

MAR 13 2002

March 12, 2002

Mr. Carl Hoffman, P.E.
New York Department of Environmental Conservation
Operation and Maintenance Section -- Bureau of Hazardous Site Control
Division of Environmental Remediation
625 Broadway
11th Floor
Albany, New York 12233 - 7016

Re: **ServAll Laundry Site**
Bay Shore, Suffolk County
Site No. 1-52-077, Work Assignment No. D003821-19
Monthly Report November/December 2001-Site Shut Down

Dear Mr. Hoffmann:

This is the Monthly Report for November/December 2001, the tenth monthly report submitted under Work Assignment No. D003821-19

The plant processed a total volume of 2,969,940 gallons of water at an average flow rate of 100.59 GPM for the month of November. In this sampling event the total influent volatile organic compounds (VOCs) concentration was 24.60 ppb (see discussion below regarding blank correction). Most compounds detected in the influent sample fell into the chlorinated solvent category, as would be expected with groundwater impacts arising from a dry cleaning operation. The plant removed approximately 73.6 percent of the influent VOCs. No iron was detected in the system influent or effluent sample during this sampling event. The effluent manganese concentration was 649 ppb, which is above the discharge criteria of 600 ppb. This result is consistent with historical sampling results for manganese.

Review of the laboratory report for this sampling round found acetone, methylene chloride, methyl-tert-butyl-ether(MTBE), cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene to be present at concentrations of 3, 1, 4, 0.7, 0.9 and 19 ug/L, respectively, for the influent sample. In the effluent sample acetone, methylene chloride, MTBE, chloroform, bromodichloromethane, tetrachloroethene, and dibromochloromethane were found to be present at concentrations of 4, 0.4, 2, 0.8, 0.7, 3, and 0.2 ug/L, respectively.

Based on telephone conversations Earth Tech had with Severn Trent Laboratories, in February 2001, methylene chloride, MTBE, and acetone are all common laboratory contaminants for this laboratory. USEPA data validation procedures state, that when contamination is seen in a laboratory method blank, trip blank, or field blank, a factor of ten times the blank concentration for a common laboratory contaminant is used to "correct" sample results. For other blank contaminants, a factor of five times the blank concentration is used to "correct" sample results.



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The table below presents a summary of the blank results and there associated sample results.

Compound	Laboratory Blank Concentration	Trip Blank	Effluent Concentration	Influent Concentration	UV-OX
methyl-tert-butyl-ether	ND	ND	2	4	2
Methylene chloride	1.31	2	0.4	1	0.8
Acetone	2.71	5	4	3	5
Chloroform	ND	ND	0.8	ND	ND
Bromodichloromethane	ND	ND	0.7	ND	ND
Dibromochloromethane	ND	ND	0.2	ND	ND

ND: Non Detect

When evaluating the performance of the water treatment system the sample results for methylene chloride and acetone shown in the table above were "blank corrected" and negated. This correction was made, since the concentrations of methylene chloride and acetone found in the samples were lower than ten times the associated laboratory blank results for these compounds.

As shown in the table above, MTBE was present in both the influent and effluent samples, but not in any of the associated blanks. Earth Tech reported in the February 2001 monthly summary report that the presence of MTBE, in the samples associated with that report, was the result of laboratory contamination. The blank data for this sampling event does not support that same conclusion. To be conservative the MTBE concentration present in the influent was included in the total volatile organics calculation, and when calculating the overall contaminant reduction efficiency.

Chloroform is not a common laboratory contaminant, and it was not found to be present in any of the blanks analyzed with the samples. To be conservative the chloroform concentration present in the effluent sample was included in the total volatile organics calculation, and when calculating the overall contaminant reduction efficiency.

Halomethane compounds (i.e. bromodichloromethane, dibromochloromethane, etc.) are not common laboratory contaminants, or historical contaminants of concern at the site. In March, in a telephone conversation with Mr. Jeffery Curran, the Laboratory Director at Severn Trent Laboratories, he stated in regard to this contamination, that halomethane compounds are not laboratory contaminants. As the table above illustrates the two halomethane compounds listed above were shown to be present in the system effluent sample, however they were not found to be present in the influent sample or any of the blanks associated with the samples. Therefore it can be reasoned that these compounds are being produced by the system. Halomethane compounds are usually associated with chlorination practices, which in a small degree do occur at the plant when sodium hypochlorite is added to the water as a buffer. Because there is no support for

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laboratory contamination with halomethanes, to be conservative the results for these compounds in the effluent sample were included in the total volatile organics calculation, and when calculating the overall contaminant reduction efficiency. However, the concentration of these halomethane compounds that are present in the effluent sample do not exceed the New York State Department of Environmental Conservation's Technical & Operational Guidance Series 1.1.1 (TOGS 1.1.1) Groundwater Standards. Therefore, the presence of these compounds in the effluent sample is not considered a concern.

The typical effluent pH range at the plant is between 6 and 9 SU. The pH seen in the influent was within that range with a value of 6.1. The effluent pH was also within the range (pH = 7.2). The overall effluent water quality data (TSS, Total Solids, Alkalinity, and pH) were consistent with historical laboratory and daily on-site monitoring data.

The following non-routine, system maintenance activities were conducted by H2M during the reporting period:

- On 11/28/01 the final monthly samples were taken and sent to Severn Trent Laboratory via Federal Express Overnight Delivery. The remediation system was shut down.
- Cataloging of on-site equipment and conditions began on 12/4/01.
- Sludge handling activity began on 12/17/01.
- On 12/24/01 filter press operation was continued to dewater sludge from holding tank #13.
- On 12/27/01 a waste sludge sample was collected for disposal characterization analysis.
- Eastern Environmental Solutions removed 1,760 gallons of 50% hydrogen peroxide and 600 gallons of 25% sodium hydroxide, which were shipped to Clean Water of New York on 12/28/01.
- On 1/7/02 the filter press was cleaned.
- A vector truck transported six cubic yards of waste sludge off site for disposal. Eastern Environmental Solutions removed 2,500 gallons of 93% sulfuric acid, which were sent to Biro, Inc (Medford, NY) and 55 gallons of hydrochloric acid, which was shipped to E.B. Stimpson Co. Inc. (Bayport, NY) on 1/8/02.



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- On 1/9/02, 1/10/02 and 1/11/02 the system was drained and cleaned. All chemical storage tanks and chemical metering pumps were rinsed and labeled with the date they were taken out of service.
- The potable supply piping valve was closed and water was flushed from interior potable water pipes on 1/25/02. The site was closed and locked.

A complete list of all maintenance activities for this month are in the attached operations and maintenance letter summary submitted by the H2M Group dated January 31, 2002.

If you have any questions or comments regarding this report please feel free to contact me at (518) 951-2310.

Very truly yours,



C. Brett Mongillo
Manager Chemistry and Sampling Services
Earth Tech, Inc.

Enclosures

Servall Laundry
Site No. 1-52-077
Groundwater Remediation -2001 Operation and Maintenance

Summary Report

Plant Operating Data		unit	Monthly Average (to date)	Monthly Average (2001)	February-01	March-01	April-01	May-01	June-01
Flow Rate		gpm	115	117	146.1	144.11	129.22	101.99	100.64
Gallons processed		gallons	3369269	3150390	1,706,490	5,546,940	4,526,670	326,040	1,710,410
Percent of Time Operating		%	1	1	790%	92%	68%	5%	26%
Pounds of VOCs Treated		lb	1	0	0.09	0.41	0.37	NA	0.15
Influent VOC concentration		ug/L	94	17	8.1	14.79	22.43	NA	10.53
Effluent VOC concentration		ug/L	8	5	2.1	6.01	12.54	NA	0
Influent Total Iron		ug/L	1549	177	0	210	240	NA	0
Effluent Total Iron		ug/L	288	0	0	0	0	NA	0
Influent Total Manganese		ug/L	731	737	756	874	815	NA	862
Effluent Total Manganese		ug/L	589	723	766	870	813	NA	866
VOC removal efficiency		%	81.9%	61.01%	74.1%	59.4%	44.1%	0.0%	100.0%
Total Iron removal efficiency		%	#DIV/0!	#DIV/0!	0.0%	100.0%	100.0%	0.0%	#DIV/0!
Total Manganese removal efficiency		%	9.2%	1.70%	-1.3%	0.5%	0.2%	0.0%	-0.5%
Cartridge Filters		ea	1	NA	NA	NA	NA	NA	NA
Sodium hypochlorite (12%)		lb	634	NA	NA	NA	NA	NA	NA
Polymer		lb	25	NA	NA	NA	NA	NA	NA
Hydrogen peroxide (50%)		lb	3705	NA	NA	NA	NA	NA	NA
Caustic (50%)		lb	2074	NA	NA	NA	NA	NA	NA
Hydrochloric Acid		lb	65	NA	NA	NA	NA	NA	NA
Spare Parts or other		at cost	443	NA	NA	NA	NA	NA	NA
Sludge generated (20% dewatered)		gal	17	0	0	0	0	0	0
Sludge disposed of		gal	12	0	0	0	0	0	0
Electricity (estimated)		kw hr	39891	37800	NA	NA	NA	NA	NA
Gas (estimated)		therms	854	800	NA	NA	NA	NA	NA
Compliance Sampling		at cost	893	650	NA	NA	NA	NA	NA
Operator		Month	8927	6700	NA	NA	NA	NA	NA
Redevelopment		at cost	2048	0	NA	NA	NA	NA	NA
Management & Engineering		at cost	2874	3200	NA	NA	NA	NA	NA
Consumables cost		\$	\$3,160	NA	NA	NA	NA	NA	NA
Sludge disposal cost		\$	\$50	NA	NA	NA	NA	NA	NA
Utilities cost		\$	\$3,889	NA	NA	NA	NA	NA	NA
Services cost		\$	\$14,742	NA	NA	NA	NA	NA	NA
Operating Cost (Estimated)		\$	\$21,841	\$0	NA	NA	NA	NA	NA

Notes:
NA = Not Available

Servall Laundry
Site No. 1-52-077
Groundwater Remediation -2001 Operation and Maintenance

Summary Report

Plant Operating Data		July-01	August-01	September-01	October-01	November-01	December-01	Total Year 2001
	unit							
Flow Rate	gpm	117.3	113.73	106.89	111.31	100.59		-
Gallons processed	gallons	3,476,630	4,224,010	3,559,300	3,457,470	2,969,940		31,503,900
Percent of Time Operating	%	54%	63%	53%	53%	44%		125%
Pounds of VOCs Treated	lb	0.06	0.30	0.49	0.79	0.45		3.10
Influent VOC concentration	ug/L	6.75	16.72	19.58	29.64	24.6		153.14
Effluent VOC concentration	ug/L	4.61	8.24	3.11	2.25	6.5		45.36
Influent Total Iron	ug/L	189	308	317	332	0		1,596
Effluent Total Iron	ug/L	0	0	0	0	0		0
Influent Total Manganese	ug/L	780	609	595	669	674		6,634
Effluent Total Manganese	ug/L	695	603	590	658	649		6,510
VOC removal efficiency	%	31.7%	50.7%	84.1%	92.4%	73.6%		61.0%
Total Iron removal efficiency	%	100.0%	100.0%	100.0%	100.0%	#DIV/0!		#DIV/0!
Total Manganese removal efficiency	%	10.9%	1.0%	0.8%	1.6%	3.7%		1.7%
Cartridge Filters	ea	NA	NA	NA	NA	NA		0
Sodium hypochlorite (12%)	lb	NA	NA	NA	NA	NA		0
Polymer	lb	NA	NA	NA	NA	NA		0
Hydrogen peroxide (50%)	lb	NA	NA	NA	NA	NA		0
Caustic (50%)	lb	NA	NA	NA	NA	NA		0
Hydrochloric Acid	lb	NA	NA	NA	NA	NA		0
Spare Parts or other	at cost	NA	NA	NA	NA	NA		\$0
Sludge generated (20% dewatered)	gal	0	0	0	0	0		0
Sludge disposed of	gal	0	0	0	0	0		0
Electricity (estimated)	kw hr	NA	NA	NA	NA	NA		0
Gas (estimated)	therms	NA	NA	NA	NA	NA		7,200
Compliance Sampling	at cost	NA	NA	NA	NA	NA		\$0
Operator	Month	NA	NA	NA	NA	NA		\$0
Redevelopment	at cost	NA	NA	NA	NA	NA		\$0
Management & Engineering	at cost	NA	NA	NA	NA	NA		\$0
Consumables cost	\$	NA	NA	NA	NA	NA		\$0
Sludge disposal cost	\$	NA	NA	NA	NA	NA		\$0
Utilities cost	\$	NA	NA	NA	NA	NA		\$0
Services cost	\$	NA	NA	NA	NA	NA		\$0
Operating Cost (Estimated)	\$	NA	NA	NA	NA	NA		\$0

Notes:

NA = Not Available

Servall Laundry Site
Site No. 1-52-077
Groundwater Remediation - Operation and Maintenance

2001 Compliance Sampling - UNCORRECTED

Influent		2001 DATA							
Constituents	Discharge Criteria	units	February	March	April	May	June		
Chlorobenzene	5	ug/L		U	U	U	NA		U
Vinyl Chloride	2	ug/L		U	U	U	NA		U
1,1-Dichloroethene	5	ug/L		U	U	U	NA		U
Trichloroethene	5	ug/L	0.8	0.76	0.75	NA	0.83		
Tetrachloroethene	5	ug/L	5.1	11	15	NA	5.7		
1,1-Dichloroethane	5	ug/L		U	U	U	NA		U
Toluene	5	ug/L		U	U	U	NA		U
cis-1,2-Dichloroethene	5	ug/L		U	U	0.4	J	NA	U
trans-1,2-Dichloroethene	5	ug/L		U	U	U	NA		U
Methylene Chloride	N/A	ug/L	0.22	JB	0.43	JB	0.71	JB	0.26 JB
1,1,1-Trichloroethane	N/A	ug/L	0.38	J	U	0.26	J	NA	U
Chloroform	N/A	ug/L		U	U	U	NA		0.16 J
Bromodichloromethane	N/A	ug/L		U	U	U	NA		U
Trichlorofluoromethane	N/A	ug/L		U	U	U	NA		U
Tetrahydrofuran	N/A	ug/L		U	U	U	NA		U
Methyl tert-Butyl Ether	N/A	ug/L	1.6	JB	2.6	J	5	J	NA 4 J
Acetone	N/A	ug/L		U	U	U	NA		U
Naphthalene	N/A	ug/L				0.31	J	NA	U
Total VOCs	N/A	ug/L	8.10	14.79	22.43	0.00	10.95		
pH			6.2	5.8	5.85	NA	6.54		
Iron (total)	600 ⁴	ug/L		U	210	240	NA		U
Manganese (total)	600 ⁴	ug/L	756	874	815	NA	862		
Alkalinity	N/A	mg/L	20	23.5	24	NA	21		
Total Suspended Solids	N/A	mg/L		U	U	U	NA		U
Total Solids	N/A	mg/L	114	117	3360	NA	141		
Effluent		2001 DATA							
Constituents	Discharge Criteria	units	February	March	April	May	June		
Chlorobenzene	5	ug/L		U	U	U	NA		U
Vinyl Chloride	2	ug/L		U	U	U	NA		U
1,1-Dichloroethene	5	ug/L		U	U	U	NA		U
Trichloroethene	5	ug/L		U	U	U	NA		U
Tetrachloroethene	5	ug/L	0.9	0.29	J	0.2	J	NA	U
1,1-Dichloroethane	5	ug/L		U	U	U	NA		U
Styrene	5 (POC)	ug/L		U	U	U	NA		U
Toluene	5	ug/L		U	U	U	NA		U
cis-1,2-Dichloroethene	5	ug/L		U	U	U	NA		U
trans-1,2-Dichloroethene	5	ug/L		U	U	U	NA		U
Methylene Chloride	N/A	ug/L	0.36	JB	0.42	JB	0.75	JB	0.35 JB
1,1,1-Trichloroethane	N/A	ug/L		U	U	U	NA		U
Chloroform	N/A	ug/L	0.16	J	0.3	J	1.7	NA	0.67 U
Tetrahydrofuran	50	ug/L		U	U	U	NA		U
Acetone	N/A	ug/L		U	5	9.4	B	NA	3.6 B
2-Butanone	N/A	ug/L		U	U	U	NA		U
Chloromethane	N/A	ug/L		U	U	U	NA		U
Bromomethane	N/A	ug/L		U	U	U	NA		U
Iodomethane	N/A	ug/L		U	U	U	NA		U
Bromodichloromethane	N/A	ug/L		U	U	0.3	J	NA	U
Methyl tert-Butyl Ether	N/A	ug/L	0.68	JB	U	0.3	J	NA	U
Total VOCs	N/A	ug/L	2.10	6.01	12.54	0.00	4.62		
pH			6.58	6.45	6.97	NA	7.56		
Iron (total)	600 ⁴	ug/L		U	U	U	NA		U
Manganese (total)	600 ⁴	ug/L	766	870	813	NA	866		
Alkalinity	N/A	mg/L	22	36	67	NA	70		
Total Suspended Solids	N/A	mg/L		U	U	U	NA		U
Total Solids	N/A	mg/L	92	134	159	NA	189		

Notes:

- Analytical data analyzed by STL Laboratories.
- (U) Undetected.
- (J) Estimate value. Result is below sample practical quantitation limit, but above the instrument detection limit.
- The combined effluent concentration of Iron and Manganese will not exceed 1,000 ug/L.
- N/A - No limit established for this site.
- (E) Estimate value.
- NA - Not Analyzed
- "-" indicates not performed.
- Bold values exceed discharge limits.
- (P) pesticide/aroclor target analyte. Greater than 25% difference between the two GC columns.
- Concentration between EPA contract detection limit and instrument detection limit
- POC = principal organic contaminant
- LE = lab error or contamination likely

Servall Laundry Site
Site No. 1-52-077
Groundwater Remediation - Operation and Maintenance

2001 Compliance Sampling - UNCORRECTED

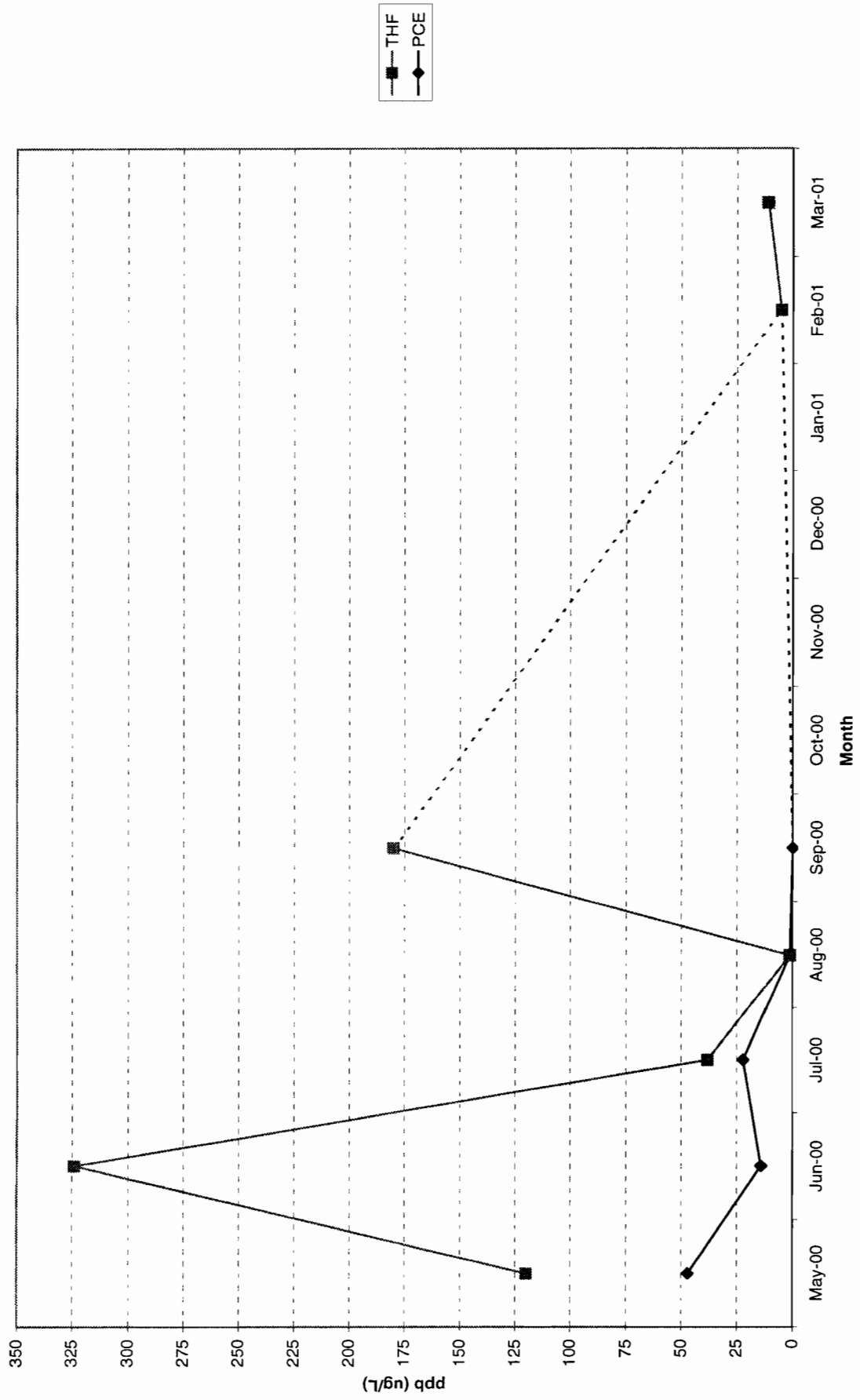
Influent		2001 DATA									
Constituents	Discharge Criteria	units	July	August	September	October	November	December			
Chlorobenzene	5	ug/L	U	U	U	U	U	U			
Vinyl Chloride	2	ug/L	U	U	U	U	U	U			
1,1-Dichloroethene	5	ug/L	U	U	U	U	U	U			
Trichloroethene	5	ug/L	0.8	0.7	0.7	0.93	0.9				
Tetrachloroethene	5	ug/L	2.5	11	13	23	19				
1,1-Dichloroethane	5	ug/L	U	U	U	U	U	U			
Toluene	5	ug/L	U	U	U	U	U	U			
cis-1,2-Dichloroethene	5	ug/L	U	0.23	J	0.54	0.76	0.7			
trans-1,2-Dichloroethene	5	ug/L	U	U	U	U	U	U			
Methylene Chloride	N/A	ug/L	0.41	JB	U	0.11	U	U			
1,1,1-Trichloroethane	N/A	ug/L	0.41	J	0.37	J	0.31	0.25	U		
Chloroform	N/A	ug/L	0.14	J	0.22	J	0.13	U	U		
Bromodichloromethane	N/A	ug/L	U	U	U	U	U	U			
Trichlorofluoromethane	N/A	ug/L	U	U	U	U	U	U			
Tetrahydrofuran	N/A	ug/L	U	U	U	U	U	U			
Methyl tert-Butyl Ether	N/A	ug/L	2.9	J	4.2	J	4.9	4.7	4	J	
Acetone	N/A	ug/L	U	U	U	U	9	U	U		
Naphthalene	N/A	ug/L	U	U	U	U	U	U	U		
Total VOCs	N/A	ug/L	7.16	16.72	19.69	38.64	24.60	0.00			
pH			6.2	6.18	5.95	6.15	6.1				
Iron (total)	600 ⁴	ug/L	189	308	317	332		U			
Manganese (total)	600 ⁴	ug/L	780	609	595	669	674				
Alkalinity	N/A	mg/L	23	25	26	29	28				
Total Suspended Solids	N/A	mg/L	U	U	U	U	U	U			
Total Solids	N/A	mg/L	134	173	181	178	160				

Effluent		2001 DATA									
Constituents	Discharge Criteria	units	July	August	September	October	November	December			
Chlorobenzene	5	ug/L	U	U	U	U	U	U			
Vinyl Chloride	2	ug/L	U	U	U	U	U	U			
1,1-Dichloroethene	5	ug/L	U	U	U	U	U	U			
Trichloroethene	5	ug/L	0.12	J	U	U	U	U			
Tetrachloroethene	5	ug/L	0.27	J	0.18	J	0.36	U	3		
1,1-Dichloroethane	5	ug/L	U	U	U	U	0.06	U	U		
Styrene	5 (POC)	ug/L	U	U	U	U	U	U	U		
Toluene	5	ug/L	U	U	U	U	U	U	U		
cis-1,2-Dichloroethene	5	ug/L	U	U	U	U	U	U	U		
trans-1,2-Dichloroethene	5	ug/L	U	U	U	U	U	U	U		
Methylene Chloride	N/A	ug/L	0.68	JB	U	U	0.06	U	U		
1,1,1-Trichloroethane	N/A	ug/L	U	U	U	U	0.15	U	U		
Chloroform	N/A	ug/L	1.8	2.7	1.5	0.33	0.8				
Tetrahydrofuran	50	ug/L	U	U	U	U	U	U	U		
Acetone	N/A	ug/L	U	4.1	5.9	3.2	U	U	U		
2-Butanone	N/A	ug/L	U	U	U	0.6	U	U	U		
Chloromethane	N/A	ug/L	U	U	U	0.46	U	U	U		
Bromomethane	N/A	ug/L	U	U	U	0.81	U	U	U		
Iodomethane	N/A	ug/L	U	U	U	0.42	U	U	U		
Bromodichloromethane	N/A	ug/L	0.62	1.1	0.97	U	0.7				
Methyl tert-Butyl Ether	N/A	ug/L	1.8	J	0.16	J	0.28	0.48	2	J	
Total VOCs	N/A	ug/L	5.29	8.24	9.01	6.57	6.50	0.00			
pH			7.13	6.33	7.25	7.34	7.2				
Iron (total)	600 ⁴	ug/L	U	U	U	U	U	U	U		
Manganese (total)	600 ⁴	ug/L	695	603	590	658	649				
Alkalinity	N/A	mg/L	62	24	62	48	44				
Total Suspended Solids	N/A	mg/L	U	U	U	U	U	U	U		
Total Solids	N/A	mg/L	184	174	226	167	190				

Notes

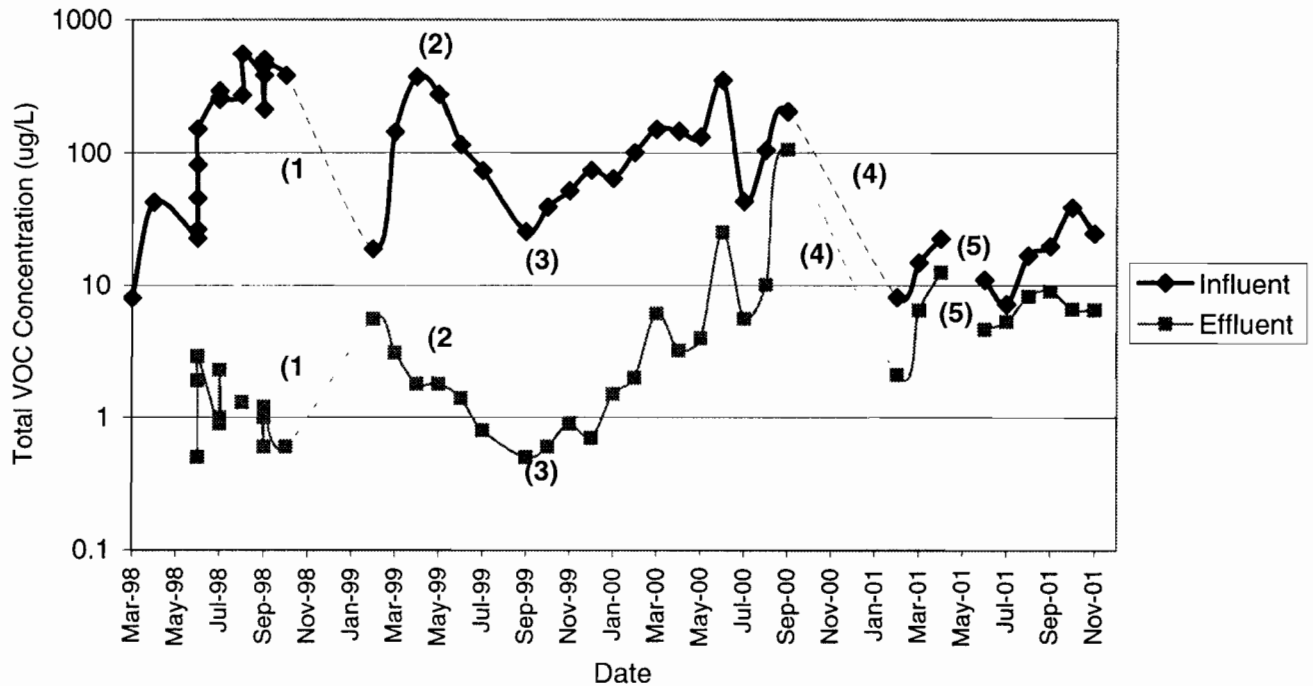
- Analytical data analyzed by STL Laboratories.
- (U) Undetected
- (J) Estimate value. Result is below sample practical qua instrument detection limit.
- The combined effluent concentration of Iron and Mangan
- N/A - No limit established for this site
- (E) Estimate value.
- NA - Not Analyzed
- "-" indicates not performed.
- Bold values exceed discharge limits.
- (P) pesticide/aroclor target analyte. Greater than 25% d
- Concentration between EPA contract detection limit an
- POC = principal organic contaminant
- LE - lab error or contamination likely

Tetrahydrofuran (THF) & Tetrachloroethene (PCE)



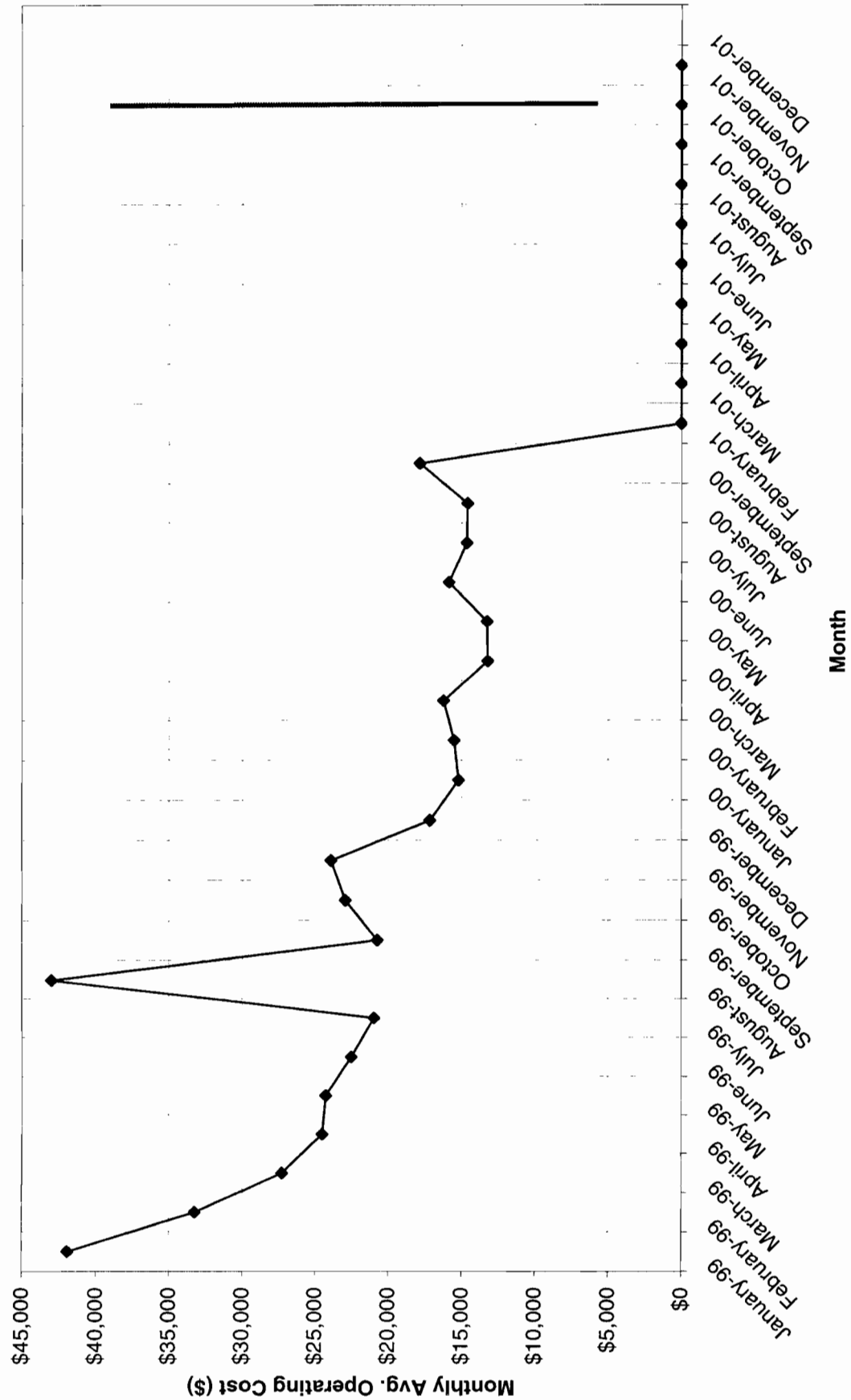
Servall Laundry Site
Site No. 1-52-077
Groundwater Remediation - Operation and Maintenance

Total Volatile Organic Compound (VOC) Influent and Effluent Trends



NOTES

1. Plant down due to reinjection well fouling (November 19, 1998 to January 23, 1999)
2. Brief Shut down in May: May 8 - May 10, 1999
3. Low influent flow due to reinjection well fouling.



Servall Laundry Site
Site No. 1-52-077
Groundwater Remediation

Summary Notes and Action Items

Month	Notes	Action	Resolutions
February	NYSDEC project manager requested repair of broken windows at the site.	Earth Tech requested that the O&M subcontractor (H2M) arrange for repairs	H2M had windows repaired.
	H2M Reported failure of three pH probes and one transmitter unit. They provided cost of replacement from original supplier	Earth Tech confirmed cost of replacement and received authorization to purchase replacements from NYSDEC	pH Probes and transmitter was replaced
	H2M has suggested that the UV lamp system may be ready for replacement lamps.	Earth Tech and H2M will track total VOC removal efficiency to verify the need to replace the UV lamps	
March	Nothing to Report		
April	See Discussion in Report		
May	See Discussion in Report		
June	Nothing to Report		
July	Nothing to Report		
August	Nothing to Report		
September	Original monthly compliance samples taken on 9/13/01 were not received at lab in timely manner (5 days after sampling)	Plant was Resampled on 9/27/01	
October	Nothing to Report		
November	Remediation system shut down.		
December	Remediation system cleaned and closed.		

Servall Laundry Site
Site No. 1-52-077
Summary of Off-Site Analytical Results

	Design Concentration (ug/l)	Average of Sampling Results (ug/l)	Date		Mar-98		Apr-98		Jun-98		Jun-98		Jun-98		Jun-98		Jul-98	
			Time		8am		8am		9am		1pm		2:50pm		6:50am		6:30am	
INFLUENT																		
TOTAL VOCs	14,104	154			8	42.5	22.6	26.4	45.5	81.4	151.3	291.7	261.4					
Iron (mg/L)	0.5 - 5	36			0.19	0.98	0.67	1.1	1.1	1.2	1.7	1.8	1.5					
Manganese (mg/L)	0.675	133			0.73	1	0.97	1.1	1.1	1.1	1.1	1.2	1					
EFFLUENT																		
TOTAL VOCs		6			0	0	0	0	0.5	1.9	2.9	0.9	2.3					
Removal Efficiencies		96.36%			100%	100%	100%	100%	99%	98%	98%	100%	99%					
Iron (mg/L)		0.27			0.1	0.45	0.08	0.06	0.05	0.04	0.06	0.14	0.14					
Manganese (mg/L)		130.8			0.66	0.87	0.91	1.7	1	1.1	1	1.2	1.1					

* Numbers vary from published values in the Final Prove-out Report by Consumers Applied Technologies and Enviroclean Northeast, Inc., not dated. Published values, 2.2 and 23, were changed to **2.2** and **2.3**, respectively, as determined by the trends in VOC concentrations sampled.

Servall Laundry Site
Site No. 1-52-077
Summary of Off-Site Analytical Results

		Date	Jul-98	Aug-98	Sep-98	Sep-98	Sep-98	Sep-98	Sep-98	Sep-98	Oct-98
		Time	9:30am	4:30pm	4pm	8am				1pm	9am
	Design Concentration (ug/l)	Average of Sampling Results (ug/l)									
INFLUENT											
TOTAL VOCs	14,104	154	252	272.2	552.5	382.8	503.2	473.1	213	453.6	383.3
Iron (mg/L)	0.5 - 5	36		1.5	1.7	1.4	1.2	1.4	1.2	1.1	0.9
Manganese (mg/L)	0.675	133		0.96	0.82	0.85	0.8	0.74	0.69	0.73	0.67
EFFLUENT											
TOTAL VOCs		6	1	0	1.3	0	1.1	1	0.6	1.2	0.6
Removal Efficiencies		96.36%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Iron (mg/L)		0.27		0.17	2.4	0.19	0.05	0.11	0.05	0.15	0.06
Manganese (mg/L)		130.8		0.97	0.79	0.84	0.79	0.74	0.72	0.72	0.66

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Servall Laundry Site
Site No. 1-52-077
Summary of Off-Site Analytical Results

		Date Time	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Sep-99	Oct-99	Nov-99
INFLUENT	Design Concentration (ug/l)	Average of Sampling Results (ug/l)									
TOTAL VOCs	14,104	154	18.8	143.6	373.7	275.3	114.8	73.5	25.5	39.1	51.6
Iron (mg/L)	0.5 - 5	36	0.574	0.42	0.564	0.385	0.236	0.321	0.172	0.979	0.716
Manganese (mg/L)	0.675	133	0.629	0.565	0.496	0.517	0.492	0.719	0.63	0.622	0.521
EFFLUENT											
TOTAL VOCs		6	5.57	3.1	1.8	1.8	1.4	0.8	0.5	0.6	0.9
Removal Efficiencies		96.36%	70%	98%	100%	99%	99%	99%	98%	98%	98%
Iron (mg/L)		0.27	0.134	0.0604	0.05	0.05	0.199	0.1	0.13	0.035	0.035
Manganese (mg/L)		130.8	0.612	0.569	0.49	0.542	0.507	0.71	0.66	0.613	0.519

* Numbers vary from published values in the Final Prove-out Report by Consumers Applied Technologies and Enviroclean Northeast, Inc., not dated. Published values, 2.2 and 2.3, were changed to 2.2 and 2.3, respectively, as determined by the trends in VOC concentrations sampled.

Servall Laundry Site
Site No. 1-52-077
Summary of Off-Site Analytical Results

		Date Time	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00
	Design Concentration (ug/l)	Average of Sampling Results (ug/l)									
INFLUENT											
TOTAL VOCs	14,104	154	73.9	63.9	100.3	150.6	145.45	131.82	350.93	42.89	104.46
Iron (mg/L)	0.5 - 5	36	0.248	1.27	0.308	0.689	0.426	1.43	6.32	0.444	0.583
Manganese (mg/L)	0.675	133	0.548	0.593	0.542	0.517	0.499	0.864	2.9	0.992	0.514
EFFLUENT											
TOTAL VOCs		6	0.7	1.5	2	6.1	3.22	3.97	25.16	5.57	10.05
Removal Efficiencies		96.36%	99%	98%	98%	96%	98%	97%	93%	87%	90%
Iron (mg/L)		0.27	0.035	0.1	0.032	0.032	0.0755	3.01	1.78	0.732	1.4
Manganese (mg/L)		130.8	0.524	0.583	0.533	0.492	0.506	0.417	0.0166	0.841	0.399

* Numbers vary from published values in the Final Prove-out Report by Consumers Applied Technologies and Enviroclean Northeast, Inc., not dated. Published values, 2.2 and 23, were changed to 22 and 2.3, respectively, as determined by the trends in VOC concentrations sampled.

Servall Laundry Site
Site No. 1-52-077
Summary of Off-Site Analytical Results

		Date Time	Sep-00	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01
		Average of Sampling Results (ug/l)									
INFLUENT	Design Concentration (ug/l)										
TOTAL VOCs	14,104	154	204.19	8.1	14.79	22.43	NA	10.95	7.16	16.72	19.69
Iron (mg/L)	0.5 - 5	36	25.7	0	210	240	0	0	189	308	317
Manganese (mg/L)	0.675	133	0.682	756	874	815	0	862	780	609	595
EFFLUENT											
TOTAL VOCs		6	105.99	2.1	6.45	12.54	NA	4.62	5.29	8.24	9.01
Removal Efficiencies		96.36%	48%	74%	56%	44%	0%	58%	26%	51%	54%
Iron (mg/L)		0.27	0.0845	0	0	0	0	0	0	0	0
Manganese (mg/L)		130.8	0.439	766	870	813	0	866	695	603	590

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Servall Laundry Site
Site No. 1-52-077
Summary of Off-Site Analytical Results

		Date Time	Oct-01	Nov-01	Dec-01
	Design Concentration (ug/l)	Average of Sampling Results (ug/l)			
INFLUENT					
TOTAL VOCs	14,104	154	38.64	24.6	
Iron (mg/L)	0.5 - 5	36	332	0	
Manganese (mg/L)	0.675	145	669	674	
EFFLUENT					
TOTAL VOCs		6	6.57	6.5	
Removal Efficiencies		96.36%	83%	74%	
Iron (mg/L)		0.27	0	0	
Manganese (mg/L)		142.1	658	649	

* Numbers vary from published values in the Final Prove-out Report by Consumers Applied Technologies and Enviroclean Northeast, Inc., not dated. Published values, 2.2 and 23, were changed to **22** and **2.3**, respectively, as determined by the trends in VOC concentrations sampled.

LABORATORY TEST RESULTS											
Job Number: 200122						Date: 12/18/2001					
CUSTOMER: EARTH TECHNOLOGY						PROJECT: SERVALL MONTHLY					
ATTN: Brett Mongillo											
Laboratory Sample ID: 200122-1											
Date Sampled.....: 11/28/2001											
Time Sampled.....: 14:30											
Sample Matrix.....: Water											
Date Received.....: 11/29/2001											
Time Received.....: 10:30											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
160.1	Solids, Total Dissolved (TDS)	160		5.9	10	1	mg/L	1299		11/30/01 0000	jcs
160.2	Solids, Total Dissolved (TDS)	ND	U	1.9	5.0	1	mg/L	1293		11/30/01 0000	ams
310.1	Solids, Total Suspended (TSS)										
310.1	Solids, Total Suspended (TSS)	28.0		1.10	2.00	1	mg/L	1435		12/10/01 0000	jbk
150.1	Alkalinity										
150.1	Alkalinity, Total as CaCO3	6.1		Missing MDL	0.10	1	pH Units	1308		12/04/01 0000	ams
200.7	pH (Water)										
200.7	pH										
200.7	Metals Analysis (ICAP Trace)										
200.7	Iron	ND	U	63.5	200	1	ug/L	1387		12/06/01 1338	ckc
200.7	Molybdenum	ND	U	3.4	20.0	1	ug/L	1387		12/06/01 1338	ckc
524.2	Volatile Organics										
524.2	Dichlorodifluoromethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Chloromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Vinyl chloride	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Bromomethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Chloroethane	ND	U	0.4	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Trichlorofluoromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	1,1-Dichloroethene	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Acetone	3	J	1	12	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Carbon disulfide	ND	U	0.3	25	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Methylene chloride	1	B	0.3	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	trans-1,2-Dichloroethene	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1529	pam
524.2	Methyl-tert-butyl-ether (MTBE)	4	J	0.1	25	1.00000	ug/L	1364		11/30/01 1529	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 200122				Date:12/18/2001							
CUSTOMER: EARTH TECHNOLOGY											
PROJECT: SERVALL MONTHLY											
ATTN: Brett Mongillo											
Customer Sample ID: INFLUENT Laboratory Sample ID: 200122-1 Date Sampled.....: 11/28/2001 Date Received.....: 11/29/2001 Time Sampled.....: 14:30 Time Received.....: 10:30 Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
00000001	1,1-Dichloroethane	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	2,2-Dichloropropane	ND	U	0.3	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	cis-1,2-Dichloroethene	0.7		0.02	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	2-Butanone (MEK)	ND	U	0.3	6	1.00000	ug/L	1364		11/30/01 1529	pan
	Bromochloromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Tetrahydrofuran	ND	U	0.9	25	1.00000	ug/L	1364		11/30/01 1529	pan
	Chloroform	ND	U	0.03	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,1,1-Trichloroethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,1-Dichloropropene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Carbon tetrachloride	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Benzene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2-Dichloroethane	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Trichloroethene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2-Dichloropropane	0.9		0.05	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Dibromomethane	ND	U	0.4	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Bromodichloromethane	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	cis-1,3-Dichloropropene	ND	U	0.03	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	4-Methyl-2-pentanone (MIBK)	ND	U	0.1	5	1.00000	ug/L	1364		11/30/01 1529	pan
	Toluene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	trans-1,3-Dichloropropene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,1,2-Trichloroethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Tetrachloroethene	ND	U	0.1	0.5	1.00000	ug/L	1364	*	11/30/01 1529	pan
	1,3-Dichloropropane	19		0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	2-Hexanone	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Dibromochloromethane	ND	U	0.1	5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2-Dibromoethane (EDB)	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Chlorobenzene	ND	U	0.03	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,1,1,2-Tetrachloroethane	ND	U	0.02	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Ethylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 200122					Date: 12/18/2001						
CUSTOMER: EARTH TECHNOLOGY											
PROJECT: SERVALL MONTHLY											
ATTN: Brett Mongillo											
Laboratory Sample ID: 200122-1											
Customer Sample ID: INFLUENT											
Date Sampled.....: 11/28/2001											
Date Received.....: 11/29/2001											
Time Sampled.....: 14:30											
Time Received.....: 10:30											
Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	m&p-Xylenes	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	o-Xylene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Styrene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Bromoform	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Isopropylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,1,2,2-Tetrachloroethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Bromobenzene	ND	U	0.03	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2,3-Trichloropropane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	n-Propylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	2-Chlorotoluene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,3,5-Trimethylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	4-Chlorotoluene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	tert-Butylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2,4-Trimethylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	sec-Butylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,3-Dichlorobenzene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	p-Isopropyltoluene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,4-Dichlorobenzene	ND	U	0.02	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	n-Butylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2-Dichlorobenzene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2-Dibromo-3-chloropropane	ND	U	0.2	2	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2,4-Trichlorobenzene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Hexachlorobutadiene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	Naphthalene	ND	U	0.4	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
	1,2,3-Trichlorobenzene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1529	pan
Methyl Acrylate	ND	U	0.1	25	1.00000	ug/L	1364		11/30/01 1529	pan	
Methylacrylonitrile	ND	U	0.3	25	1.00000	ug/L	1364		11/30/01 1529	pan	
1-Chlorobutane	ND	U	0.1	25	1.00000	ug/L	1364		11/30/01 1529	pan	
Chloroacetonitrile	ND	U	18	25	1.00000	ug/L	1364		11/30/01 1529	pan	

* In Description = Dry Wgt.

LABORATORY TEST RESULTS																							
Job Number: 200122						Date:12/18/2001																	
CUSTOMER: EARTH TECHNOLOGY						PROJECT: SERVALL MONTHLY																	
Customer Sample ID: INFLUENT Date Sampled.....: 11/28/2001 Time Sampled.....: 14:30 Sample Matrix.....: Water						Laboratory Sample ID: 200122-1 Date Received.....: 11/29/2001 Time Received.....: 10:30																	
TEST METHOD						PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH						
00000001						2-Nitropropane	ND	U		0.6	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						1,1-Dichloro-2-propanone	ND	U		1	5	1.00000	ug/L	1364			11/30/01 1529	pam					
						Hexachloroethane	0	J		Missing MDL	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Nitrobenzene	ND	U		2	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Ethyl ether	ND	U		0.2	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Iodomethane	ND	U		0.1	0.5	1.00000	ug/L	1364			11/30/01 1529	pam					
						3-Chloropropene (Allyl Chloride)	ND	U		0.3	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Propionitrile	ND	U		1	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Acrylonitrile	ND	U	*	0.4	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Methylmethacrylate	ND	U		0.2	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Ethylmethacrylate	ND	U		0.1	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						trans-1,4-Dichloro-2-butene	ND	U		0.1	25	1.00000	ug/L	1364			11/30/01 1529	pam					
						Pentachloroethane	0	J		Missing MDL	0.5	1.00000	ug/L	1364			11/30/01 1529	pam					

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Date: 12/18/2001											
Job Number: 200122											
CUSTOMER: EARTH TECHNOLOGY											
PROJECT: SERVALL MONTHLY											
ATTN: Brett Mongillo											
Laboratory Sample ID: 200122-2											
Date Sampled.....: 11/28/2001											
Time Sampled.....: 14:40											
Sample Matrix.....: Water											
Laboratory Sample ID: 200122-2											
Date Received.....: 11/29/2001											
Time Received.....: 10:30											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
160.1	Solids, Total Dissolved (TDS)	190		5.9	10	1	mg/L	1299		11/30/01 0000	jcs
160.2	Solids, Total Dissolved (TDS)	ND		1.9	5.0	1	mg/L	1293		11/30/01 0000	ams
310.1	Solids, Total Suspended (TSS)		*								
310.1	Solids, Total Suspended (TSS)	44.0		1.10	2.00	1	mg/L	1435		12/10/01 0000	jbk
150.1	Alkalinity										
150.1	Alkalinity, Total as CaCO3										
150.1	pH (Water)										
150.1	pH	7.2		Missing MDL	0.10	1	pH Units	1308		12/04/01 0000	ams
200.7	Metals Analysis (ICAP Trace)										
200.7	Iron	ND	*	63.5	200	1	ug/L	1387		12/06/01 1344	ckc
200.7	Molybdenum	ND	U	3.4	20.0	1	ug/L	1387		12/06/01 1344	ckc
524.2	Volatiles Organics										
524.2	Dichlorodifluoromethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Chloromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Vinyl chloride	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Bromomethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Chloroethane	ND	U	0.4	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Trichlorofluoromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	1,1-Dichloroethene	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Acetone	ND	U	1	12	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Carbon disulfide	ND	J	0.3	25	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Methylene chloride	ND	J	0.3	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	trans-1,2-Dichloroethene	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
524.2	Methyl-tert-butyl-ether (MTBE)	2	J	0.1	25	1.00000	ug/L	1364		11/30/01 1604	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS												
Job Number: 200122			Date: 12/18/2001									
CUSTOMER: EARTH TECHNOLOGY												
PROJECT: SERVALL MONTHLY												
ATTN: Brett Mongillo												
Customer Sample ID: EFFLUENT Laboratory Sample ID: 200122-2 Date Sampled.....: 11/28/2001 Date Received.....: 11/29/2001 Time Sampled.....: 14:40 Time Received.....: 10:30 Sample Matrix.....: Water												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
00000000	1,1-Dichloroethane	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	2,2-Dichloropropane	ND	U		0.3	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	cis-1,2-Dichloroethene	ND	U		0.02	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	2-Butanone (MEK)	ND	U	B	0.3	6	1.00000	ug/L	1364		11/30/01 1604	pam
	Bromochloromethane	ND	U		0.2	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Tetrahydrofuran	ND	U		0.9	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Chloroform	0.8	U		0.03	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,1,1-Trichloroethane	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,1-Dichloropropene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Carbon tetrachloride	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Benzene	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,2-Dichloroethane	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Trichloroethene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,2-Dichloropropane	ND	U		0.05	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Dibromomethane	ND	U		0.4	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Bromodichloromethane	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	cis-1,3-Dichloropropene	0.7	U		0.03	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	4-Methyl-2-pentanone (MIBK)	ND	U		0.1	5	1.00000	ug/L	1364		11/30/01 1604	pam
	Toluene	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	trans-1,3-Dichloropropene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,1,2-Trichloroethane	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Tetrachloroethene	3	U	*	0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,3-Dichloropropane	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	2-Hexanone	ND	U		0.1	5	1.00000	ug/L	1364		11/30/01 1604	pam
	Dibromochloromethane	0.2	U	a	0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,2-Dibromoethane (EDB)	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Chlorobenzene	ND	U		0.03	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,1,1,2-Tetrachloroethane	ND	U		0.02	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Ethylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS													
Job Number: 200122			Date:12/18/2001										
CUSTOMER: EARTH TECHNOLOGY													
PROJECT: SERVALL MONTHLY													
ATTN: Brett Mongillo													
Customer Sample ID: EFFLUENT													
Date Sampled.....: 11/28/2001													
Time Sampled.....: 14:40													
Sample Matrix.....: Water													
Laboratory Sample ID: 200122-2													
Date Received.....: 11/29/2001													
Time Received.....: 10:30													
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH	
	m&p-Xylenes	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	o-Xylene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	Styrene	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	Bromoform	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	Isopropylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,1,2,2-Tetrachloroethane	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	Bromobenzene	ND	U		0.03	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,2,3-Trichloropropane	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	n-Propylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	2-Chlorotoluene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,3,5-Trimethylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	4-Chlorotoluene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	tert-Butylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,2,4-Trimethylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	sec-Butylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,3-Dichlorobenzene	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	p-Isopropyltoluene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,4-Dichlorobenzene	ND	U		0.02	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	n-Butylbenzene	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,2-Dichlorobenzene	ND	U		0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam	
	1,2-Dibromo-3-chloropropane	ND	U		*	0.2	2	1.00000	ug/L	1364		11/30/01 1604	pam
	1,2,4-Trichlorobenzene	ND	U			0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Hexachlorobutadiene	ND	U			0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	Naphthalene	ND	U			0.4	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	1,2,3-Trichlorobenzene	ND	U			0.04	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
Methyl Acrylate	ND	U			0.1	25	1.00000	ug/L	1364		11/30/01 1604	pam	
Methylacrylonitrile	ND	U			0.3	25	1.00000	ug/L	1364		11/30/01 1604	pam	
1-Chlorobutane	ND	U			0.1	25	1.00000	ug/L	1364		11/30/01 1604	pam	
Chloroacetonitrile	ND	U			18	25	1.00000	ug/L	1364		11/30/01 1604	pam	

* In Description = Dry Wgt.

LABORATORY TEST RESULTS												
Job Number: 200122						Date: 12/18/2001						
CUSTOMER: EARTH TECHNOLOGY						PROJECT: SERVALL MONTHLY						
ATTN: Brett Mongillo												
Customer Sample ID: EFFLUENT Date Sampled.....: 11/28/2001 Time Sampled.....: 14:40 Sample Matrix.....: Water												
Laboratory Sample ID: 200122-2 Date Received.....: 11/29/2001 Time Received.....: 10:30												
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	2-Nitropropane	ND	U		0.6	25	1.00000	ug/L	1364		11/30/01 1604	pam
	1,1-Dichloro-2-propanone	ND	U		1	5	1.00000	ug/L	1364		11/30/01 1604	pam
	Hexachloroethane	0	J		Missing MDL	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Nitrobenzene	ND	U		2	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Ethyl ether	ND	U		0.2	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Iodomethane	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1604	pam
	3-Chloropropene (Allyl Chloride)	ND	U		0.3	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Propionitrile	ND	U		1	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Acrylonitrile	ND	U	*	0.4	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Methylmethacrylate	ND	U		0.2	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Ethylmethacrylate	ND	U		0.1	25	1.00000	ug/L	1364		11/30/01 1604	pam
	trans-1,4-Dichloro-2-butene	ND	U		0.1	25	1.00000	ug/L	1364		11/30/01 1604	pam
	Pentachloroethane	0	J		Missing MDL	0.5	1.00000	ug/L	1364		11/30/01 1604	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 200122			Date:12/18/2001								
CUSTOMER: EARTH TECHNOLOGY			PROJECT: SERVALL MONTHLY								
ATTN: Brett Mongillo											
Customer Sample ID: UV-0X Laboratory Sample ID: 200122-3 Date Sampled.....: 11/28/2001 Date Received.....: 11/29/2001 Time Sampled.....: 14:35 Time Received.....: 10:30 Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
160.1	Solids, Total Dissolved (TDS)	150		5.9	10	1	mg/L	1299		11/30/01 0000	jos
160.2	Solids, Total Dissolved (TDS)	ND									
160.2	Solids, Total Suspended (TSS)		*	1.9	5.0	1	mg/L	1293		11/30/01 0000	ams
310.1	Solids, Total Suspended (TSS)										
310.1	Alkalinity	28.0		1.10	2.00	1	mg/L	1435		12/10/01 0000	jbk
150.1	Alkalinity, Total as CaCO3										
150.1	pH (Water)	6.4		Missing MDL	0.10	1	pH Units	1308		12/04/01 0000	ams
200.7	pH										
200.7	Metals Analysis (ICAP Trace)										
200.7	Iron	ND	*	63.5	200	1	ug/L	1387		12/06/01 1417	ckc
200.7	Molybdenum	ND	U	3.4	20.0	1	ug/L	1387		12/06/01 1417	ckc
524.2	Volatile Organics										
524.2	Dichlorodifluoromethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Chloromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Vinyl chloride	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Bromomethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Chloroethane	ND	U	0.4	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Trichlorofluoromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	1,1-Dichloroethene	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Acetone	5	U	1	12	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Carbon disulfide	ND	J	0.3	25	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Methylene chloride	0.8	U	0.3	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	trans-1,2-Dichloroethene	ND	B	0.3	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2	Methyl-tert-butyl-ether (MTBE)	2	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
524.2			J	0.1	25	1.00000	ug/L	1364		11/30/01 1638	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS											
Job Number: 200122					Date:12/18/2001						
CUSTOMER: EARTH TECHNOLOGY											
PROJECT: SERVALL MONTHLY											
ATTN: Brett Mongillo											
Laboratory Sample ID: 200122-3											
Date Sampled.....: 11/28/2001											
Date Received.....: 11/29/2001											
Time Sampled.....: 14:35											
Time Received.....: 10:30											
Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	1,1-Dichloroethane	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	2,2-Dichloropropane	ND	U	0.3	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	cis-1,2-Dichloroethene	ND	U	0.02	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	2-Butanone (MEK)	0.7	J B	0.3	6	1.00000	ug/L	1364		11/30/01 1638	pam
	Bromochloromethane	ND	U	0.2	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Tetrahydrofuran	ND	U	0.9	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Chloroform	ND	U	0.03	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	1,1,1-Trichloroethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	1,1-Dichloropropene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Carbon tetrachloride	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Benzene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	1,2-Dichloroethane	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Trichloroethene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	1,2-Dichloropropane	ND	U	0.05	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Dibromomethane	ND	U	0.4	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Bromodichloromethane	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	cis-1,3-Dichloropropene	ND	U	0.03	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	4-Methyl-2-pentanone (MIBK)	ND	U	0.1	5	1.00000	ug/L	1364		11/30/01 1638	pam
	Toluene	ND	U	0.04	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	trans-1,3-Dichloropropene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	1,1,2-Trichloroethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Tetrachloroethene	ND	U	0.1	0.5	1.00000	ug/L	1364	*	11/30/01 1638	pam
	1,3-Dichloropropane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	2-Hexanone	ND	U	0.1	5	1.00000	ug/L	1364		11/30/01 1638	pam
	Dibromochloromethane	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	1,2-Dibromoethane (EDB)	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Chlorobenzene	ND	U	0.03	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	1,1,1,2-Tetrachloroethane	ND	U	0.02	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	Ethylbenzene	ND	U	0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS												
Job Number: 200122						Date: 12/18/2001						
CUSTOMER: EARTH TECHNOLOGY						PROJECT: SERVALL MONTHLY						
Customer Sample ID: UV-OX Date Sampled.....: 11/28/2001 Time Sampled.....: 14:35 Sample Matrix.....: Water						Laboratory Sample ID: 200122-3 Date Received.....: 11/29/2001 Time Received.....: 10:30 ATTN: Brett Mongillo						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	2-Nitropropane	ND	U		0.6	25	1.00000	ug/L	1364		11/30/01 1638	pam
	1,1-Dichloro-2-propanone	ND	U		1	5	1.00000	ug/L	1364		11/30/01 1638	pam
	Hexachloroethane	0	J		Missing MDL	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Nitrobenzene	ND	U		2	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Ethyl ether	ND	U		0.2	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Iodomethane	ND	U		0.1	0.5	1.00000	ug/L	1364		11/30/01 1638	pam
	3-Chloropropene (Allyl Chloride)	ND	U		0.3	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Propionitrile	ND	U		1	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Acrylonitrile	ND	U	*	0.4	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Methylmethacrylate	ND	U		0.2	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Ethylmethacrylate	ND	U		0.1	25	1.00000	ug/L	1364		11/30/01 1638	pam
	trans-1,4-Dichloro-2-butene	ND	U		0.1	25	1.00000	ug/L	1364		11/30/01 1638	pam
	Pentachloroethane	0	J		Missing MDL	0.5	1.00000	ug/L	1364		11/30/01 1638	pam

* In Description = Dry Wgt.

LABORATORY TEST RESULTS																													
Job Number: 200122						Date:03/05/2002																							
CUSTOMER: EARTH TECHNOLOGY						ATTN: Brett Mongillo																							
PROJECT: SEAWALL MONTHLY																													
Customer Sample ID: INFLUENT Date Sampled.....: 11/28/2001 Time Sampled.....: 14:30 Sample Matrix.....: Water						Laboratory Sample ID: 200122-1 Date Received.....: 11/29/2001 Time Received.....: 10:30																							
TEST METHOD						PARAMETER/TEST DESCRIPTION		SAMPLE RESULT		Q		FLAGS		MDL		RL		DILUTION		UNITS		BATCH		DT		DATE/TIME		TECH	
200.7						Metals Analysis (ICAP Trace) Iron Manganese		ND 674		U		*		63.5 1.2		200 15.0		1 1		ug/L ug/L		1387 1387				12/06/01 1338 12/06/01 1338		ckc ckc	

* In Description = Dry Wgt.

Page 2

LABORATORY TEST RESULTS											
Job Number: 200122						Date:03/05/2002					
CUSTOMER: EARTH TECHNOLOGY						PROJECT: SERVALL MONTHLY					
Customer Sample ID: EFFLUENT Date Sampled.....: 11/28/2001 Time Sampled.....: 14:40 Sample Matrix.....: Water						Laboratory Sample ID: 200122-2 Date Received.....: 11/29/2001 Time Received.....: 10:30 ATTN: Brett Morgillo					
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
200.7	Metals Analysis (ICAP Trace) Iron Manganese	ND 649	U A	63.5 1.2	200 15.0	1 1	ug/L ug/L	1387 1387		12/06/01 1344 12/06/01 1344	ckc ckc

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS											
Job Number: 200122						Date:03/05/2002					
CUSTOMER: EARTH TECHNOLOGY						PROJECT: SERVALL MONTHLY					
ATTN: Brett Morgillo											
Customer Sample ID: UV-0X						Laboratory Sample ID: 200122-3					
Date Sampled.....: 11/28/2001						Date Received.....: 11/29/2001					
Time Sampled.....: 14:35						Time Received.....: 10:30					
Sample Matrix.....: Water											
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
200.7	Metals Analysis (ICAP Trace) Iron Manganese	ND 660	U *	63.5 1.2	200 15.0	1 1	ug/L ug/L	1387 1387		12/06/01 1417 ckc 12/06/01 1417 ckc	

* In Description = Dry Wgt.

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January 31, 2002

C. Brett Mongillo
Project Manager
Earth Tech, Inc.
40 British American Blvd.
Latham, New York 12110

Holzmacher, McLendon & Murrell, P.C. ▴ H2M Associates, Inc.
H2M Labs, Inc. ▴ H2M Construction Management, Inc.

575 Broad Hollow Road, Melville, New York 11747

(631) 756-8000, Fax: (631) 694-4122

e-mail: h2m@h2m.com

web: www.h2m.com

FEB - 7 2002

**Re: ServAll Laundry Site
Bayshore, New York
NYSDEC Site No. 1-52-077**

Dear Mr. Mongillo:

As you are aware, Holzmacher, McLendon, & Murrell, P.C. (H2M) has been operating the groundwater remediation system at the above referenced site. The system was shutdown on November 28, 2001 at the direction of the New York State Department of Environmental Conservation (NYSDEC). Subsequent to the shutdown date, H2M completed various site closure activities as outlined in NYSDEC's October 18, 2001 letter to your office and in accordance with our correspondence during the closure period. A summary of the closure activity is listed below.

Closure Activity Summary

The following timeline represents specific tasks completed during the closure period.

- 11/28/01 Collected final monthly monitoring samples. Shipped samples to Severn Trent Labs via Federal Express. Shutdown remediation system in anticipation of closure activities.
- 12/04/01 Began cataloging on-site equipment and condition. Determined the volume of all chemicals on site. Evaluated required activity to dewater sludge and dispose of solids.
- 12/17/01 Having determined that additional equipment and manpower would be required to operate filter press and to remove solids from settling tank, arranged for subcontractor (Eastern Environmental Solutions) to aid in this activity. Sludge handling activity began this date.
- 12/24/01 Continued filter press operation to dewater sludge from the holding tank (tank #13). Significant residual solids could not be pumped through press due to consistency and it was determined that removal directly from the sludge holding tank with a vactor truck would be more efficient.



Mr. Brett Mongillo

01/31/02

Page 2 of 3

- 12/27/01 Collected waste sludge sample for disposal characterization analysis.
- 12/28/01 Utilized subcontractor (Eastern Environmental Solutions) to remove the 1,760 gallons of 50% hydrogen peroxide and 600 gallons of 25% sodium hydroxide. Hydrogen peroxide and sodium hydroxide shipped to Clean Water of New York (bills of lading attached).
- 01/07/02 Filter press cleaned.
- 01/08/02 Pumped sludge out of the sludge holding tank utilizing vactor truck. Sludge previously collected in drums was pumped out with vactor truck and commingled for one shipment. Six cubic yards of waste sludge transported off site for disposal (see attached manifest). Utilized subcontractor to remove the 2,500 gallons of 93% sulfuric acid. Acid transported to Biro, Inc. in Medford, New York (see attached bill of lading). Utilized subcontractor to remove the 55 gallons of hydrochloric acid. Acid transported to E.B. Stimpson Co. Inc. in Bayport, New York (see attached bill of lading). Empty drums were removed from the site for proper disposal.
- 01/09/02 Began draining all water out of system including tanks, valves, sand filters, UV/ox system, etc. Began final cleaning of equipment. Rinsed and labeled chemical storage tanks including dates taken out of service. Rinsed and labeled chemical metering pumps including dates taken out of service.
- 01/10/02 Continued draining and cleaning activities.
- 01/11/02 Continued draining and cleaning activities.
- 01/25/02 Utilized plumbing contractor to close potable supply piping valve (subsurface near Drayton Avenue) and to flush water from interior potable water pipes. Placed antifreeze in traps and toilet. Removed laptop computer and mailed to Carl Hoffman at NYSDEC. Closed and locked site. Placed sign on door directing inquiries to NYSDEC.

As requested, we have compiled a list of existing equipment at the subject facility and have evaluated the condition relative to continued use at another facility. The attached equipment inventory table will also be transmitted to your office electronically as requested.



Mr. Brett Mongillo

01/31/02

Page 3 of 3

Since all activities at the site have ceased, it is recommended that the various utilities be discontinued including electric, natural gas and phone service as well as garbage removal.

If you should have any questions or require additional information, please contact Philip Schade at (631) 756-8000, extension 1623.

Very truly yours,

HOLZMACHER, McLENDON, & MURRELL, P.C.

A handwritten signature in black ink, appearing to be 'P. Schade'.

Philip J. Schade, P.E.
Project Manager

A handwritten signature in black ink, appearing to be 'R. Wenskus'.

Rocky W. Wenskus
Environmental Scientist

RWW/
enclosures

Equipment	Manufacturer	Model #	Serial #	Capacity	Operational		Condition
					Yes	No	
Diaphragm Pump 12A	Wilden	M-2	00699670		x		Air Hose not connected to top filter
Diaphragm Pump 12B	Wilden	M-2	00699770		x		
Diaphragm Pump 13	Wilden	M-4	00701853			x	Poor Condition, extensive corrosion on seams prevents a goo seal
Sulfuric Acid Chemical Metering Pump	LMI Milton Roy	A761-62S	970320441	2.00gph	x		Flushed and labeled
Peroxide Chemical Metering Pump	LMI Milton Roy	A761-277	970320881	2.00gph	x		Flushed and labeled
Caustic Chemical Metering Pump	LMI Milton Roy	A761-62S	970320438	2.00gph	x		Flushed and labeled
NaOCL Chemical Metering Pump	LMI Milton Roy	A761-62S	970320440	2.00gph	x		Flushed and labeled
Polymer Chemical Metering Pump (13)	LMI Milton Roy	C731-25HV	970320447	9.00gph	x		Flushed and labeled
Polymer Chemical Metering Pump (12A&B)	LMI Milton Roy	C771-25HV	970320445	10.0gph	x		Flushed and labeled
Polymer Chemical Metering Pump (pH Adj. Tank)	LMI Milton Roy	A171-156PB	980115817	0.42gph	x		Flushed and labeled
Spare Chemical Metering Pumps	LMI Milton Roy	A771-353B1	980717398	0.42gph		x	
Spare Chemical Metering Pumps	LMI Milton Roy	P131-392B1	990717567	0.42gph		x	
Spare Chemical Metering Pumps	LMI Milton Roy	A761-75HV	970320442	2.00gph	Unknown		Unknown
Spare Chemical Metering Pumps	LMI Milton Roy	A761-75HV	970320443	2.00gph	Unknown		Unknown
Spare Chemical Metering Pumps	LMI Milton Roy	C771-25HV	970320446	10.0gph	Unknown		Unknown
Spare Chemical Metering Pumps	LMI Milton Roy	C731-25HV	970320448	9.00gph	Unknown		Unknown
Spare Chemical Metering Pumps	LMI Milton Roy	A761-277	970320882	2.00gph	Unknown		Unknown
Air Compressor	Saylor Beal	745-80	7-40-M97		x		
Air Compressor Motor	Saylor Beal	707	7-40-M97	1725 RPM	x		
Air Dryer	Zecks Heat Sink	35HSEA100	117003-01 M297		x		
Influent & Effluent Canisters	Hurricane	HUR170-HP	3905	200gpm	x		
	Hurricane	HUR170-HP	3906	200gpm	x		
	Hurricane	HUR170-HP	3908	200gpm	x		
	Hurricane	HUR170-HP	3909	200gpm	x		
Influent & Effluent Canister Filters		HC/1-20			x		
		HC/170-5			x		
		HC/170-5			x		
		HC/170-5			x		
		HC/170-5			x		
		HC/170-5			x		
		HC/170-5			x		
		HC/170-5			x		
		HC/170-20			x		
		HC/170-20			x		
		HC/170-20			x		
		HC/170-50			x		

Equipment	Manufacturer	Model #	Serial #	Capacity		Operational		Condition
				Yes	No	Yes	No	
Process Wastewater Pumps (4A)	Goulds Pumps	3196	715E214.1	150gpm		x		
Process Wastewater Pumps (4B)	Goulds Pumps	3196	715E214.2	150gpm		x		
Process Wastewater Pumps (6A)	Goulds Pumps	3196	715E199.1	165gpm		x		
Process Wastewater Pumps (6B)	Goulds Pumps	3196	715E199.2	165gpm		x		
Unimount Motor (4A)	US Electrical Motors	A907A	Y07Y145R052 M	1740 RPM		x		
Unimount Motor (4B)	US Electrical Motors	A907A	Y07Y145R052 M	1740 RPM		x		
Unimount Motor (6A)	US Electrical Motors	A912A	Z06Z107R091M	3500 RPM		x		
Unimount Motor (6B)	US Electrical Motors	A912A	Z05Z072R146M	3500 RPM		x		
UV-Oxidation Unit (Reactor)	Calgon (RayOx Unit)	R30-3-14-4-PSCU	2-970401-01-348			x		
UV-Oxidation Unit (Control)	Calgon (RayOx Unit)	CU30-3	3-970401-01-348			x		
Agitator on pH Adjustment Tank	Neptune Mixer Co.	D-3.0	100479				x	Bolt holding agitator in place snapped and the agitator fell into the tank thus stretching out the electrical line
Agitator on Separation Tank 12A	Neptune Mixer Co.	D-1.0	100481			x		
Agitator on Separation Tank 12B	Neptune Mixer Co.	D-1.0	100480			x		
Agitator on Sludge Holding Tank 13	Neptune Mixer Co.	D-3.0	100478			x		
Equalization Tank	Edward's Fiberglass	Efl Dwg 3629	020597C	3,000 gallons		x		
pH Adjustment Tank	Edward's Fiberglass	Efl Dwg 3630	020597C	3,000 gallons		x		
Separation Tank 12A	Edward's Fiberglass	Efl Dwg 3631	020597C	1,200 gallons		x		Flushed and taken out of service 1/8/02
Separation Tank 12B	Edward's Fiberglass	Efl Dwg 3632	020597C	1,200 gallons		x		Flushed and taken out of service 1/8/02
Holding Tank 13	Edward's Fiberglass	Efl Dwg 3633	020597C	2,400 gallons		x		Flushed and taken out of service 1/8/02
Influent Flow Meter	Fisher (Body)	V150 (type)	14535765			x		
UV-Ox Flow Meter	Fisher (Agitator)	1052 (type)	14535765			x		
pH Adjustment Tank Level Meter	Fisher (Agitator)	1052 (type)	14535765			x		
Influent Flow Sensor	Sparling Instruments	FM 625	H129121897				x	
Cartridge Filter Flow Sensor	Sparling Instruments	FM 655	H129111897				x	
UV-Ox Flow Sensor	Sparling Instruments	FM 655	H129101897			x		
Effluent Flow Sensor	Sparling Instruments	FM 655	H129131897			x		

Equipment	Manufacturer	Model #	Serial #	Capacity	Operational	Condition
					Yes No	
UV-Ox Discharge Valve	Airtech	PA075DA-A	041497-0191		x	
UV-Ox Recycle Valve	Airtech	AT2.....	012097-0082		x	
Filter Press - Plate & Frame	Hoffland Environmental Inc.	A-6-1 1/4"-CGR	W057/ENP01	3 - 5 cfm	x	Decontaminated and taken out of service 1/7/02
Sulfuric Acid Tank Cover		L-97-05599				
Sulfuric Acid Tank		L-97-05598		2,800 gallons	x	Flushed and Labeled
Hydrogen Peroxide Tank Cover		L-97-05604				
Hydrogen Peroxide Tank		L-97-05603		2,800 gallons	x	Flushed and Labeled
Sodium Hydroxide Tank Cover		L-97-05586				
Sodium Hydroxide Tank		No Number		2,800 gallons	x	Flushed and Labeled
Level Chart Recorder	Bailey Fisher Porter	1392	198073-001		x	
pH Chart Recorder	Bailey Fisher Porter	1392	198073-001		x	
Flow Chart Recorder	Bailey Fisher Porter	1392	198073-001		x	Logic too intricate... can't find what was causing readout problem
pH Probes (3)	Electro Chemical Devices	PHS10-T21-CBL-EG-75-2005145.VIT			x	Stored in 4.0 buffer agent with Potassium Chloride for stabilization.
pH Probe Transmitter (Equalization Tank)	Electro Chemical Devices	T - 21	1500101.0001/7710		x	
pH Probe Transmitter (pH Adjustment Tank)	Electro Chemical Devices	T - 21	1500101.0001/5234		x	
pH Probe Transmitter (Indoor Sump)	Electro Chemical Devices	T - 21	1500101.0001/5238		x	No readout
High Level Indicator (Equalization Tank)	Magnetrol	C15-1G2A-QEB	1323228		x	
High Level Indicator (pH Adjustment Tank)	Magnetrol	B15-1E2A-BE8	1323227		x	
High Level Indicator (Separation Tank 12B)	Magnetrol	A15-1E2A-BDO	1323223		x	
High Level Indicator (Separation Tank 12A)	Magnetrol	A15-1E2A-BDO	1323224		x	
High Level Indicator (Sludge Holding Tank 13)	Magnetrol	A15-1E2A-BDO	1323225		x	
Sensing Element (Equalization Tank)	Drexelbrook	700-1-22	10105		x	
Sensing Element (pH Tank)	Drexelbrook	700-1-22	10816		x	
Polymer Injection System (pH Adjustment Tank)	Poly Blend	50-0-4	15781		x	No power to system to check if working

Equipment	Manufacturer	Model #	Serial #	Capacity	Operational		Condition
					Yes	No	
Automatic Valve (to Sludge Holding Tank 13)	Hayward Controls	EVR2-K-115A			x		Pneumatic
Automatic Valve (to pH Adjustemnt Tank)	Hayward Controls	EVR2-K-115A			x		Pneumatic
Automatic Valve (from Separation Tank 12B)	Hayward Controls	EVR2-K-115A			x		Pneumatic
Automatic Valve (from Separation Tank 12A)	Hayward Controls	EVR2-K-115A			x		Pneumatic
Groundwater Extraction Well Submersible Pump	Goulds Submersible	150L15			x		

Additional Miscellaneous Equipment On Site:

- 1 - Desk
- 1 - Mop & Bucket set
- 1 - Workbench
- 1 - 50 ml Flask
- 1 - 1000ml Graduated Cylinder
- 10 Chairs (4 Foldup, 6 w/ Wheels)
- 2 - 6 Shelf Units
- 2 - Drum Dollies
- 2 - Ladders (1 Medium height, 1 Tall)
- 2 - Tables
- 3 - Reznor Natural Gas Burners
- 5 - vials
- 8 - Fire Extinguishers
- 8 - 250 ml Beakers
- Miscellaneous Pipes & Fittings
- Printer with Paper

NON-HAZARDOUS MANIFEST

1 Generator's US EPA ID No.

Manifest
Document No.
00001

2. Page 1
of 1

3 Generator's Name and Mailing Address

Servall Laundry Site
8 Drayton Avenue
Bayshore, N.Y.

4 Generator's Phone ()

5 Transporter 1 Company Name

Parkline Maintenance Inc.

6. US EPA ID Number

1A 507 (NYSDEC)

A Transporter's Phone

631 286 4726

7 Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9 Designated Facility Name and Site Address

RGm Earthcare
972A Nichols Rd
Deer Park, N.Y.

10. US EPA ID Number

C. Facility's Phone

(631)
586 0002

11 Shipping Name and Description

12. Containers

No. Type

13.
Total
Quantity

14
Unit
Wt/Vol

a NON Hazardous Contaminated Soil/sludge
N816

001 D T 00006 Y

b

c

d

D Additional Descriptions for Materials Listed Above

E. Handling Codes Listed Above

15. Special Handling Instructions and Additional Information

Emergency Response #631 3252700

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name

R. Wenskus / R Wenskus

Signature

R. Wenskus

Month Day Year

01 08 02

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

Zito J

Signature

J Zito

Month Day Year

01 08 02

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19 Discrepancy Indication Space

20 Facility Owner or Operator Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name

Tracey Salamone

Signature

Tracey Salamone

Month Day Year

01 08 02

GENERATOR

TRANSPORTER

FACILITY

THIS MEMORANDUM

is an acknowledgement that a bill of lading has been issued and is not the Original Bill of Lading, not a copy or duplicate, covering the property named herein, and is intended solely for filing or record

Shipper's No. _____

(Name of Carrier) Terrace Transportation SCAC. _____

Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at Serv-All Laundry date 12/28/01 from 8 Drayton Ave Bayshore NY

the property described below in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said company, the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract, agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns

Consigned to

(Mail or street address of consignee - For purposes of notification only.)

Clean Water of New York, Inc.

Destination 3249 Richmond TR NY State NY County SI Zip 10303 Delivery Address* _____

Route fastest

(*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier _____

Car or Vehicle Initials _____

No. _____

Number of Packages	Description of articles, special marks, and exceptions	*Weight (Sub. to correction)	Class or rate	Check column	Subject to Section 7 of conditions of this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement: The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.
1	I/T Hydrogen peroxide - aqueous solution (more than 40%, but not more than 60% hydrogen peroxide) (stabilized as necessary) 51, UN2014, PG II - 1760 gals	1760 Gals			(Signature of consignor)
					If charges are to be prepaid, write or stamp here "To be Prepaid"
					Received \$ _____ to apply in prepayment of the charges on the property described herein
					Agent or Cashier
					Per _____ (The signature here acknowledges only the amount prepaid.)
					Charges Advanced \$ _____
Collect On Delivery \$ _____	and remit to _____	C.O.D. Charge to be paid by _____	Shipper ☐ Consignee ☐		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight"
Note - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

HM EMERGENCY RESPONSE TELEPHONE NUMBER (5172.604)

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per _____

Shipper [Signature] Agent: _____
Per Customer Eastern Env. Sols. Date: _____ Per: _____ Date: _____

Permanent post-office address of shipper
FORM NO. 2 BLS (Rev. 8/95)

3

THIS SHIPPING ORDER

must be legibly filled in, in Ink, in Indelible Pencil, or in Carbon, and retained by the Agent

Shipper's No. _____

(Name of Carrier)

Terrace Transportation

SCAC. _____

Carrier's No. _____

Received, subject to the classifications and tariffs in effect on the date of this Bill of Lading:

at Serv-All Laundry date 12/28/01 from 8 Drayton Ave Bay Shore NY

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own road or its own water line, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law whether printed or written, herein contained, (as specified in Appendix B to Part 1035) which are hereby agreed to by the shipper and accepted for himself and his assigns

Consigned to

(Mail or street address of consignee - For purposes of notification only)

Clean Water of New York, Inc.

Destination

State

County

Zip

Delivery Address*

3249 Richmond TR SI

NY

10303

same

Route

fastest

(*To be filled in only when shipper desires and governing tariffs provide for delivery thereat.)

Delivering Carrier

- TERRACE TRAN

Car or Vehicle Initials

- T #101

No.

VAC #3

Number of Packages

Description of articles, special marks, and exceptions

*Weight (Sub. to correction)

Class or rate

Check column

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of consignor)

If charges are to be prepaid, write or stamp here "To be Prepaid"

Received \$ _____ to apply in prepayment of the charges on the property described herein

Agent or Cashier

Per _____ (The signature here acknowledges only the amount prepaid.)

Charges Advanced

Collect On Delivery

and remit to

\$

C.O.D. Charge to be paid by

Shipper

Consignee

\$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight"
Note. - where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

HM EMERGENCY RESPONSE
TELEPHONE NUMBER (517.2.604)

This is to certify that the above-named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. Per _____

Shipper

Per:

Date:

Agent:

Per:

Date:

Permanent post-office address of shipper
FORM NO 2 BLS (Rev. 8/95)

2

Agent must detach and retain this Shipping Order and must sign the Original Bill of Lading.

ORIGINAL
NOT NEGOTIABLE

The above boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 4) of the consolidated freight classification.

The fibre boxes used for this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of Rule 41 of the consolidated freight classification.