

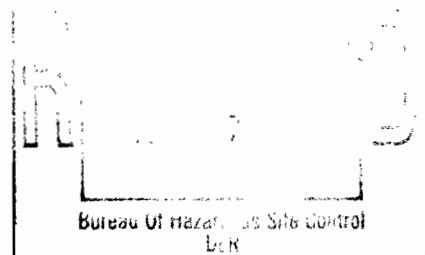
**Lawler,
Matusky
& Skelly
Engineers LLP**

Environmental Science & Engineering Consultants

July 3, 2000
File No. 650-395

Mr. Carl Hoffman
New York State Department of Environmental Conservation
Operation and Maintenance Section - Bureau of Hazardous Site Control
Division of Environmental Remediation
50 Wolf Road
Albany, New York 12233-7010

Re: **Servall Laundry Site**
Bay Shore, Suffolk County
Site No. 1-52-077, Work Assignment No. D002676-39.2
Monthly Report – MAY 2000



Dear Mr. Hoffman:

Attached please find the Monthly Report for May 2000, the seventh monthly report submitted under Work Assignment No. D002676-39.2.

The plant operated at an average flow rate of 152 gpm for the month and a total volume of 3,408,300 gallons of water was processed. The influent VOC concentration was 131.82 ppb; the plant removed approximately 97% of the influent VOCs. Effluent concentrations of total VOCs, manganese were within discharge limitations; effluent iron concentrations exceeded the discharge limit of 600 ppb, however, it is likely to be due to laboratory error. Influent compliance data has revealed that MTBE is present at concentrations of 3.1 ppb. The presence of MTBE, a gasoline additive, is indicative of a gasoline spill and not typically found at a site impacted by dry cleaner operations. This may indicate that groundwater contained within the extraction system's radius of influence is impacted by a nearby gasoline spill. Effluent MTBE concentration in May 2000 was 0.55 ppb. Pursuant to our conversations, LMS and H₂M proceeded with an investigation to determine the cause of the frequent air compression shutdowns. Preliminary results indicate that an undersized or faulty circuit breaker may be the cause and we are currently planning to replace it.

LMS will continue to provide task management of the plant operations until September 30, 2000 unless otherwise directed by the NYSDEC. If you have any questions or comments please feel free to contact me at x 249.

Very Truly Yours,

A handwritten signature in black ink, appearing to read 'Rob DeGiorgio'.

Robert DeGiorgio, P.E.
Project Manager

Enclosures

**SERVALL LAUNDRY SITE
SITE NO. 1-52-077
GROUNDWATER REMEDIATION – OPERATION AND MAINTENANCE**

MONTHLY REPORT

MAY 2000

**LAWLER, MATUSKY & SKELLY ENGINEERS LLP
Environmental Science & Engineering Consultants
One Blue Hill Plaza
Pearl River, NY 10965**

Servall Laundry
Site No. 1-52-077
Groundwater Remediation -2000 Operation and Maintenance
Summary Report

Plant Operating Data		unit	Monthly Average (to date)	Monthly Average (2000)	January-00	February-00	March-00	April-00	May-00	Total 2000
Flow Rate		gpm	110	158	160.44	160.39	160.2	158.57	152.09	-
Gallons processed		gallons	3,728,213	4,112,064	4,154,420	5,390,400	3,744,760	3,862,440	3,408,300	20,560,320
Percent of Time Operating		%	57%	63%	62%	86%	56%	60%	51%	-
Pounds of VOCs Treated		lb	1.4	3.9	2.16	4.42	4.51	4.58	3.63	19
Influent VOC concentration		ug/L	119	118	63.9	100.3	150.6	145.45	131.82	-
Effluent VOC concentration		ug/L	2.15	3.36	1.5	2	6.1	3.22	3.97	-
Influent Total Iron		ug/L	598	825	1270	308	689	426	1430	-
Effluent Total Iron		ug/L	295	650	100	32	32	75.5	3010	-
Influent Total Manganese		ug/L	585	603	593	542	517	499	864	-
Effluent Total Manganese		ug/L	549	506	583	533	492	506	417	-
VOC removal efficiency		%	97.5%	97.3%	97.7%	98.0%	95.9%	97.8%	97.0%	-
Total iron removal efficiency		%	62.7%	49.8%	92.1%	89.6%	95.4%	82.3%	-110.5%	-
Total Manganese removal efficiency		%	5.4%	11.7%	1.7%	1.7%	4.8%	-1.4%	51.7%	-
Cartridge Filters		ea	1	1	3	0	0	0	0	3
Sodium hypochlorite (12%)		lb	656	500	500	500	500	500	500	2,500
Polymer		lb	29	0	0	0	0	0	0	0
Hydrogen peroxide (50%)		lb	3574	4538	4538	4538	4538	4538	4538	22,691
Caustic (50%)		lb	1809	5426	5534	5177	5534	5355	5534	27,132
Hydrochloric Acid		lb	76	0	0	0	0	0	0	0
Spare Parts or other		at cost	\$519	\$39	\$196	\$0	\$0	\$0	\$0	\$196
Sludge generated (20% dewatered)		gal	25	25	25	25	25	25	25	125
Sludge disposed of		gal	21	0	0	0	0	0	0	0
Electricity (estimated)		kw hr	40562	37800	37,800	37,800	37,800	37,800	37,800	189,000
Gas (estimated)		therms	863	800	800	800	800	800	800	4,000
Compliance Sampling		at cost	\$933.70	\$651.10	\$655.50	\$650.00	\$650.00	\$650.00	\$650.00	3,256
Operator		Month	\$9,310	\$5,715	\$5,790	\$6,500	\$7,190	\$4,548	\$4,549	28,577
Redevelopment		at cost	\$2,389	\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	0
Management & Engineering		at cost	\$2,988	\$1,017	\$931	\$1,239.99	\$1,200.00	\$856.00	\$856.00	5,083
Consumables cost		\$	\$3,769	\$3,623	\$4,162.16	\$3,441.07	\$3,516	\$3,479	\$3,516	\$18,114
Sludge disposal cost		\$	\$58.82	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Utilities cost		\$	\$3,953	\$3,682	\$3,682	\$3,682	\$3,682	\$3,682	\$3,682	\$18,410
Services cost		\$	\$15,620	\$7,383	\$7,376	\$8,390	\$9,040	\$6,054	\$6,055	\$36,915
Operating Cost (Estimated)		\$	\$22,801	\$14,688	\$15,221	\$15,513	\$16,238	\$13,215	\$13,253	\$73,440

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

2000 Compliance Sampling

Influent											
Constituents	Discharge Criteria	units	January	February	March	April	May	June			
Chlorobenzene	5	ug/L	U			U	U	U			
Vinyl Chloride	2	ug/L	U			U	U	U			
1,1-Dichloroethene	5	ug/L	0.1	J		U	U	U			
Trichloroethene	5	ug/L	1	1	1	1.1	0.8				
Tetrachloroethene	5	ug/L	54	E	87	140	E	130	E	47	E
1,1-Dichloroethane	5	ug/L	0.2	J		U	U	U			
Toluene	5	ug/L	U	0.5		U	U	U			
cis-1,2-Dichloroethene	5	ug/L	0.3	J	0.6	0.8	0.6	0.3	J		
trans-1,2-Dichloroethene	5	ug/L	U			U	U	U			
Methylene Chloride	N/A	ug/L	U	1.6	JD	U	2.6	JDB	0.4	JB	
1,1,1-Trichloroethane	N/A	ug/L	0.5			U	0.4	J	0.4	J	
Chloroform	N/A	ug/L	0.2	J	0.2	U	1.9	JDB	6.4		
Bromodichloromethane	N/A	ug/L	U			U	U	0.38	J		
Trichlorofluoromethane	N/A	ug/L	U			U	U	0.1	J		
Tetrahydrofuran	N/A	ug/L						73			
Methyl tert-Butyl Ether	N/A	ug/L	7.6	9.4	8.8	8.8	J	3.1	J		
Total VOCs	N/A	ug/L	63.9	100.3	150.6	145.5	131.82				
Iron (total)	600 ⁴	ug/L	1270	308	689	426	1430				
Manganese (total)	600 ⁴	ug/L	593	542	517	499	864				
Alkalinity	N/A	mg/L	27	29	16	15	89				
Total Suspended Solids	N/A	mg/L	10	U	10	U	5	U	6		
Total Solids	N/A	mg/L	159	162	145	156	261				
Effluent											
Constituents	Discharge Criteria	units	January	February	March	April	May	June			
Chlorobenzene	5	ug/L	U			U	U	U			
Vinyl Chloride	2	ug/L	U			U	U	U			
1,1-Dichloroethene	5	ug/L	U			U	U	U			
Trichloroethene	5	ug/L	U			U	U	U			
Tetrachloroethene	5	ug/L	0.7	1.4	4.2	2.4	2.2				
1,1-Dichloroethane	5	ug/L	U			U	U	U			
Toluene	5	ug/L	U	0.2	JB	U	U	U			
cis-1,2-Dichloroethene	5	ug/L	U			U	U	U			
trans-1,2-Dichloroethene	5	ug/L	U			U	U	U			
Methylene Chloride	N/A	ug/L	U			U	0.2	JB	0.38	JB	
1,1,1-Trichloroethane	N/A	ug/L	0.3	J		U	U	U			
Chloroform	N/A	ug/L	0.3	J	0.7	B	0.1	JB	0.84		
Bromodichloromethane	N/A	ug/L	0.2	J	0.4	J	U	U			
Methyl tert-Butyl Ether	N/A	ug/L	U	0.4	0.8	0.5	J	0.55	J		
Total VOCs	N/A	ug/L	1.5	2	6.1	3.2	3.97				
Iron (total)	600 ⁴	ug/L	100	32	32	U	75.5	B	3010		
Manganese (total)	600 ⁴	ug/L	583	533	492	506	417				
Alkalinity	N/A	mg/L	2	U	38	41	43	25.8			
Total Suspended Solids	N/A	mg/L	10	U	10	U	5	U	5	U	
Total Solids	N/A	mg/L	170	171	163	183	168				

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.
- N-A - Not Analyzed
- "-" indicates not performed.
- Bold values exceed discharge limits.
- (P) pesticides/aroclor target analyte. Greater than 25% difference between the two GC columns.
- Concentration between EPA contract detection limit and instrument detection limit

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

2000 Compliance Sampling

Influent								
Constituents	Discharge Criteria	units	July	August	September	October	November	December
Chlorobenzene	5	ug/L						
Vinyl Chloride	2	ug/L						
1,1-Dichloroethene	5	ug/L						
Trichloroethene	5	ug/L						
Tetrachloroethene	5	ug/L						
1,1-Dichloroethane	5	ug/L						
Toluene	5	ug/L						
cis-1,2-Dichloroethene	5	ug/L						
trans-1,2-Dichloroethene	5	ug/L						
Methylene Chloride	N/A	ug/L						
1,1,1-Trichloroethane	N/A	ug/L						
Chloroform	N/A	ug/L						
Bromodichloromethane	N/A	ug/L						
Trichlorofluoromethane	N/A	ug/L						
Tetrahydrofuran	N/A	ug/L						
Methyl tert-Butyl Ether	N/A	ug/L						
Total VOCs	N/A	ug/L						
Iron (total)	600 ⁴	ug/L						
Manganese (total)	600 ⁴	ug/L						
Alkalinity	N/A	mg/L						
Total Suspended Solids	N/A	mg/L						
Total Solids	N/A	mg/L						
Effluent								
Constituents	Discharge Criteria	units	July	August	September	October	November	December
Chlorobenzene	5	ug/L						
Vinyl Chloride	2	ug/L						
1,1-Dichloroethene	5	ug/L						
Trichloroethene	5	ug/L						
Tetrachloroethene	5	ug/L						
1,1-Dichloroethane	5	ug/L						
Toluene	5	ug/L						
cis-1,2-Dichloroethene	5	ug/L						
trans-1,2-Dichloroethene	5	ug/L						
Methylene Chloride	N/A	ug/L						
1,1,1-Trichloroethane	N/A	ug/L						
Chloroform	N/A	ug/L						
Bromodichloromethane	N/A	ug/L						
Methyl tert-Butyl Ether	N/A	ug/L						
Total VOCs	N/A	ug/L						
Iron (total)	600 ⁴	ug/L						
Manganese (total)	600 ⁴	ug/L						
Alkalinity	N/A	mg/L						
Total Suspended Solids	N/A	mg/L						
Total Solids	N/A	mg/L						

Notes:

1. Analytical data analyzed by STL Laboratories.
2. (U) Undetected.
3. (J) Estimate value. Result is below sample practical quant instrument detection limit.
4. The combined effluent concentration of Iron and Manganese
5. N/A - No limit established for this site.
6. (E) Estimate value.
7. N-A - Not Analyzed
8. "-" indicates not performed.
9. Bold values exceed discharge limits.
10. (P) pesticide/aroclor target analyte. Greater than 25% dif
11. Concentration between EPA contract detection limit and

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

Graphical Data Trends

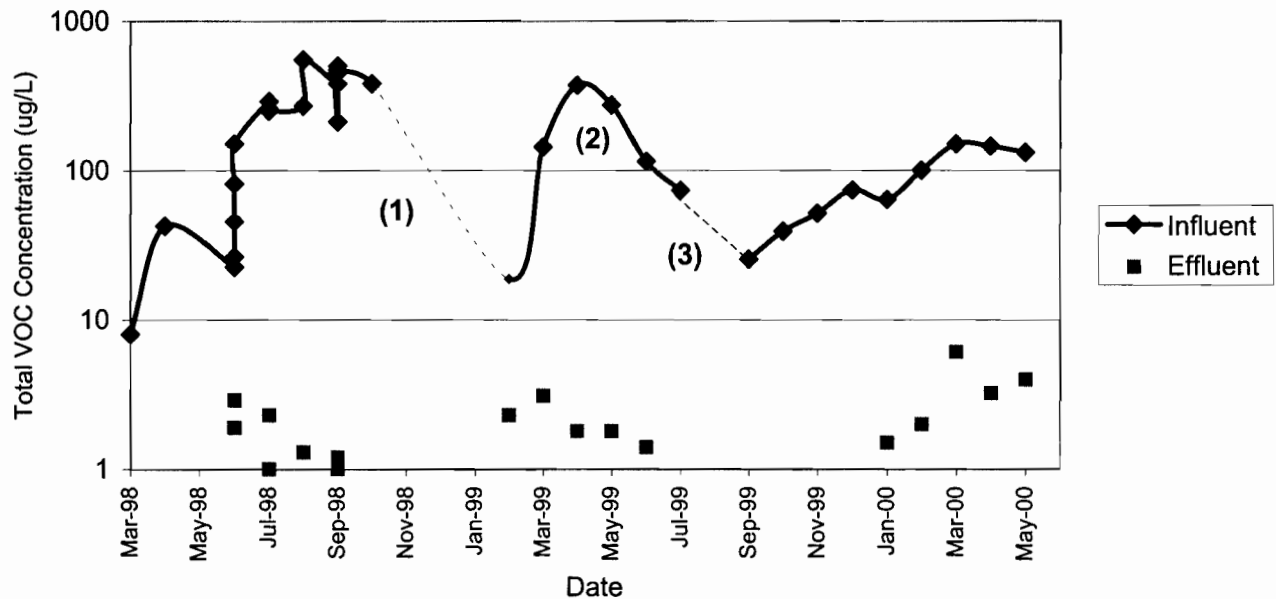


Figure 1 - Total Volatile Organic Compound (VOC) Influent and Effluent Trends

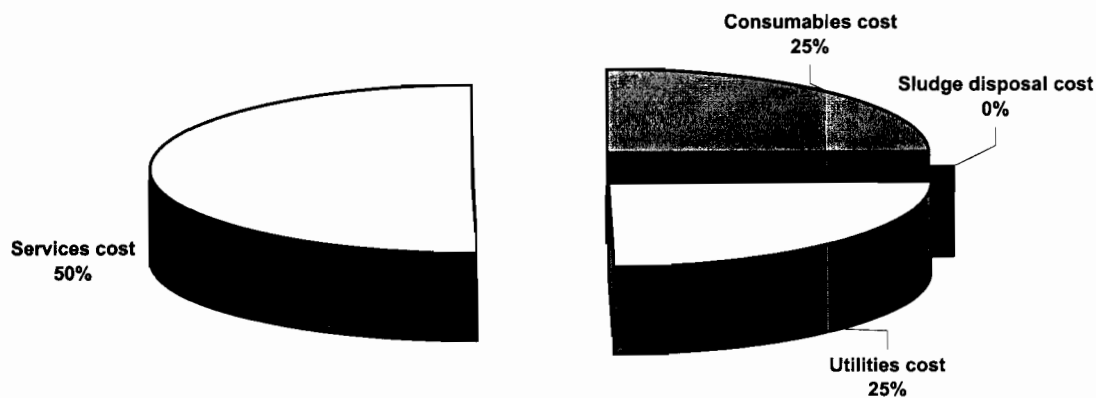


Figure 2 - Monthly Average Operating Cost Breakdown - to date is \$23,915
Avg. Monthly operating costs in the Year 2000 is \$14,688

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.

Groundwater Remediation - Operations and Maintenance Costs to Date

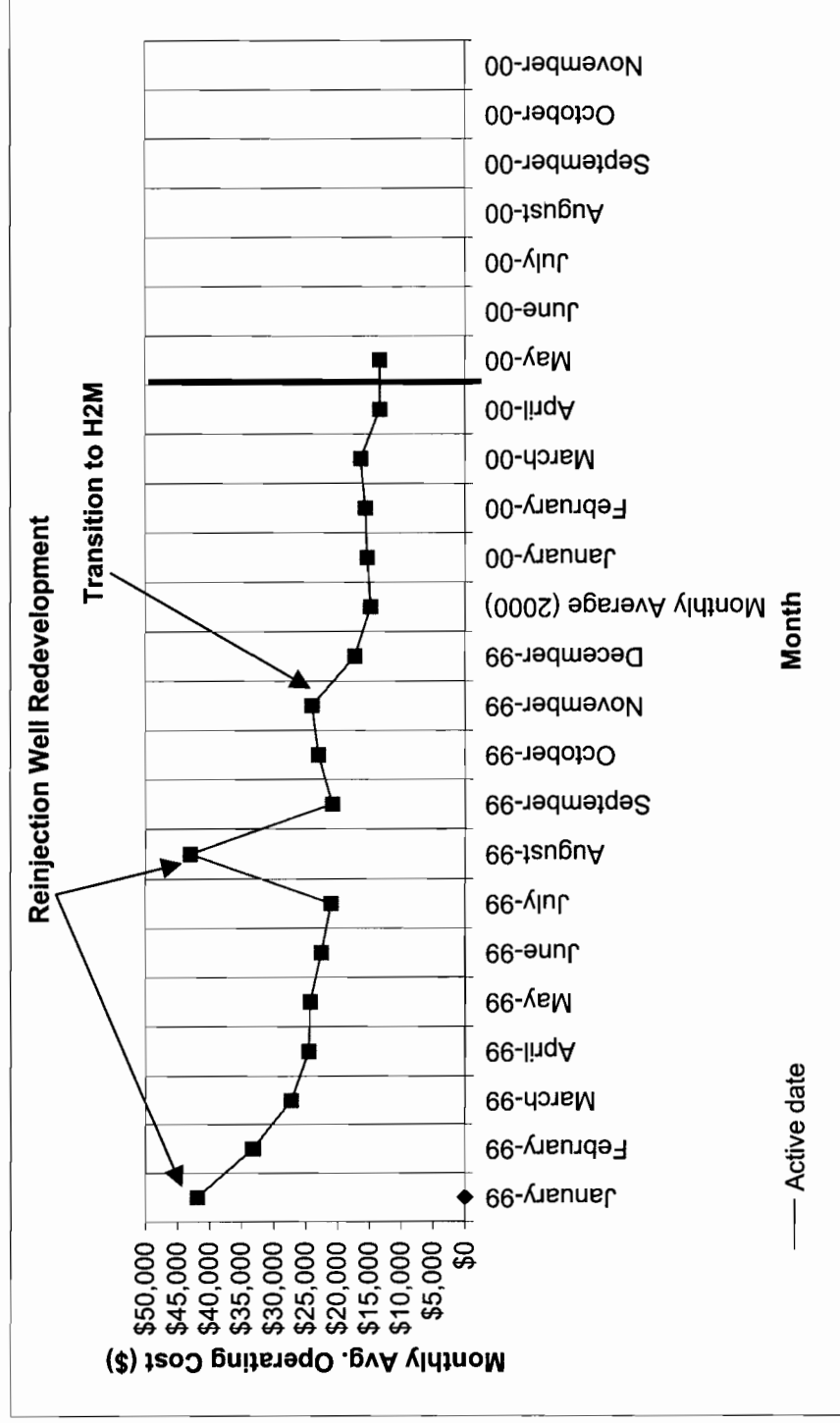


Figure 3 - Average Operating Cost Trends (Estimated)



575 Broad Hollow Road, Melville, NY 11747-5076
(516) 756-8000 • Fax: (516) 694-4122

June 26, 2000

Robert J. DiGiorgio
Lawler, Matusky, & Skelly Engineers, LLP
One Blue Hill Plaza
Pearl River, NY 10965

Re: Servall Laundry QWETP
Bay Shore, New York
May 2000 Operations Report

Dear Mr. DeGiorgio:

As you are aware, Holzmacher, McLendon, & Murrell, P.C. (H2M) is currently conducting the daily operation and maintenance duties for the above referenced site. A summary of activity with respect to the groundwater extraction and treatment plant for the month of May 2000 is provided below.

Overview

Routine equipment maintenance was performed and daily process equipment readings were collected during the month.

Event Schedule

The following timeline represents specific tasks completed during the month of May.

- 5/1/00 Clean effluent filters were installed into their respective canisters.
- 5/8/00 UV/Oxidation pump 4B and Sand Feed Filter pump 6B were put into service.

System went off-line. Reset air compressor circuit breaker to correct.
- 5/15/00 UV/Oxidation pump 4A and Sand Feed Filter pump 6A were put into service.

Contacted chemical supplier to replenish 1000 gallons of the caustic solution. They stated that a reply to the request would be made as soon as they worked out the details (cost, hauling).

System went off-line. Reset air compressor circuit breaker to correct.

- 5/22/00 UV/Oxidation pump 4B and Sand Feed Filter pump 6B were put into service.
- 5/24/00 Clean effluent filters were installed into their respective canisters.

Discussed the air compressor issue with an in-house electrical engineer. Reviewed circuit breaker sizing data and system power requirements. It was determined that the breaker capacity is close to the operational power requirement and that a larger capacity breaker would solve the problem of frequent tripping. Prior to modifying the system, an evaluation needs to be conducted to determine if the existing power supply can support the larger capacity breaker. A local contractor was contacted to inspect the system and provide a quote for the upgrade.

- 5/25/00 The monthly water compliance samples were collected, packed in ice, and shipped to Severn-Trent Laboratories via Federal Express, overnight delivery.
- 5/30/00 UV/Oxidation pump 4A and Sand Feed Filter pump 6A were put into service.

Available treatment chemical volumes as of the end of May, 2000 are as follows:

Tank	Level	Volume
Acid	54 in.	2644 gal
Caustic	3 in.	140 gal
Peroxide	34 in.	1705 gal

Plant Performance

Between May 1, 2000 and May 31, 2000, the treatment plant discharged 3,408,300 gallons of treated water. The average flowrate of the UV/Oxidation system was 152.09 gallons per minute during operating conditions. Operational data and daily chemistry records for the respective monitoring period have been included as an attachment to this report.

Waste Disposal

No waste was shipped off-site during the reporting period.

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.



Philip J. Schade, P.E.
Project Manager



David Nadler
Environmental Scientist

DWN/

enclosures

cc: Gary J. Miller, P.E./H2M

Servall Laundry Process Control Samples

Date	5/1/00	5/2/00	5/3/00	5/4/00	5/5/00	5/8/00	5/9/00	5/10/00	5/11/00	5/12/00	5/15/00	5/16/00
Time	8:05	9:20	8:00	8:15	8:30	8:20	9:00	7:55	8:20	8:15	8:00	8:05
Influent												
Flow	153.29	152.77	150.18	152.93	156.39	157.72	160.07	153.90	151.38	152.84	156.08	152.61
pH	5.80	5.74	5.73	5.70	5.69	5.72	5.79	5.74	5.90	5.84	5.79	5.72
Iron	0.5	0.6	0.5	0.5	0.6	0.5	0.6	0.5	0.5	0.6	0.5	0.6
UVOX												
Peroxide Residual	12	13	13	12	11	12	12	11	13	14	12	11
pH	5.91	5.96	5.94	5.92	5.68	5.71	5.74	5.67	5.68	5.72	5.81	5.90
Effluent												
pH	7.04	7.11	7.09	7.12	7.13	7.04	6.99	6.98	6.99	7.04	7.08	7.03
Iron	0.3	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.3
Chlorine	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2	0.3	0.2

Date	5/17/00	5/18/00	5/19/00	5/22/00	5/23/00	5/24/00	5/25/00	5/26/00	5/30/00	5/31/00		
Time	8:00	8:10	8:40	8:35	8:20	8:00	9:05	8:10	8:15	8:20		
Influent												
Flow	153.61	157.34	155.22	152.81	150.29	151.29	150.08	159.73	154.99	151.18		
pH	5.73	5.69	5.71	5.62	5.71	5.84	5.83	5.99	5.94	5.95		
Iron	0.4	0.3	0.4	0.5	0.5	0.4	0.3	0.4	0.3	0.3		
UVOX												
Peroxide Residual	12	11	13	12	11	13	14	12	11	10		
pH	5.93	5.88	5.92	5.89	5.90	5.94	5.83	5.86	5.90	5.91		
Effluent												
pH	7.11	7.09	6.96	6.99	7.10	7.09	7.11	7.07	7.05	7.11		
Iron	0.2	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.3		
Chlorine	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2		

Daily Operation Check List Servall Laundry Site

Page 1 of 2

Day	Mon	Tues	Wed	Thurs	Fri	Mon	Tues	Wed	Thurs	Fri
Date	5/1/00	5/2/00	5/3/00	5/4/00	5/5/00	5/8/00	5/9/00	5/10/00	5/11/00	5/12/00
Time	7:50	9:00	7:45	8:00	8:00	8:05	8:30	7:40	8:00	8:00
Extraction Well Level (feet)	54.3	57.0	57.3	56.8	57.2	56.3	54.9	53.8	52.9	55.1
Influent Flow Rate (gpm)	160.48	152.77	150.18	152.93	156.39	157.72	160.07	153.90	151.38	152.84
Influent Filter in Service (yes/no)	N0	N0	N0	N0	N0	N0	N0	N0	N0	N0
Inlet Pressure (psi)	20	18	20	20	20	20	20	20	20	20
Outlet Pressure (psi)	18	14	15	16	16	16	18	18	18	16
Cartridge Filter Flow Rate (gpm)	143.57	147.91	143.61	142.90	143.17	142.35	141.73	142.37	145.72	143.90
Equalization Tank										
Level (inches)	52.17	51.92	52.04	51.93	50.90	51.41	52.09	51.86	51.22	51.35
pH	7.79	7.38	7.39	7.39	7.41	7.37	7.40	7.39	7.36	7.39
Mixer (on/off)	off	off	OFF	off	OFF	off	OFF	off	off	OFF
Acid Pump Settings: Speed / Stroke	off	off	OFF	off	OFF	off	OFF	off	off	OFF
UV/Oxidation Pump in Service (4A/4B)	4A	4A	4A	4A	4A	4B	4B	4B	4B	4B
UV/Oxidation Flow Rate (gpm)	153.11	153.62	152.39	151.09	152.24	154.36	154.72	153.63	155.21	150.19
UV/Oxidation Unit										
Lamp # 1 (on/off)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
KV	252	252	252	252	252	252	252	252	252	252
Amps	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Time	10924.60	10938.71	10948.60	10961.84	10968.71	10974.33	10988.11	11001.26	11020.40	11027.74
Lamp # 2 (on/off)	off	off	OFF	OFF	OFF	OFF	OFF	off	off	OFF
KV	0	0	0	0	0	0	0	0	0	0
Amps	0	0	0	0	0	0	0	0	0	0
Time	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86
Lamp # 3 (on/off)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
KV	258	258	258	258	258	258	258	258	258	258
Amps	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Time	9346.81	9360.91	9371.80	9385.03	9391.93	9397.55	9411.32	9423.44	9442.60	9449.93
Peroxide Pump Settings: Speed / Stroke	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
Peroxide Residual Concentration (mg/l)	12	13	13	12	11	12	12	11	13	14
Totalizer Reading (gpm)	880922.08	882078.10	883203.10	884399.0	885528.0	886657.0	887881.20	889103.10	890340.0	891573.470

Daily Operation Check List

Servall Laundry Site

Page 2 of 2

Date	5/1/00	5/2/00	5/3/00	5/4/00	5/5/00	5/8/00	5/9/00	5/10/00	5/11/00	5/12/00
pH Adjust Tank	52.73	51.23	52.01	51.90	51.86	51.80	50.99	51.22	52.39	51.94
Level (inches)	6.73	6.71	6.65	6.63	6.70	6.71	6.69	6.68	6.69	6.80
pH	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Mixer (on/off)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Caustic Pump Settings: Speed / Stroke	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45
Polymer Feed Settings	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Solution Pump: Speed / Stroke	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45
Dilution Water Rate	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45	50/45
Polymeer Bucket Weight (lbs.)	6A	6A	6A	6A	6A	6A	6B	6B	6B	6B
Sand Filter Feed Pump in Service (6A/6B)	6A	6A	6A	6A	6A	6A	6B	6B	6B	6B
Sand Filters	20	20	20	20	22	18	20	20	20	20
Filter # 1 inlet pressure (psi)	20	20	20	18	20	22	20	20	20	22
Filter #1 outlet pressure (psi)	20	20	22	20	22	20	20	20	20	18
Filter # 2 inlet pressure (psi)	20	20	22	20	20	20	20	20	22	18
Filter #2 outlet pressure (psi)	20	20	20	20	20	22	20	20	20	20
Filter # 3 inlet pressure (psi)	20	20	22	20	22	20	18	22	20	20
Filter #3 outlet pressure (psi)	20	22	22	22	20	20	20	20	20	20
Filter # 4 inlet pressure (psi)	22	20	20	24	20	18	22	20	20	20
Filter #4 outlet pressure (psi)	143.88	145.90	144.37	143.61	145.04	142.81	142.20	144.97	143.64	144.28
Effluent Flow Rate (gpm)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Effluent Filter in Service (yes/no)	20	16	18	20	16	16	16	16	16	16
Inlet Pressure (psi)	16	10	12	12	10	10	10	10	10	12
Outlet Pressure (psi)	68.13	58.71	58.63	59.04	59.11	59.83	57.20	56.18	56.38	55.01
Reinjection Well Level (feet)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
Chemical Storage Levels	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
Caustic Level (NaOH)	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
Peroxide Level (H ₂ O ₂)	160	150	140	140	150	160	150	150	150	160
Acid Level (H ₂ SO ₄)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
Air Compressor (psi)	60/85	60/85	60/85	60/85	60/85	60/85	60/85	60/85	60/85	60/85
Compressed Air Dryer (on/off)	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2
Chlorine Pump: Speed / Stroke	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2
Chlorine Residual Concentration (mg/l)	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.1	0.1	0.2

Daily Operation Check List
Servall Laundry Site

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Day	Mon.	Tues.	Wed.	Thurs.	Fri.	Mon.	Tues.	Wed.	Thurs.	Fri.
Date	5/15/00	5/16/00	5/17/00	5/18/00	5/19/00	5/22/00	5/23/00	5/24/00	5/25/00	5/26/00
Time	8:00	7:50	8:00	8:20	8:25	8:20	8:00	7:50	8:30	7:55
Extraction Well Level (feet)	57.0	56.4	59.1	60.2	60.3	60.7	61.2	59.8	59.4	59.5
Influent Flow Rate (gpm)	156.08	152.61	153.61	157.34	158.22	152.81	150.29	151.29	150.08	159.73
Influent Filter in Service (yes/no)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Inlet Pressure (psi)	20	20	20	20	22	22	20	22	20	20
Outlet Pressure (psi)	15	16	18	18	18	18	20	16	16	16
Cartridge Filter Flow Rate (gpm)	148.39	146.21	145.23	147.21	144.20	143.71	144.54	143.92	144.71	140.19
Equalization Tank										
Level (inches)	52.07	52.11	51.12	50.16	52.34	51.68	51.40	51.20	51.88	52.33
pH	7.49	7.48	7.46	7.49	7.50	7.49	7.44	7.46	7.48	7.39
Mixer (on/off)	off	off	off	off	off	off	off	off	off	off
Acid Pump Settings: Speed / Stroke	off	off	off	off	off	off	off	off	off	off
UV/Oxidation Pump in Service (4A/4B)	4A	4A	4A	4A	4A	4B	4B	4B	4B	4B
UV/Oxidation Flow Rate (gpm)	151.23	152.67	153.41	154.09	153.17	154.08	150.91	149.81	150.09	149.72
UV/Oxidation Unit										
Lamp # 1 (on/off)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
KV	252	252	252	252	252	252	252	252	252	252
Amps	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
Time	11030.61	11045.27	11061.30	11071.53	11079.24	11083.91	11098.90	11109.44	11121.52	11136.60
Lamp # 2 (on/off)	off	off	off	off	off	off	off	off	off	off
KV	0	0	0	0	0	0	0	0	0	0
Amps	0	0	0	0	0	0	0	0	0	0
Time	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86	5984.86
Lamp # 3 (on/off)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
KV	258	258	258	258	258	258	258	258	258	258
Amps	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Time	9452.81	9467.47	9483.51	9493.73	9511.54	9516.26	9532.26	9543.50	9555.61	9570.67
Peroxide Pump Settings: Speed / Stroke	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
Peroxide Residual Concentration (mg/l)	12.8	11	12	11	13	12	11	13	14	12
Totalizer Reading (gpm)	90274410	90386300	90500700	90619020	90731820	90847830	90962330	91076090	91188490	91278720

Daily Operation Check List

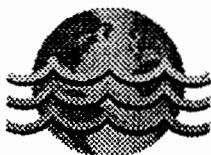
Servall Laundry Site

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Date	5/15/00	5/16/00	5/17/00	5/18/00	5/19/00	5/20/00	5/21/00	5/22/00	5/23/00	5/24/00	5/25/00	5/26/00
pH Adjust Tank												
Level (inches)	51.83	52.37	51.88	52.19	52.17	52.87	53.18	52.90	52.70	51.83		
pH	6.78	6.72	6.70	6.77	6.73	6.73	6.72	6.74	6.74	6.73		
Mixer (on/off)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON		
Caustic Pump Settings: Speed / Stroke	50/35	50/35	50/35	50/35	45/35	45/35	45/35	45/35	45/35	45/35		
Polymer Feed Settings	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF		
Solution Pump: Speed / Stroke												
Dilution Water Rate												
Polymeer Bucket Weight (lbs.)												
Sand Filter Feed Pump in Service (6A/6B)	6A	6A	6A	6A	6A	6B	6B	6B	6B	6B		
Sand Filters												
Filter # 1 inlet pressure (psi)	22	20	20	20	22	20	20	20	22	20		
Filter #1 outlet pressure (psi)	20	20	22	22	22	20	18	20	20	20		
Filter # 2 inlet pressure (psi)	20	20	18	20	22	18	20	18	22	20		
Filter #2 outlet pressure (psi)	20	22	18	20	22	20	20	18	22	20		
Filter # 3 inlet pressure (psi)	20	18	20	20	24	18	20	20	22	20		
Filter #3 outlet pressure (psi)	20	22	22	20	20	18	20	22	22	20		
Filter # 4 inlet pressure (psi)	20	20	22	20	20	20	20	20	20	20		
Filter #4 outlet pressure (psi)	22	20	20	22	22	22	20	20	22	20		
Effluent Flow Rate (gpm)	143.40	142.38	140.90	141.19	142.37	141.90	143.67	144.55	145.18	143.91		
Effluent Filter in Service (yes/no)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		
Inlet Pressure (psi)	16	16	16	16	20	20	22	20	16	16		
Outlet Pressure (psi)	12	10	10	12	14	14	16	16	10	10		
Reinjection Well Level (feet)	57.91	56.90	55.92	56.38	55.81	54.17	55.38	55.62	55.17	55.72		
Chemical Storage Levels												
Caustic Level (NaOH)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Peroxide Level (H ₂ O ₂)	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3		
Acid Level (H ₂ SO ₄)	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9		
Air Compressor (psi)	140	150	150	150	150	140	150	150	150	150		
Compressed Air Dryer (on/off)	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON		
Chlorine Pump: Speed / Stroke	60/85	60/85	60/85	60/85	60/85	60/85	60/85	60/85	60/85	60/85		
Chlorine Residual Concentration (mg/l)	0.3	0.4	0.1	0.1	0.2	0.1	0.2	0.2	0.1	0.1		

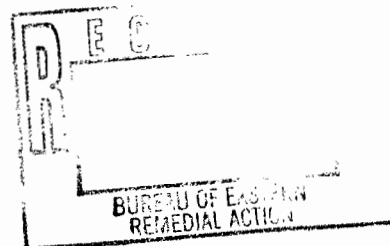
Day	Mon.	Tues.							
Date	5/30/00	5/31/00							
Time	9:40	8:50							
Extraction Well Level (feet)	55.9	56.7							
Influent Flow Rate (gpm)	154.99	151.18							
Influent Filter in Service (yes/no)	NO	NO							
Inlet Pressure (psi)	20	20							
Outlet Pressure (psi)	16	18							
Cartridge Filter Flow Rate (gpm)	147.33	146.81							
Equalization Tank									
Level (inches)	51.23	52.17							
pH	7.50	7.43							
Mixer (on/off)	off	OFF							
Acid Pump Settings: Speed / Stroke	off	OFF							
UV/Oxidation Pump in Service (4A/4B)	4A	4A							
UV/Oxidation Flow Rate (gpm)	150.27	145.93							
UV/Oxidation Unit									
Lamp # 1 (on/off)	ON	ON							
KV	252	252							
Amps	7.8	7.8							
Time	1145.23	1158.35							
Lamp # 2 (on/off)	off	OFF							
KV	0	0							
Amps	0	0							
Time	584.86	584.86							
Lamp # 3 (on/off)	ON	ON							
KV	258	258							
Amps	7.0	7.0							
Time	954.36	952.48							
Peroxide Pump Settings: Speed / Stroke	5050	5050							
Peroxide Residual Concentration (mg/l)	11	10							
Totalizer Reading (gpm)	91591250	91505010							

[illegible]



TRANSMITTAL LETTER

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TO: Robert Lee

COMPANY: New York State Department of Environmental Conservation

DATE: 7/20/00

RE: North Sea Landfill

☐ Disks

☐ Permit Applications

☒ Report(s)

☐ Certificate

☐ Signed Agreement

☐ Under Separate Cover Via

☐ Specs.

COPIES	DATED	DESCRIPTION
1	7/20/00	April 2000 Monthly Monitoring Report
1	7/20/00	May 2000 Monthly Monitoring Report

Comments:

Attached for your use are copies of the April and May 2000 Monthly Monitoring reports for the North Sea Landfill. Please call if you have any questions.

Very truly yours,

Keith W. Butler

Project Manager - Hydrogeologist