QUARTERLY DATA SUMMARY REPORT

NIAGARA COUNTY REFUSE DISTRICT SITE

Wheatfield, Niagara County, New York **(NYSDEC Site No. 9-32-026)**

SUBMITTED TO:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NEW YORK STATE DEPARMENT OF ENVIRONMENTAL CONSERVATION

SUBMITTED FOR:

NIAGARA COUNTY REFUSE DISTRICT AND PRP GROUP

PREPARED BY:

PARSONS
180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221
(716) 633-7074 Fax (716) 633-7195

November 2006

PARSONS

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TABLE OF CONTENTS

Page No.

TABLE OF CONTENTS

Page No.

LIST OF TABLES

LIST OF FIGURES

SECTION 1

INTRODUCTION

The Niagara County Refuse Site Potentially Responsible Parties (PRP) Group completed a remedial action at the Niagara County Refuse Site (Site), Wheatfield, New York in 2000. The remedial action was conducted in accordance with the United States Environmental Protection Agency (USEPA) Record of Decision (USEPA, 1993) and the United States District Court Consent Decree (USEPA, 1995). The PRP Group is currently conducting operations, maintenance, and monitoring (OM&M) in accordance with the USEPA-approved OM&M Manual (CRA, 2000). This data report summarizes monitoring activities from July through September 2006.

1.1 PROCEDURES

1.1.1 Effluent Sampling

One effluent sample per month was collected from Wet Well A, which receives water from the leachate collection system surrounding the landfill. Composite 24-hour samples were collected from Wet Well A using an automated sampler.

1.1.2 Groundwater Sampling

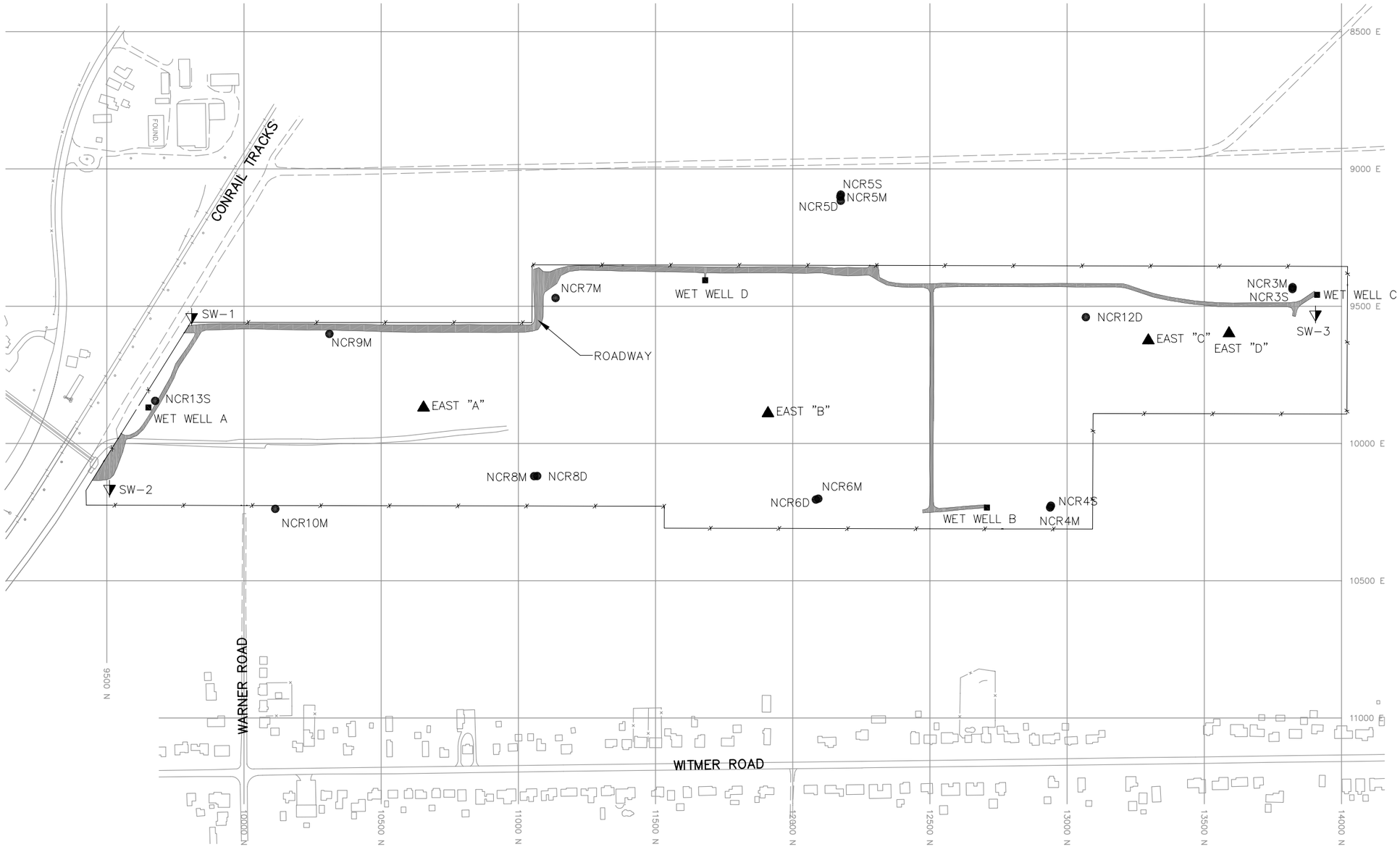
Groundwater samples were not collected during this reporting period. In accordance with the approved OM&M Plan (CRA, 2000), the groundwater sampling frequency was decreased from a quarterly to a semi-annual basis in 2003, and from a semi-annual to an annual basis beginning in 2006. Annual groundwater sample collection will continue for an undetermined time period. The next round of groundwater samples is scheduled to be collected in October 2006.

1.1.3 Water Level Measurements

Water levels were measured during monthly Site inspections in July, August, and September 2006. Water levels were measured from four observation well locations (piezometers East A, East B, East C, and East D), four effluent monitoring locations (wet wells A, B, C, and D), and four monitoring well locations (NCR-3S, NCR-4S, NCR-5S, and NCR-13S). The water levels were measured with an electronic water level indicator, and reported as an elevation above mean sea level. Figure 1.1 shows the locations of the water level monitoring points.

1.1.4 Site Inspections

Monthly Site inspections were conducted on July 14, August 8, and September 18, 2006. During the Site inspections, the manholes, wet wells, landfill cap, wetlands, perimeter fence, drainage ditches, swale outlets, culverts, gas vents, and monitoring wells were each visually inspected.



LEGEND

▲EAST "A"	WATER LEVEL MONITORING WELL LOCATION
▽SW-2	SURFACE WATER MONITORING LOCATION
■WET WELL A	EFFLUENT MONITORING LOCATION
●NCR13S	GROUNDWATER QUALITY MONITORING LOCATION

400 200 0 400 800

SCALE: 1"=400'

FIGURE 1.1

NIAGARA COUNTY REFUSE SITE
WHEATFIELD, NEW YORK
SITE PLAN

PARSONS
180 LAWRENCE BELL DRIVE, SUITE 104, WILLIAMSVILLE, N.Y. 14221, PHONE: 716-633-7074

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No XREFs

SECTION 2

RESULTS

This section describes the results of all OM&M activities conducted from July through September 2006. Activities during this quarter included effluent sampling, water level measurements, maintenance work, and Site inspections.

2.1 EFFLUENT SAMPLES

Effluent samples were collected monthly by O&M Enterprises, and analyzed by the City of North Tonawanda. The analytical results from these samples were used by the City to confirm that the effluent received from the Site met the criteria for acceptance by the City treatment system. These data are not presented in the quarterly monitoring reports, but will be summarized in the 2006 annual monitoring report. The City of North Tonawanda Industrial Wastewater Discharge Permit (February 2001 through January 2004) has been included in Appendix A. This Industrial Wastewater Discharge Permit will remain in effect until a renewed permit is completed. A renewed permit is currently being developed.

2.2 GROUNDWATER ANALYTICAL RESULTS

Monitoring wells NCR-3S, NCR-4S, NCR-5S, and NCR-13S were not sampled during this reporting quarter, due to the current annual groundwater sampling schedule specified in the OM&M Manual. Groundwater sample collection is planned for October 2006. The locations of the monitoring wells are provided in Figure 1.1. The USEPA, NYSDOH, and NYSDEC have agreed to reduce the number of analytical parameters monitored in the groundwater samples (see Appendix B). Groundwater samples collected in October 2006 will be analyzed for inorganic parameters (metals) only. Based on the analytical results through 2006, the list of analytes will be re-evaluated prior to groundwater sample collection in 2007.

2.3 WATER LEVELS

Results of all water level measurements collected during this reporting period are presented in Appendix C. Water levels were collected from the monitoring locations on a monthly basis. Water levels in the monitoring wells generally increased over the reporting quarter. Two of the four wells contained no measurable water in July and August, and one well was also dry in September. Measured water levels were consistent with levels observed in previous years between July and September.

2.4 SITE INSPECTIONS

A summary of the Site inspection findings is included in Table 2.1. Copies of the Site Inspection Logs have been included in Appendix D.

Each of the inspections found the manholes and wet wells to be in good condition. Water levels were measured in the wet wells during the inspections.

Examination of the landfill cap vegetative cover included checking for erosion, bare areas, washouts, leachate seeps, height of vegetation, and assessing the condition of the vegetation. No surface erosion, bare spots, or leachate seeps were noted. The grass covering the landfill was relatively high during the July and August inspections but, the cover was mowed shortly prior to the September inspection.

Additionally, during the examination of the landfill cap, the access roads were examined for erosion, potholes/puddles, and obstructions. All aspects of the access roads that were examined were deemed acceptable.

The wetlands were visually examined to assess the condition of the vegetation, change in water levels, and to observe general conditions. Wetland vegetation was noted to be in good condition during the Site inspections. A slightly lower than normal water level was noted in the wetland area during July, a normal water level was noted in August, and the water level was observed to be higher in September, due to the rains shortly prior to the inspection.

All other parts of the landfill system which were examined, including the drainage ditches, swale outlets, culverts, and gas vents, were found to be in acceptable condition during the reporting period.

2.5 MAINTENANCE

Scheduled maintenance during the reporting period included pump maintenance and mowing. Copies of the Maintenance Record Logs have been included in Appendix E. On August 8, the vegetative cover was mowed along the perimeter fence line. On August 24, wet well pumps were pulled and pressure washed, the amperage draw was checked, and the pumps were reinstalled.

Occasional unscheduled maintenance at the landfill is required. On August 8, damage due to vandalism was identified at a man-gate entrance to the landfill, and was promptly repaired. On September 18, a hole in the perimeter fence was repaired, and a damaged sign on the perimeter fence was repaired. No major repairs were required.

2.6 OM&M OVERSIGHT

Parsons' Quality Assurance (QA) work included periodic oversight of OM&M activities by O&M Enterprises, Inc., review of monthly inspection and monitoring data, and periodic communications with O&M Enterprises. Upon completion of work performed by O&M Enterprises, routine activity report forms were completed. Parsons reviewed the report forms for completeness, and recorded problems, if any, on the forms (Appendices C, D, and E).

Table 2.1

Quarterly Site Inspection Results Summary

Inspection Item	Acceptable	Requires Action	Comments
Manholes	X		
Wet Wells	X		Water levels were measured monthly.
Wetlands	X		Water level was noted to be slightly low during July, normal in August, and high in September due to recent precipitation.
Perimeter Fence		X	Hole observed in fence, man-gate and sign damaged. All three items were repaired.
Condition of Roads	X		No potholes were observed.
Integrity of the Cap	X		No erosion was observed.
Drainage Ditches/Swales	X		
Gas Venting System	X		
Wells	X		Water levels were measured monthly.
Culverts	X		
Other	X		

SECTION 3

CONCLUSIONS

The following conclusions were developed based on the data collected during this reporting period:

- The landfill was inspected monthly and is appropriately maintained.
- As specified in the OM&M Manual, annual groundwater monitoring has commenced this year. Groundwater samples are currently scheduled to be collected in October 2006.
- Water levels were measured in the wet wells, monitoring wells, and the observation wells on the landfill on a monthly basis. Water levels in the monitoring wells generally increased over the reporting quarter. Two of the four wells contained no measurable water in July and August, and one well was dry in September. Measured water levels were consistent with levels observed in previous years between July and September.
- Wetlands vegetation appeared healthy, and in good condition, based on monthly visual assessments.

SECTION 4

REFERENCES

Record of Decision, Niagara County Refuse Site, Wheatfield, Niagara County, New York; United States Environmental Protection Agency, September 1993.

Consent Decree, Docket 946-849; United States Environmental Protection Agency, February 3, 1995.

Operations, Maintenance and Monitoring Manual for Niagara County Refuse District Site Remedial Construction, Wheatfield, Niagara County, New York; Conestoga-Rovers & Associates, December 2000.

APPENDIX A

CITY OF NORTH TONAWANDA INDUSTRIAL WASTEWATER DISCHARGE PERMIT

CITY OF NORTH TONAWANDA

4/5/95

INDUSTRIAL WASTEWATER DISCHARGE PERMIT

Permit Number: 2628010

In accordance with the provisions of the Clean Water Act as amended, all terms and conditions set forth in this permit, the City of North Tonawanda Local Sewer Use Ordinance and any applicable Federal, State or local laws or regulations, authorization is hereby granted to: Niagara County Department of Public Works

Engineering Department

59 Park Avenue

Lockport, New York 14094

Classified by S.I.C. Number(s): _N/A_

for the discharge of: groundwater and other wastes generated during Remedial Action construction and implementation into the City of North Tonawanda Sewerage System.

This permit is granted in accordance with an application filed in the offices of the Treatment Plant Superintendent located at 830 River Road, and in conformity with specifications and other required data submitted in support of the above named application, all of which are filed with and considered part of this permit. This permit is also granted in accordance with discharge limitations and requirements, monitoring and reporting requirements, and all other conditions set forth in Parts I and II hereof.

Effective this 1st day of February, 2001

To expire the 31st day of January, 2004

Paul Joseph Roof

Treatment Plant Superintendent

Signed this 30th day of January, 2001

PERMIT NUMBER: 2628010

PART I. SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until the expiration date, discharge from the permitted facility outfall(s) shall be limited and monitored by the permittee as specified below (Refer to attached map for sampling and monitoring sites).

Sample Point	Parameter	Discharge Limitations mg/l except pH Daily Max.	Sampling Period	Sampling Type
001	Total Flow		1 Sampling Day Monthly	
7/	Benzene	Monitor Only	1 Sampling Day Monthly	
7/	2-Butanone	Monitor Only	1 Sampling Day Monthly	
7/	Chlorobenzene	Monitor Only	1 Sampling Day Monthly	
7/	1,1-Dichloroethane	Monitor Only	1 Sampling Day Monthly	
7/	1,2-Dichloroethylene	Monitor Only	1 Sampling Day Monthly	
7/	Ethylbenzene	Monitor Only	1 Sampling Day Monthly	
7/	Methylene Chloride	Monitor Only	1 Sampling Day Monthly	
7/	Styrene	Monitor Only	1 Sampling Day Monthly	

PERMIT NUMBER: 2628010

Sample Point	Parameter	Discharge Limitations mg/l except pH Daily Max.	Sampling Period	Sampling Type
7/	Toluene	Monitor Only	1 Sampling Day Monthly	
7/	Xylenes (total)	Monitor Only	1 Sampling Day Monthly	
7/	1,4-Dichlorobenzene	Monitor Only	1 Sampling Day Monthly	
4/	Phenols (4AAP)	5/	1 Sampling Day Monthly	
7/	2-Methylphenol	Monitor Only	1 Sampling Day Monthly	
7/	3&4 Methylphenol	Monitor Only	1 Sampling Day Monthly	
7/	Dibenzofuran	Monitor Only	1 Sampling Day Monthly	
7/	Aluminum	2.0	1 Sampling Day Monthly	
	Chromium	4.7	1 Sampling Day Monthly	
	Lead	4.6	1 Sampling Day Monthly	
	Nickel	3.4	1 Sampling Day Monthly	
4/	Zinc	5/	1 Sampling Day Monthly	

PERMIT NUMBER: 2628010

Sample Point	Parameter	Discharge Limitations mg/l except pH Daily Max.	Sampling Period	Sampling Type
	Iron	10	1 Sampling Day Monthly	
7/	Magnesium	Monitor Only	1 Sampling Day Monthly	
7/	Manganese	Monitor Only	1 Sampling Day Monthly	
7/	Sodium	Monitor Only	1 Sampling Day Monthly	
	pH	Monitor Only	1 Sampling Day Monthly	
7/	BOD	Monitor Only	1 Sampling Day Monthly	
7/	Total Suspended Solids	Monitor Only	1 Sampling Day Monthly	
7/	Total Phosphorous	Monitor Only	1 Sampling Day Monthly	

PART I. SPECIFIC CONDITIONS

B. DISCHARGE REPORTING REQUIREMENTS

During the period beginning the effective date of this permit and lasting until the expiration date, discharge monitoring results shall be summarized and reported by the permittee on the no later than the days specified below.

Sample Point	Parameter	Initial Monitoring Report	Subsequent Monitoring Reports
001	Total Flow		Monthly
	Benzene		Monthly
	2-Butanone		Monthly
	Chlorobenzene		Monthly
	1,1-Dichloroethane		Monthly
	1,2-Dichloroethylene		Monthly
	Ethylbenzene		Monthly
	Methylene Chloride		Monthly
	Styrene		Monthly
	Toluene		Monthly
	Total Xylenes		Monthly
	1,4-Dichlorobenzene		Monthly
	Phenols (4AAP)		Monthly
	2-Methylphenol		Monthly
	3 & 4 - Methylphenol		Monthly
	Dibenzofuran		Monthly
	Aluminum		Monthly
	Chromium		Monthly

PERMIT NUMBER: 2628010

Sample Point	Parameter	Initial Monitoring Report	Subsequent Monitoring Reports
	Lead		Monthly
	Nickel		Monthly
	Zinc		Monthly
	Iron		Monthly
	Magnesium		Monthly
	Manganese		Monthly
	Sodium		Monthly
	pH		Monthly
	BOD		Monthly
	Total Suspended		Monthly
	Total Phosphorous		Monthly

PART I. SPECIFIC CONDITIONS

C. SPECIAL REQUIREMENTS

1) This permit is written for a duration of two years. Upon renewal of this permit, all parameters will be re-evaluated to develop a parameter list based on chemical concentrations present in the extracted groundwater.

2) Frequency of monitoring is to be re-evaluated after the first year.

3) All monitoring reports (initial and subsequent), are to be received by the Superintendent, no later than twenty-eight (28) days after the end of the monitoring period.

4) In accordance with Section 75-10 of the North Tonawanda Sewer Use Law, the City is granting a variance for the discharge of four pollutants, Total Phenolic Compounds and, Zinc, Aluminum and Iron respectively. This granting of this variance for these four parameters is based on two factors. The first is that it will cause undue hardship to require the pretreatment of the wastewater before discharge. Secondly the discharge of these pollutants at the proposed concentrations will not cause adverse effects on the receiving stream water quality, the waste water treatment plant or the safety of plant personnel.

5) The following mass limits will apply to the discharge of Phenols (4AAP), and Zinc, Aluminum and Iron.

Phenols (4AAP) - .964 lbs/day

Zinc - .318 lbs/day

Aluminum - 1.3 lbs/day

Iron - 7.14 lbs/day

6) It is required that the Permittee have a Site Operations Manual available at all times. All emergency phone numbers must be listed in an appropriate place for easy access by operations personnel. A log of pumping operations must be maintained on site and The permittee shall not discharge to the City of North Tonawanda sewerage treatment works during overflow conditions. The permittee is required to cease all pumping operations

upon verbal request of the North Tonawanda Wastewater Treatment Plant Superintendent or his assigns. Pumping operations shall not recommence until approved by the North Tonawanda Wastewater Treatment Plant Superintendent or his assigns.

7) Analysts are required to use GC/MS method detection limits for most organics (if GC/MS is appropriate); GC/ECD for PCBS/Pesticides and GF method detection limits for metals (where GF is appropriate), as contained in attachment 5 of the NYSDEC TOGs 1.3.8 - New Discharges to Publicly Owned Treatment Works - dated 10/26/94.

NYS New Discharge Form
for new or increased discharges
Niagara County Landfill

1. POTW NAME AND SPDES PERMIT NUMBER	2. NAME AND ADDRESS OF PROPOSED DISCHARGE
City of North Tonawanda Wastewater Treatment Plant	Niagara County Refuse Site
830 River Road	
North Tonawanda, New York 14120	
SPDES #NY0026280	Discharge of 5 gallons/minute = 7,200 g/d

3. LOCATION OF PROPOSED DISCHARGE

Warner Road sanitary sewer
Discharge = 7200 gallons/day
Discharge would commence upon approval.

4. Substance	NT Reg Limit (PPM)	4. Flow (MGD)	5. Prop. Max. Dis. Conc. (PPM) @ 5gpm	6. Pres. POTW Rem. % **	7. Prop. Addit. Loading Max lbs.	8. Pres. Perm. Loading Tot. lbs	9. Non Ind. Loading lbs.	10. Pres. Hdwks. Loading lbs.	11. Allow. Hdwks. Loading Max. lbs.	12. Proj. Hdwks. Loading Max. lbs	13. Proj. Effluent Loading Max. lbs
Acetone		0.0072	0.0019		0.000114					0.000	0.000
Benzene /3		0.0072	0.0110	0.74	0.000661	0.05		0.05	0.48	0.051	0.013
Chlorobenzene /2 /4		0.0072	0.0180	0.83	0.001081	1.00		1.00	3.65	1.002	0.170
1,1-Dichloroethane		0.0072	0.0029		0.000174			0.00	0.51	0.000	0.000
1,2-Dichloroethylene /4		0.0072	0.0035	0.76	0.000210					0.000	0.000
1,4-Dichlorobenzene /2 /4		0.0072	0.0081	0.80	0.000486	1.00		1.00	5.00	1.001	0.200
Ethylbenzene /3		0.0072	0.0052	0.68	0.000312	0.05		0.05	0.78	0.050	0.016
Methylene Chloride (Dichloromethane) /2 /4		0.0072	0.1200	-0.34	0.007206	1.00		1.00	3.43	1.008	1.351
4-Methyl-2-pentanone		0.0072	0.0051		0.000306					0.000	0.000
Styrene		0.0072	0.0050		0.000300					0.000	0.000
Naphthalene /3		0.0072	0.0010	0.91	0.000060	0.05		0.05	0.17	0.050	0.005
2-Methylphenol		0.0072	0.4200		0.025220					0.025	0.025
Bis (2-Ethylhexyl) Phthalate		0.0072	0.0002		0.000012			0.00	0.27	0.000	0.000
Dibenzofuran		0.0072	0.0033		0.000198					0.000	0.000
Tetrachloroethylene		0.0072	0.0016		0.000096	0.05		0.05	0.44	0.050	0.050
Toluene /2 /4		0.0072	0.0270	0.60	0.001621	1.00	0.38	1.38	1.53	1.383	0.553
Trichloroethylene /2 /4		0.0072	0.0043	0.33	0.000258			0.00	2.99	0.000	0.000

NYS New Discharge Form
for new or increased discharges
Niagara County Landfill

4. Substance	NT Reg Limit (PPM)	4. Flow (MGD)	5. Prop. Max. Dis. Conc. (PPM) @ 5gpm	6. Pres. POTW Rem. % **	7. Prop. Addit. Loading Max lbs.	8. Pres. Perm. Loading Tot. lbs.	9. Non Ind. Loading lbs.	10. Pres. Hdwks. Loading lbs.	11. Allow. Hdwks. Loading Max. lbs.	12. Proj. Hdwks. Loading Max. lbs.	13. Proj. Effluent Loading Max. lbs.
Aluminum	2.0	0.0072	21.0000		1.261008					1.261	1.261
Barium		0.0072	0.4100		0.024620					0.025	0.025
Arsenic /4	4.9	0.0072	0.0055	0.33	0.000330			0.00	0.32	0.000	0.000
Cadmium /4	0.3	0.0072	0.0011	0.26	0.000066	0.04		0.04	0.59	0.043	0.032
Cobalt		0.0072	0.0058		0.000348					0.000	0.000
Chromium /4	4.7	0.0072	0.0780	0.69	0.004684	4.31		4.31	2.45	4.319	1.339
Copper /4	3.9	0.0072	0.0600	0.79	0.003603	0.73	4.56	5.30	3.10	5.299	1.113
Cyanide /2 /4	5.0	0.0072	0.0190	0.47	0.001141	0.53		0.53	5.28	0.535	0.284
Lead /4	4.6	0.0072	0.0860	0.71	0.005164	0.13		0.13	15.70	0.134	0.039
Vanadium		0.0072	0.0400		0.002402					0.002	0.002
Mercury /3	0.0	0.0072	0.0007	0.79	0.000041	0.01		0.01	0.125	0.006	0.001
Nickel /2 /4	3.4	0.0072	0.1700	0.06	0.010208	0.47		0.47	3.51	0.482	0.453
Zinc /2 /4	14.0	0.0072	5.3000	0.52	0.318254	0.64	15.06	15.71	31.25	16.024	7.691
3&4-Methylphenol		0.0072	0.2600		0.015612					0.016	0.016
Phenols (4AAP) /2 /4	4.0	0.0072	16.0000	0.74	0.960768	4.90	2.75	7.65	28.85	8.611	2.239
2-Butanone		0.0072	0.1100		0.006605				2.17	0.007	0.007
Total Xylenes		0.0072	0.0200		0.001201				0.11	0.001	0.001
Calcium		0.0072	360.0000		21.617280				1.08	21.617	21.617
Iron	10.0	0.0072	120.0000		7.205760				0.11	7.206	7.206
Potassium		0.0072	170.0000		10.208160				1.08	10.208	10.208
Magnesium		0.0072	200.0000		12.009600				0.11	12.010	12.010
Manganese		0.0072	2.5000		0.150120				1.08	0.150	0.150
Sodium		0.0072	710.0000		42.634080				0.02	42.634	42.634
Calcium		0.0072	360.0000		21.617280					21.617	21.617
* If Substance not denoted by sub note /2, Allowable Mass is calculated using MDL in accordance with TOGs guidance @ 13 MGD.											
** Percent as decimal fraction.											
/1 Controlled by NYSDEC Bioaccumulative and Persistent Substances List.											
/2 Allowable Headworks Loading Mass taken from North Tonawanda Mass Allocation Manual.											
/3 Removal efficiency based on removals at the Niagara Falls WWTP											
/4 Removal efficiency based on removals at the North Tonawanda WWTP											

APPENDIX B

CORRESPONDENCE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

NOV 21 2005

BY FEDEX

Mr. Eric Felter
Project Manager
Parsons
180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221

Re: Niagara County Refuse Site, Wheatfield, New York; Request for the Reduction of Analytical Parameters in Groundwater Samples

Dear Mr. Felter:

The U.S. Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation (NYSDEC) have reviewed your letter dated October 3, 2005 prepared by Parsons on behalf of the Niagara County Refuse (NCR) Site PRP Group requesting a reduction in the analytical parameters in groundwater samples taken at the NCR site as part of the operation and maintenance program. The current analytical parameter list includes 2 volatiles, 4 semi-volatiles, and 16 metals which were determined to be constituents of interest at the site. Your proposal requests reducing the parameters to 5 metals, representing those constituents which have been measured above standards with some regularity in past sampling rounds. The sampling program, involving four monitoring wells, has been in effect since 2001 and your proposal reflects trends evident since the program was initiated. Sampling frequency is currently semi-annual (twice a year).

After discussing this matter with NYSDEC with input from the New York State Department of Health, our preference is that the sampling parameters remain the same for the time being. This is due to the significant residential growth around the site in recent years. After the current sampling round, samples are scheduled to be taken annually. EPA approves changing the current monitoring program only to the extent that the volatiles and semi-volatiles analysis can be conducted every two years while the metals analysis be conducted annually. EPA will, however, consider a further frequency reduction in the future as more data are collected.

Please call me at (212) 637-4278 if you have any questions on this matter.

Sincerely yours,

Michael J. Negrelli
Remedial Project Manager
New York Remediation Branch

cc: J. Konsella - NYSDEC/Region 9
B. Sadowski - NYSDEC/Region 9

APPENDIX C

WATER LEVEL RECORDS

WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 07/14/06 (MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"	1710	598.93	24.77	574.16
East "B"	1655	596.23	19.79	576.44
East "C"	1640	598.69	19.71	578.98
East "D"	1630	593.20	14.83	578.37
NCR-3S	1525	579.60	dry	
NCR-4S	1540	591.88	4.59	587.29
NCR-5S	1615	597.34	dry	
NCR-13S	1445	593.13	7.57	585.56

Wet Wells

		depth of water		
WWA	1430	~12"		
WWB	1550	~14"		
WWC	1510	~14"		
WWD	1455	~11"		

Total System Flow	Time of Measurement
31747885	~~1430~~
	1430

FORM 16

WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

DATE: 10|8|0|8|0|6 (MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"		598.93	24.23	574.73
East "B"		596.23	19.84	576.39
East "C"		598.69	19.66	579.03
East "D"		593.20	14.71	578.49
NCR-3S		579.60	5.85	573.75
NCR-4S		591.88	dry	
NCR-5S		597.34	dry	
NCR-13S		593.13	7.69	585.44

Wet Wells

		depth of water		
WWA		~13"		
WWB		~12"		
WWC		~12"		
WWD		~11"		

Total System Flow	Time of Measurement	
		Forgot to take reading

FORM 16

WATER LEVEL RECORD

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 09 / 18 / 06 (MM DD YY)

CREW MEMBERS: Richard C. Becken

Observation Well	Time of Measurement	Top of Casing Elevation A	Depth to Water B	Water Level Elevation A-B
		feet	feet	feet
East "A"		598.93	24.68	574.25
East "B"		596.23	19.51	576.72
East "C"		598.69	19.37	579.32
East "D"		593.20	14.45	578.75
NCR-3S		579.60	3.67	575.93
NCR-4S		591.88	3.51	588.37
NCR-5S		597.34	dry	
NCR-13S		593.13	6.36	586.77

Wet Wells

WWA	12:15	~14"		
WWB		~10"		
WWC		~10"		
WWD		~11"		

Total System Flow	Time of Measurement
32118495	12:15

FORM 16

APPENDIX D

MONTHLY INSPECTION LOGS

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 07/13/16 (MM DD YY)

INSPECTOR(S): R C Becker

	Item	*Inspect For*	*Action Required*	*Comments*
1.	**Perimeter Collection System/Off-Site Forcemain**			
☐	Manholes	- cover on securely	OK	
☐		- condition of cover	OK	
☐		- condition of inside of manhole	OK	
☐		- flow conditions	no flow	
☐	Wet Wells	- cover on securely	OK	
☐		- condition of cover	OK	
☐		- condition of inside of wet well	OK	
2.	**Landfill Cap**			
☐	Vegetated Soil Cover	- erosion	NONE	
☐		- bare areas	None	
☐		- washouts	NONE	
☐		- leachate seeps	NONE	
☐		- length of vegetation	tall	
☐		- dead/dying vegetation	none	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 01/17/96 (MM DD YY)

INSPECTOR(S): RC Becker

	Item	*Inspect For*	*Action Required*	*Comments*
2.	**Landfill Cap (continued)**			
☐	Access Roads	- bare areas, dead/dying veg.	NONE	
☐		- erosion	NONE	
☐		- potholes or puddles	NONE	
☐		- obstruction	NONE	
3.	**Wetlands (Area "F")**	- dead/dying vegetation	NONE	
		- change in water budget	slightly low	
		- general condition of wetlands	good	
4.	**Other Site Systems**			
☐	Perimeter Fence	- integrity of fence	OK	
☐		- integrity of gates	OK	
☐		- integrity of locks	OK	
☐		- placement and condition of signs	OK	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 07/14/06 (MM DD YY)

INSPECTOR(S): RC Becker

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
	Drainage Ditches/ Swale Outlets	- sediment build-up	None	
		- erosion	None	
		- condition of erosion protection	good	
		- flow obstructions	NONE	
		- dead/dying vegetation	NONE	
		- cable concrete/gabion mats and riprap	good	
	Culverts	- sediment build-up	NONE	
		- erosion	NONE	
		- condition of erosion protection	Good	
		- flow obstructions	NONE	
	Gas Vents	- intact /damage	good condition	
	Wells	- locks secure	good condition	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 08 08 06 (MM DD YY)

INSPECTOR(S): RC Becker

Item	Inspect For	Action Required	Comments
1. Perimeter Collection System/Off-Site Forcemain			
☐ Manholes	- cover on securely	OK	
☐	- condition of cover	ok	
☐	- condition of inside of manhole	OK	
☐	- flow conditions	no flow	
☐ Wet Wells	- cover on securely	OK	
☐	- condition of cover	ok	
☐	- condition of inside of wet well	ok	
2. Landfill Cap			
☐ Vegetated Soil Cover	- erosion	none	
☐	- bare areas	none	
☐	- washouts	none	
☐	- leachate seeps	none	
☐	- length of vegetation	high	
☐	- dead/dying vegetation	none	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 10/8/98/01/6 (MM DD YY)

INSPECTOR(S): R C Beeler

Item	*Inspect For*	*Action Required*	*Comments*
2. Landfill Cap (continued)			
☐ Access Roads	- bare areas, dead/dying veg.	none	
☐	- erosion	none	
☐	- potholes or puddles	none	
☐	- obstruction	none	
3. Wetlands (Area "F")	- dead/dying vegetation	none	
	- change in water budget	normal water depth	
	- general condition of wetlands	good	
4. Other Site Systems			
☐ Perimeter Fence	- integrity of fence	good	
☐	- integrity of gates	good	one man gate broken into repaired immediately
☐	- integrity of locks	good	
☐	- placement and condition of signs	good	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 08/08/96 (MM DD YY)

INSPECTOR(S): R C Baker

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
☐	Drainage Ditches/ Swale Outlets	- sediment build-up	none	
☐		- erosion	none	
☐		- condition of erosion protection	good	
☐		- flow obstructions	none	
☐		- dead/dying vegetation	none	
☐		- cable concrete/gabion mats and riprap	good condition	
☐	Culverts	- sediment build-up	none	
☐		- erosion	none	
☐		- condition of erosion protection	good	
☐		- flow obstructions	none	
☐	Gas Vents	- intact /damage	intact	
☐	Wells	- locks secure	good	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 10/11/16 (MM DD YY)

INSPECTOR(S): R C Becker

Item	Inspect For	Action Required	Comments
1. Perimeter Collection System/Off-Site Forcemain			
☐	Manholes - cover on securely	yes	
☐	- condition of cover	good	
☐	- condition of inside of manhole	good	
☐	- flow conditions	good	
☐	Wet Wells - cover on securely	yes	
☐	- condition of cover	good	
☐	- condition of inside of wet well	good	
2. Landfill Cap			
☐	Vegetated Soil Cover - erosion	none	
☐	- bare areas	none	
☐	- washouts	none	
☐	- leachate seeps	none	
☐	- length of vegetation	just mowed	
☐	- dead/dying vegetation	none	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 6/9/16 (MM DD YY)

INSPECTOR(S): RC Rocker

	Item	*Inspect For*	*Action Required*	*Comments*
2.	**Landfill Cap (continued)**			
☐	Access Roads	- bare areas, dead/dying veg.	none	
☐		- erosion	none	
☐		- potholes or puddles	none	
☐		- obstruction	none	
3.	**Wetlands (Area "F")**	- dead/dying vegetation	no	
		- change in water budget	water high	
		- general condition of wetlands	good	
4.	**Other Site Systems**			
☐	Perimeter Fence	- integrity of fence	hole cut in fence	
☐		- integrity of gates	good	
☐		- integrity of locks	good	
☐		- placement and condition of signs	one sign damaged	

FORM 1

MONTHLY INSPECTION LOG

PROJECT NAME: Niagara County Refuse Site

LOCATION: Wheatfield, New York

DATE: 07/18/05 (MM DD YY)

INSPECTOR(S): RC Bucher

	Item	*Inspect For*	*Action Required*	*Comments*
4.	**Other Site Systems (continued)**			
☐	Drainage Ditches/ Swale Outlets	- sediment build-up	none	
☐		- erosion	none	
☐		- condition of erosion protection	good	
☐		- flow obstructions	none	
☐		- dead/dying vegetation	none	
☐		- cable concrete/gabion mats and riprap	good	
☐	Culverts	- sediment build-up	none	
☐		- erosion	none	
☐		- condition of erosion protection	good	
☐		- flow obstructions	none	
☐	Gas Vents	- intact /damage	good condition	
☐	Wells	- locks secure	yes	

FORM 1

APPENDIX E

MAINTENANCE RECORD LOGS

MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site **LOCATION:** Wheatfield, New York

CREW MEMBERS: RC Becker

1. **Date:** 0|8|0|8|0|6 (MM DD YY)

   Time: 0|9|0|9 (HH mm)

   Scheduled/Unscheduled: scheduled

   Type of Maintenance Performed: mow grass ~~fence~~ fence line perimeter

2. **Company Performing Maintenance**

   Name: O+M Enterprises

   Address:

   Contact Name: Richard C Becker

3. **Methods Used:**

   tractor and mower

   Description of Material Removed:

   none

   Problems/Comments:

   none

8/8/06 Richard C Becker Richard C Becker

DATE INSPECTOR INSPECTOR'S SIGNATURE

FORM 2

MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site **LOCATION:** Wheatfield, New York

CREW MEMBERS: RC Becker

1. **Date:** 0|8|0|8|0|6 (MM DD YY)

   Time: 1|1|3|0 (HH mm)

   Scheduled/Unscheduled: unscheduled

   Type of Maintenance Performed: repair gate

2. **Company Performing Maintenance**

   Name: O+M Enterprises

   Address:

   Contact Name: Richard Becker

3. **Methods Used:**

straighten gate locking device

Description of Material Removed:

none

Problems/Comments:

none

8/8/06 — DATE

RC Becker — INSPECTOR

INSPECTOR'S SIGNATURE

FORM 2

MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site **LOCATION:** Wheatfield, New York

CREW MEMBERS: RC Becker

1. **Date:** 08/24/06 (MM DD YY)

   Time: 0930 (HH mm)

   Scheduled/Unscheduled: Scheduled

   Type of Maintenance Performed: pull clean + check pumps

2. **Company Performing Maintenance**

   Name: O+M Enterprises

   Address: 7134 Marigold Dr.
   North Tonawanda, NY 14120

   Contact Name: Richard Becker

3. **Methods Used:**

   pulled pumps
   pressure washed pump
   checked pumps
   reinstalled pumps

Description of Material Removed:

none

Problems/Comments:

none

8/24/06 RC Becker Richard C Becker

DATE INSPECTOR INSPECTOR'S SIGNATURE

FORM 2

MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

CREW MEMBERS: M. Becker

1. Date: 09/01/06 (MM DD YY)

Time: 0900 (HH mm)

Scheduled/Unscheduled: Scheduled

Type of Maintenance Performed: Grass Mowing

2. Company Performing Maintenance

Name: O+M Enterprises Inc.

Address: 7154 Marigold Dr.
North Tonawanda, NY 14120

Contact Name: Rick Becker

3. Methods Used:

Mowed Grass

Description of Material Removed:

none

Problems/Comments:

None

9/1/06 Richard C Becker
DATE INSPECTOR INSPECTOR'S SIGNATURE

FORM 2

MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site **LOCATION:** Wheatfield, New York

CREW MEMBERS: RC Becker

1. **Date:** 0 9 1 8 0 6 (MM DD YY)

   Time: 1 4 3 0 (HH mm)

   Scheduled/Unscheduled: unscheduled

   Type of Maintenance Performed: fence repair replace sign

2. **Company Performing Maintenance**

   Name: O+M Enterprises INC.

   Address: 7134 Marigold Dr.
   North Tonawanda, NY 14120

   Contact Name: Richard Becker

3. **Methods Used:**

   repapr hole cut in fence
   replace damaged sign with new sign

Description of Material Removed:

none

Problems/Comments:

none

9/18/06 Richard C Becker [signature]
DATE INSPECTOR INSPECTOR'S SIGNATURE

FORM 2

MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

CREW MEMBERS: RC Becker

1. Date: 09/07/06 (MM DD YY)

Time: 0900 (HH mm)

Scheduled/Unscheduled: Scheduled

Type of Maintenance Performed: Mowed Grass

2. Company Performing Maintenance

Name: O+M Ent.

Address: 7134 Marigold Dr.
North Tonawanda, NY

Contact Name: Rick Becker

3. Methods Used:

Mowed Grass

Description of Material Removed:

none

Problems/Comments:

none

9/7/06 Richard C Becker

DATE INSPECTOR INSPECTOR'S SIGNATURE

FORM 2

CRA 5723 (17)

MAINTENANCE RECORD LOG

PROJECT NAME: Niagara County Refuse Site LOCATION: Wheatfield, New York

CREW MEMBERS: R C Becker

1. Date: 09/08/06 (MM DD YY)

Time: 0900 (HH mm)

Scheduled/Unscheduled: Scheduled

Type of Maintenance Performed: Mowed Grass

2. Company Performing Maintenance

Name: O&M Ent

Address: 7134 Marigold Dr
North Tonawanda, NY

Contact Name: Rick Becker

3. Methods Used:

Mowed Grass

Description of Material Removed:

none

Problems/Comments:

none

9/8/06 Richard C Becker
DATE INSPECTOR INSPECTOR'S SIGNATURE

FORM 2

CRA 5723 (17)

APPENDIX F

COMPACT DISK CONTAINING REPORT