	U	3
	0	0	0	0	U	3
	0	0	0	0	U	3
1,2-Dibromo-3-chloropropane	0	U	0	0	U	0.04
1,2,4-1 richlorobenzene	U		U U	U	第二のなどのである。	5
NUTES:						
O: Compound analyzed for but not detected		Concentrat	ion exceeds NYSDEC C	lass GA Groundwater	ug/L = Micrograms per liter	

J: Compound found at a concentration below CRDL, value estimated D: Result taken from reanalysis at a secondary dilution

Concentration exceeds NYSDEC Class GA Groundwater Standard or Guidance Value

--: Not established

- Second quarter results shaded

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GV: Guidance Value







G:/FDevita/Projects/Franklin\_Cleaners/NYSDEC Contract No. D004264 - GW Treatment System/Quarterly Reports/Second Quarter/GW Monitoring Well Trend Graphs Chart 1

**GRAPH 2** 



G:/FDevita/Projects/Franklin\_Cleaners/NYSDEC Contract No. D004264 - GW Treatment System/Quarterly Reports/Second Quarter/GW Monitoring Well Trend Graphs Chart 4

**GRAPH 3** 



G:/FDevita/Projects/Franklin\_Cleaners/NYSDEC Contract No. D004264 - GW Treatment System/Quarterly Reports/Second Quarter/GW Monitoring Well Trend Graphs Chart 5



# System Operations

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Client:	NYSDEC			
Project:	Franklin Cleaners Site			

Shut-off Date/Time	Restart Date/Time	Type of Alarm	Actions Taken
9-11-03 / 0830	9-11-03 / 0900	None	Auto-dialer test
9-16-03 / 1100	9-16-03 / 1600	None	Plant shutdown for blower painting
9-19-03 / unknown	9-16-03 / 0930	"High" Wet Well Alarm	Auto-dialer did not make calls, plant restarted
9-23-03 / 1030	9-23-03 / 1530	None	connected air line hoses for EW-1 and EW-2
9-24-03/ unknown	9-24-03 / 0700	"High" Wet Well Alarm	Auto-dialer did not make calls, plant restarted
9-24-03 / 0900	9-24-03 / 1500	None	Roof waterproofing
9-30-03 / unknown	9-30-03 / 0730	"High" Wet Well Alarm	Auto-dialer did not make calls, plant restarted
9-30-03 / 1530	9-30-03 / 1630	None	Cleaning of flow totalizer
10-02-03 / 0830	10-02-03 / 1530	None	Installation of rain edge
10-24-03 / unknown	10-27-03 / 0700	"High" Wet Well Alarm	Auto-dialer did not make calls, plant restarted
10-30-03 / 0800	10-30-03 / 1100	Wet Well Leak Test	Performed test then restarted GWTP
11-04-03 / 1200	11-04-03 / 1400	Wet Well Leak Test	Performed test then restarted GWTP
11-07-03 / 0800	11-07-03 / 1200	Wet Well Leak Test	Performed test then restarted GWTP
11-17-03 / unknown	11-17-03 / 1630	"High" Wet Well Alarm	Auto-dialer did not make calls, plant restarted
11-17-03 / 1300	11-17-03 / 1630	EW-1 Shutdown	Purged PTMW-3 into EW-1, Restart EW-1
11-18-03 / 0800	11-18-03 / 1600	Floor painting and	Restart plant after work
		PTMW-3 development	
12-09-03 / 1000	12-09-03 / 1300	PLC changeout and plant	Restart plant after work
10 11 00 1		maintenance	
12-14-03 / unknown	12-15-03 / 1500	EW-2 Fail	Auto-dialer did not make calls, reset EW-2
12-15-03/0700	12-15-03 / 1500	None	Performed test then restarted GWTP
12-30-03 / unknown	01-02-04 / 0945	"High" Wet Well Alarm	Auto-dialer did not make calls, reset EW-2
01-03-04 / unknown	01-06-04 / 0950	EW-2 Fail	Auto-dialer did not make calls, reset EW-2
01-06-04 / 1250	01-08-04 / 0930	EW-2 Fail	Auto-dialer did not make calls, reset EW-2
01-09-04 / 0800	01-09-04 / 1100	None	Auto-dialer Correction/Testing by JK Electric
01-19-04 / 0100	01-19-04 / 1400	"High" Wet Well Alarm	Flygt pump #2 overheat indicator, plant restarted
01-20-04 / 0300	01-20-04 / 1030	"High" Wet Well Alarm	Plant restarted, troubleshoot Flygt pump #2
01-21-04/0730	01-21-04 / 1010	"High" Wet Well Alarm	Slightly opened valve vault check valve,
01 29 04 / 1420	04 20 04 / 4200		adjusted mercury switch, plant restarted
02.01.04 / 1430	01-30-04 / 1300	"High" Wet Well Alarm	Plant restarted
02-01-0471100	02-01-04/1600	"High" Wet Well Alarm	Plant restarted
02.01.04 / 2200	02.02.04 / 0000		Scheduled yearly maintenance service for Flygt pump,
02-01-04/2300	02-02-04 / 0900	"High" Wet Well Alarm	Plant restarted
02-02-04 / 1300	02-02-04/2200	High Wet Well Alarm	Plant restarted
02-03-04 / 1120	02-03-04/2130	High Wet Well Alarm	Plant restarted
02-06-04 / 1000	02-05-04 / 1500	None	Restart Flygt pump # 2
02-00-047 1000	02-00-047 1100	None	Pumping Services performed yearly maintenance service
02-07-04 / 0300	02-07-04 / 1500	"High" \A/at \A/all Alarm	for Flygt pump #2, plant restarted after service
02-07-04 / 2100	02-07-04 / 1300	"High" Wet Well Alarm	Flygt pump #2 overheat indicator, plant restarted
	02-00-047 1100	right wet wen Alann	Senices for Elvet nump #2 condea
02-09-04 / 1110	02-09-04 / 1150	None	Renlace broken blower flow switch (Dunier 1/8 Eletect)
02-11-04 / 0800	02-11-04 / 1000	None	Performed post-construction site walk
02-19-04 / 0800	02-19-04 / 1000	None	Pumning Services replaced Mini-CA7 base. Restart plant
02-24-04 /1500	02-24-04 / 1630	None	Purge water from MW sampling introduced to air stripper
		110110	i digo mator nom mit sampling introduced to an Sulpper

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