SEMI ANNUAL REPORT
OPERATION AND MAINTENANCE
JANUARY 2006 TO JUNE 2006
PFOHL BROTHERS LANDFILL
CHEEKTOWAGA, NY

Submitted to:

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OCTOBER 2006

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1.0 INTRODUCTION

1.1 Background

The Pfohl Brothers Landfill is located on Aero Drive in the Town of Cheektowaga, New York (Figure 1-1). The site is listed as site No. 9-15-043 on the New York State Department of Environmental Conservation's (NYSDEC's) Registry of Inactive Hazardous Waste Disposal Sites. A Consent Order between NYSDEC and potentially responsible parties (PRPs) for closure of the site was signed in 2001 and remedial construction commenced in 2001. The remedy included consolidation of waste material, capping of the waste disposal and consolidation areas, and encircling the landfill areas with a groundwater collection system to prevent off-site migration. The remedial action was completed in 2002.

Responsibility for implementing the remedy was divided between a "steering committee" of industrial PRPs and the Town of Cheektowaga. The steering committee responsibilities lay generally with the capital construction activities of the remedy including waste consolidation, cap and drainage system installation, etc. The Town of Cheektowaga, which was named as a PRP for disposal of municipal waste at the Pfohl Brothers Landfill when it was operating, is performing the operation and maintenance (O&M) activities at the landfill, pursuant to a settlement agreement between the Town and the steering committee.

1.2 Operation and Maintenance Activities

While construction of the remedy was substantially complete by late 2002, the final O&M manual was not approved by the NYSDEC until March 10, 2006. However, the Town and its consultant (URS Corporation) assumed most of the operational responsibilities since 2002. This includes a variety of general maintenance activities as outlined in Section 2 and sampling and other monitoring activities outlined in Section 3.

Beginning in 2004, the Town and URS assumed all of the O&M activities described in the O&M plan. This report is the fifth semi-annual report as called for by Section 3.6 of the O&M plan.

2.0 GENERAL MAINTENANCE ACTIVITIES

Since completion of construction activities in 2002, personnel from the Town of Cheektowaga Engineering Department have performed general activities to ensure the physical operation of the landfill as intended by the design. The various O&M activities performed by the Town from January 2006 through June 2006 include the following actions.

- The amount of groundwater discharged through the collection system was recorded on a daily basis. The flow rate displayed by each wet well pump at the time of daily inspection and the total cumulative volume of flow was recorded for each wet well on daily inspection sheets. An example of a daily inspection sheet is attached in Appendix A.

- Total cumulative effluent flow rates and volumes were summarized on a monthly basis starting in February 2003. The monthly totals for the period of January 2006 through June 2006, including graphs showing daily total discharge (gallons) as a function of calendar day, are presented in Appendix B. The Totalizer readings were reset on June 30, 2006 to zero, to coincide with the Buffalo Sewer Authority (BSA) fiscal year for cost allocation purposes.

- The wet well pumps were shutdown during wet weather flow conditions throughout the year to reduce hydraulic loading to the sewer.

- Plowed snow to access the Control Building when necessary.

- The heat trace controller module was replaced and reprogrammed in January 2006.

- Re-bid mowing contract for landfill and awarded contract to Niagara Grass.

- A dead deer was removed from the landfill on January 23, 2006.

- Three 1.5 horsepower (H.P.) pumps were purchased for the replacement inventory in March 2006.

- The pump, flexible discharge hose and check valve was replaced on WW4 on March 8, 2006.

- A 200-amp C phase fuse was replaces at the main power disconnect in March 2006.

- A short circuit was discovered in the underground (UG) power cable between the Control Building and WW4 (March 2006). Furguson Electric determined that the UG power cable from MW-17 to WW-4 and MH-18 to WW5 needed to be replaced (May 2006). Furguson Electric installed replacement UG power cable from MW-17 to WW-4 and MH-18 to WW5 (June 2006)

- Trapped and removed 15 woodchucks from the landfill in May 2006.

- Ordered signs and purchased stakes to delineate the extent of the wetland area located at the northern portion of the site.

- Replaced the pump in WW4 in June 2006. The pump installed in WW4 on March 8, 2006 was damaged by the UG power cable, which was also replaced in June 2006 (see above).

- Performed repairs as needed throughout the first part of 2006 (January 2006 to June 2006) to level control instrumentation, surge suppressor equipment and electrical components, with the assistance of Conestoga-Rovers and Associates (CRA).

A review of the total cumulative effluent flow rates and volumes presented in Appendix B indicates that discharge did not occur on numerous days between January and June 2006. The lack of discharge was attributed to level sensor instrumentation failures, which required operating the pumps in manual mode.

3.0 MONITORING ACTIVITIES

The Town retained URS Corporation to perform monitoring activities as outlined in Section 3.1 of the O&M plan. During the period of January 2004 through the present, URS performed groundwater hydraulic monitoring (Section 3.1.1.2 of the O&M plan) and effluent monitoring (Section 3.1.4 of the O&M plan) on a quarterly basis. URS also performed a third annual surface water and sediment monitoring events (Section 3.1.2 of the O&M plan) and the fifth semi-annual groundwater quality monitoring event (Section 3.1.1.3 of the O&M plan). A summary of the monitoring activities is presented in the following subsections. Hydraulic and groundwater sampling locations are shown on Figure 3-1. Surface water/sediment sample locations are shown on Figure 3-2.

3.1 Groundwater Hydraulic Monitoring

Groundwater and surface water elevations were monitored on a quarterly basis at all locations listed in Table 3.1 of the O&M Plan. The hydraulic monitoring data tables and figures showing groundwater elevations are presented in Appendix C. Tables 1 and 2 of this appendix list the measured elevations. Table 3 provides a comparison of the measured levels in the wells and corresponding manholes/wet wells. For the wet wells, where water elevations vary with pump activity, the set point elevation of the pump switch is also presented.

The data presented in Appendix C indicates that groundwater levels outside the collection system were higher than the levels measured in the corresponding wet well or manhole for each measurement date. This data verifies that collection system is operating as designed.

3.2 Groundwater Quality Monitoring

The fifth semi-annual round of groundwater sampling was conducted during May 15, 2006 to May 19, 2006. All wells listed in Table 3.2 of the O&M plan were purged and sampled using dedicated equipment. In addition, monitoring well GW-06D, an upgradient-offsite well that has not

been sampled during previous O&M activities, was sampled pursuant to a request from the United States Environmental Protection Agency (USEPA). Figure 3-1 shows the well locations. During this sampling event, low flow sampling techniques were used on wells that historically have been purged to dryness. Purge logs and sampling summary sheets are provided in Appendix D. Field instrument malfunctions over the course of the sampling event prevented the collection of complete sets of field parameters at all well locations. Measurements of pH, specific conductivity, temperature, and turbidity taken during purging are provided in Appendix D. The samples were packed with ice in coolers and transported under chain-of-custody control to Severn Trent Laboratories, Inc. of Amherst, New York (STL-Buffalo).

Groundwater samples were analyzed for the parameters listed in Table 3.2 of the O&M plan. Specifically, the following parameter classes were analyzed for: volatile organic compounds (VOCS), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), Metals, Dioxins & Furans, Cyanide and Radiochemistry by Gamma Spectroscopy. Table 3-1 of this report presents a summary of detected parameters.

No VOCs were detected above the Class GA water quality standards.

Seven SVOCs [Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluorathene, Benzo(k) fluorathene, Chrysene, Fluoranthene and Indeno(1,2,3-cd)pyrene] were estimated at concentrations exceeding their respective Class GA water quality standard. All the SVOCs exceeding Class GA water quality standards were detected only in upgradient-offsite well GW-06D.

No PCBs or Cyanide were detected above the Class GA water quality standards.

One Dioxin (2,3,7,8-TCDD) was detected at concentrations of 2.60E-03 and 4.40E-03 nanograms per Liter (ng/L) in GW-08D and GW-31S respectively, which is above its Class GA water quality standard of 7.00E-04 ng/L.

No Radionuclides were detected in any groundwater samples. It is noted however, that the sample from GW-03D radionuclide analyses leaked in transit and was not analyzed.

Among the metals, iron, magnesium, manganese, and sodium routinely exceed Class GA standards in most site wells. Sodium concentrations were higher in bedrock wells (GW-3D, GW-8D and GW-26D) and shallow wells adjacent to roads (GW-1S, GW-8SR and GW-30S). The higher sodium concentrations in the bedrock wells may be attributed to the local bedrock composition and the elevated concentration in the shallow wells may be the result of seasonal road de-icing activities. The concentration of iron, magnesium, manganese, and sodium in most site wells was similar to the concentrations found during previous sampling events. Arsenic slightly exceeded its standard of 0.025 mg/L at GW-29S with a concentration of 0.026 mg/L. Cadmium slightly exceeded its standard of 0.005 milligrams per liter (mg/L) at GW-31S with a concentration of 0.0051 mg/L. Chromium exceeded its standard of 0.05 mg/L in six wells (GW-03S, GW-04S, GW-06D, GW-07D, GW-08D and GW-31S. The chromium detections are biased high due to greater than QC limit (>125%) recovery from the matrix spike (MS) and matrix spike duplicate (MSD). Lead exceeded its standard of 0.025 mg/L at GW-07D and GW-31S with concentrations of 0.56 and 0.037 mg/L respectively. Lead has exceeded its standard at background (upgradient) well GW-07D four of the five sampling events and may be attributed to natural conditions. Nickel slightly exceeded its standard of 0.10 mg/L at GW-31S with a concentration of 0.20 mg/L.

GW-06D was analyzed for the first time during this sampling round at the request of the USEPA as part of their five-year review of the site remedy. This upgradient well was analyzed to evaluate whether various metals detected onsite in bedrock wells were naturally occurring. Most of the metals detected in onsite bedrock wells were also detected in GW-06D at comparable levels, although iron and manganese levels were lower in GW-06D.

Appendix E contains a historical summary of detected groundwater analytical results (Table 1). A review of the historical data indicated that no significant changes or trends in concentrations of any of the parameters exceeding groundwater standards have occurred over the five semi-annual

sampling events. Graphs for individual parameters demonstrating distinct patterns have been included in Appendix E.

The groundwater analytical data package was prepared by STL-Buffalo in accordance with NYSDEC Category A deliverable requirements. It was reviewed for compliance with analytical method requirements and the following guidelines: United States Environmental Protection Agency (USEPA) *Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review,* EPA-540-R-99-008, October 1999; USEPA *CLP National Functional Guidelines for Inorganic Data Review,* EPA-540-R-01-008, July 2002; USEPA *Region II Data Validation SOP for SW-846 Method 8290, PCDDs and PCDFs by High Resolution Gas Chromatography/High-Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994; and Science Applications International Corporation (SAIC), *Laboratory Data Validation Guidelines for Evaluating Radionuclide Analyses*, Document No. 143.20020404.001, Revision 07, 04 April 2002. Qualifiers applied to the data include "R" (rejected), "J/UJ" (estimated concentration/ estimated quantitation limit), "J+" (estimated concentration with possible high bias), "J-" (estimated concentration with possible low bias), and "U" (not detected).

A Data Usability Summary Report (DUSR) was prepared following the guidelines provided in NYSDEC Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. The DUSR was submitted separately from this report.

3.3 Groundwater Discharge Monitoring

URS completed two quarterly sampling events (March 2006 and June 2006) of the groundwater collection system discharge since the previous semi-annual report. The sampling was performed in accordance with the requirements of Discharge Permit No. 05-12-CH016 between the Buffalo Sewer Authority and the Town of Cheektowaga. A copy of Permit No. 05-12-CH016 is included as Appendix F.

During all sampling events, each regulated parameter was below the limits set by the permit. Copies of the data summary tables that were included with the monitoring reports are included as Appendix G.

3.4 Surface Water/ Sediment Sampling

A third round of the annual surface water and sediment sampling was conducted on May 15, 2006. Eight-paired surface water and sediment locations listed in the O&M plan (Table 3.3) and shown on Figure 3-2 were sampled. At each location the surface water sample was collected prior to the sediment sample by immersing pre-cleaned, laboratory grade sample bottles into the middle of the water body. Sampling summary sheets are provided in Appendix H. Each sediment sample was collected from the same location as its corresponding surface water sample. Descriptions of the sediment samples were also recorded on the sample summary sheets (Appendix H). The water and sediment samples were packed with ice in coolers and transported under chain-of-custody control to STL-Buffalo.

All surface water samples were analyzed for parameters listed in the O&M plan (Table 3.3). Table 3-2 presents a summary of detected parameters and provides comparison with

Class B water quality standards. While the water bodies that surround the Pfohl Landfill are not designated in 6 NYCRR Part 825, these waters are within the Ellicott Creek drainage basin and are considered tributaries to the creek, which is designated as Class B in 6 NYCRR Part 825. Therefore, the water quality classification for Ellicott Creek is adopted in this semi-annual report to facilitate comparison and evaluation of the analytical results. As shown in Table 3-2, aluminum and iron exceeded the Class B standards at several sample locations. Appendix E contains a historical summary of detected surface water analytical results (Table 2). A review of the historical data indicated that no significant changes or trends in concentrations of any of the parameters exceeding surface standards have occurred over the three annual sampling events.

The sediment samples were analyzed for the parameters listed in the O&M plan (Table 3.3). Table 3-3 of this report presents a summary of all detected parameters. Appendix E contains a historical summary of detected sediment analytical results (Table 3). A review of the historical data indicated that no significant changes or trends in concentrations of any of the parameters detected have occurred over the three annual sampling events.

The sediment and surface water analytical data package was prepared by STL-Buffalo in accordance with NYSDEC Category A deliverable requirements. It was reviewed for compliance with analytical method requirements and the following guidelines: United States Environmental Protection Agency (USEPA) *Contract Laboratory Program (CLP) National Functional Guidelines for Organic Data Review,* EPA-540-R-99-008, October 1999; USEPA *CLP National Functional Guidelines for Inorganic Data Review,* EPA-540-R-01-008, July 2002; USEPA *Region II Data Validation SOP for SW-846 Method 8290, PCDDs and PCDFs by High Resolution Gas Chromatography/High-Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994; and Science Applications International Corporation (SAIC), *Laboratory Data Validation Guidelines for Evaluating Radionuclide Analyses*, Document No. 143.20020404.001, Revision 07, 04 April 2002. Qualifiers applied to the data include "R" (rejected), "J/UJ" (estimated concentration/ estimated quantitation limit), "J+" (estimated concentration with possible high bias), "J-" (estimated concentration with possible low bias), and "U" (not detected).

A Data Usability Summary Report (DUSR) was prepared following the guidelines provided in NYSDEC Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. The DUSR was submitted separately from this report.

3.5 Wetland Inspection Summary

The Town contracted Southern Tier Nursery to replant wetlands nursery stock in September 2005. A snow fence was erected to protect the new stock from damage by migratory birds while it developed. An inspection of the wetland in May 2006 indicted that most of the replanted stock has flourished and the wetland areas are returning to their natural state. Surface water elevations were

monitored on a quarterly basis at all locations listed in Table 3.1 of the O&M Plan. The surface water elevations for the wetlands are on the following table.

Location ID	Water Elevation (ft amsl) 3/29/2006	Water Elevation (ft amsl) 5/10/2006
SG-01	692.70	691.54
SG-02	NA	NA
SG-04	NM	691.75

Notes:

NM=not measured, NA= staff gauge not surveyed, elevation is not available.

3.6 Monitoring Well Inspections

During the May 2006 groundwater sampling event, a well inspection was performed. The well inspection indicated the following: a total of six wells required an expandable well plug; five wells required new locks; two wells required new concrete well pads; two wells required new protective casings; and one well required a new lid on its' protective casing. All well repairs were made and are indicated on the respective monitoring well inspection logs. The monitoring well inspection logs may be found in Appendix I.

4.0 SUMMARY AND RECOMMENDATIONS

General Maintenance: The Town will continue to maintain mechanical equipment at the landfill on an as-needed basis and operate the groundwater collection and discharge system as designed. The Town will also continue regular inspections, mow the cap once per year, and plow access to the control building during winter months as necessary.

A monitoring well inspection during the May 2006 groundwater sampling event indicated that some well repairs were needed. The repairs were made, which included replacement of six

expandable well plugs; replacement of five locks; replacement of two concrete well pads; replacement of two protective casings; and the replacement of one lid on a protective casing.

Groundwater Hydraulic Monitoring: Hydraulic monitoring has been performed on a quarterly basis in conjunction with the discharge monitoring. Water level measurement data demonstrates that the hydraulic gradient is from outside the landfill towards the collection trench. Continued quarterly monitoring is recommended.

Groundwater Quality Monitoring: Groundwater sample results indicate that only low levels of contamination are present. Similar concentrations of most contaminants were found during previous sampling events. Based on results of the five semi-annual sampling events, the analytical parameter list in Table 3.2 of the O&M plan may be revised pending consultation with the NYSDEC. The sixth round of groundwater sampling will be conducted during October of 2006. Low flow sampling techniques will continue to be used on wells that historically have been purged to dryness. A review of the purge logs (Appendix D) has indicated that three wells (GW-04D, GW-07S, and GW-07D) can still be purged to dryness even using low flow sampling techniques. The use of passive diffusion bags may be utilized in these wells during the Fall 2006 (October 2006) sampling event. A new dedicated pump will be purchased to replace the broken pump for GW-03D.

Pursuant to Section 3.1.1.3 of the O&M plan, the Site Specific Parameter List (SSPL) for groundwater monitoring at the Pfohl Brothers Landfill site may be revised after two rounds of semi-annual groundwater monitoring. Such a request was originally made in 2005, but was rejected by NYSDEC because the final Operation and Monitoring Plan had not yet been issued. However, since that time, the plan has been approved by NYSDEC.

Based on the data collected over the first five sampling events, it is recommended that subsequent groundwater samples be analyzed for the parameters presented on Table 3.4. This list comprises the set of all analytes detected near or above groundwater standards in the four rounds of sampling, plus dioxin (the O&M plan allows elimination of dioxin analysis only after the third year of monitoring). Compared to the current parameter list presented in the O&M Plan, the revised table eliminates the PCB analysis and presents a reduced list of VOCs, SVOCs, and metals. Dioxins and

Furans have not been detected in groundwater samples above criteria except in the latest sampling where 2,3,7,8-TCDD was detected in two wells at less than 3.7×10^{-6} µg/L over its standard of 0.7×10^{-6} µg/L. Pending results of the October 2006 sampling, TCDD and TCDF analyses may also be requested to be removed from the SSPL.

Groundwater Discharge Monitoring: Groundwater discharges remain within permit limits. Continued quarterly monitoring is recommended.

Surface Water and Sediment Sampling: The third scheduled surface water and sediment sampling events has been completed. The results of the three sampling events will be compared to pre-Remedial Action sample to determine if post-Remedial Action activities have somehow impacted the quality of the surface water and sediments. If it is determined that no impacts have occurred between pre- Remedial Action activities and post- Remedial Action activities, the O&M plan indicates the termination of this sampling program. The NYSDEC will be consulted prior any termination of the sampling program.

Wetland Inspection Summary: An inspection of the wetlands during the May 2006 event indicated that most of the replanted wetland stock has flourished and the wetland areas are returning to their natural state.

TABLES

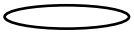
TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-01D	GW-01S	GW-03D	GW-03S	GW-04D
Sample ID				GW-01D	GW-01S	GW-03D	GW-03S	GW-04D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	05/18/06	05/17/06	05/17/06	05/17/06
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,2-Dichloroethene (total)	UG/L	5	-			1.3 J		
Acetone	UG/L	50	-					
Chlorobenzene	UG/L	5	-			0.77 J		
Vinyl chloride	UG/L	2	-			0.87 J		
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-			2 J		
1,4-Dichlorobenzene	UG/L	3	-			3 J		
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					
Benzo(k)fluoranthene	UG/L	0.002	-					
Chrysene	UG/L	0.002	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)

Concentration Exceeds (2)

J - The analyte was positively identified, the quantitation is an estimation.
J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.
J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
Blank - not detected. - = No criteria.

Only Detected Results Reported.

TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-01D	GW-01S	GW-03D	GW-03S	GW-04D
Sample ID				GW-01D	GW-01S	GW-03D	GW-03S	GW-04D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	05/18/06	05/17/06	05/17/06	05/17/06
Parameter	**Units**	**(1)**	**(2)**					
Dioxins/Furans								
2,3,7,8-TCDF	NG/L	0.007	-					
Metals								
Aluminum	MG/L	-	-				0.68	0.68
Arsenic	MG/L	0.025	-					
Barium	MG/L	1	-	0.055	0.33	0.13	0.21	0.057
Cadmium	MG/L	0.005	-				1.10E-03	
Calcium	MG/L	-	-	117	238	150	119	123
Chromium	MG/L	0.05	-	0.048 J+	0.016 J+	0.020 J+	1.2 J+	0.014 J+
Cobalt	MG/L	-	-				4.30E-03	
Copper	MG/L	0.2	-	0.022			0.017	
Iron	MG/L	0.3	-	10.8	52.7	3.4	6.0	2.1
Lead	MG/L	0.025	-				5.30E-03	
Magnesium	MG/L	35	-	40.5	40.9	23.8	78.6	56.6
Manganese	MG/L	0.3	-	0.088	0.96	1.1	0.37	0.038
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.012	0.012		0.099	0.023
Potassium	MG/L	-	-	2.7	2.7	4.5	2.7	3.2
Sodium	MG/L	20	-	69.1	385	259	43.1	53.2
Vanadium	MG/L	-	-				5.80E-03	
Zinc	MG/L	2	-	0.015	0.022	0.014	0.097	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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Only Detected Results Reported.

TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-04S	GW-06D	GW-07D	GW-07S	GW-08D
Sample ID				GW-04S	GW-06D	GW-07D	GW-07S	GW-08D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	05/19/06	05/18/06	05/17/06	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,2-Dichloroethene (total)	UG/L	5	-					3.1
Acetone	UG/L	50	-			12		
Chlorobenzene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					1.3
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-		12 J			
Benzo(a)anthracene	UG/L	0.002	-		20 J			
Benzo(a)pyrene	UG/L	ND	-		17 J			
Benzo(b)fluoranthene	UG/L	0.002	-		23 J			
Benzo(g,h,i)perylene	UG/L	-	-		11 J			
Benzo(k)fluoranthene	UG/L	0.002	-		7 J			
Chrysene	UG/L	0.002	-		17 J			
Fluoranthene	UG/L	50	-		52 J			
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-		10 J			
Phenanthrene	UG/L	50	-		35 J			
Pyrene	UG/L	50	-		40 J			
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					2.60E-03 J

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-04S	GW-06D	GW-07D	GW-07S	GW-08D
Sample ID				GW-04S	GW-06D	GW-07D	GW-07S	GW-08D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	05/19/06	05/18/06	05/17/06	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Dioxins/Furans								
2,3,7,8-TCDF	NG/L	0.007	-					
Metals								
Aluminum	MG/L	-	-	2.3		2.2	0.80	0.32
Arsenic	MG/L	0.025	-	0.014				0.013
Barium	MG/L	1	-	0.18	0.11	0.13	0.19	0.20
Cadmium	MG/L	0.005	-	2.60E-03		1.40E-03		
Calcium	MG/L	-	-	51.5	143	89.5	36.2	146
Chromium	MG/L	0.05	-	0.26 J+	0.14 J+	0.061 J+	0.011 J+	0.24 J+
Cobalt	MG/L	-	-	6.10E-03				4.30E-03
Copper	MG/L	0.2	-	0.021		0.062		
Iron	MG/L	0.3	-	12.1	0.54	12.4	0.78	12.7
Lead	MG/L	0.025	-	5.40E-03		0.56		
Magnesium	MG/L	35	-	28.5	34.1	31.0	26.6	32.4
Manganese	MG/L	0.3	-	0.48	0.035	0.16	0.13	1.5
Mercury	MG/L	7.00E-04	-	2.20E-04				
Nickel	MG/L	0.1	-	0.086		0.055	0.053	0.054
Potassium	MG/L	-	-	5.2	2.9	9.0	2.6	4.8
Sodium	MG/L	20	-	36.4	200	91.0	54.0	320
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-	0.39	0.020	0.27	0.016	0.13

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

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Blank - not detected. - = No criteria.

Only Detected Results Reported.

TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-08SR	GW-26D	GW-26D	GW-28S	GW-29S
Sample ID				GW-08SR	GW-26D	GW-27D-DUP	GW-28S	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	05/18/06	05/18/06	05/18/06	05/16/06
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,2-Dichloroethene (total)	UG/L	5	-		2.2	2.3		
Acetone	UG/L	50	-			2.9 J	4.1 J	2.8 J
Chlorobenzene	UG/L	5	-					
Vinyl chloride	UG/L	2	-		1.8	1.8		
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					
Benzo(k)fluoranthene	UG/L	0.002	-					
Chrysene	UG/L	0.002	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

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Concentration Exceeds (2)

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TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-08SR	GW-26D	GW-26D	GW-28S	GW-29S
Sample ID				GW-08SR	GW-26D	GW-27D-DUP	GW-28S	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	05/18/06	05/18/06	05/18/06	05/16/06
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Dioxins/Furans								
2,3,7,8-TCDF	NG/L	0.007	-					
Metals								
Aluminum	MG/L	-	-	2.1			1.7	4.4
Arsenic	MG/L	0.025	-		0.018	0.022		0.026
Barium	MG/L	1	-	0.36	0.13	0.13	0.061	0.23
Cadmium	MG/L	0.005	-	1.10E-03			1.40E-03	1.70E-03
Calcium	MG/L	-	-	119	124	128	156	104
Chromium	MG/L	0.05	-	0.020 J+	0.012 J+	0.016 J+	0.022 J+	0.033 J+
Cobalt	MG/L	-	-	5.70E-03			4.50E-03	
Copper	MG/L	0.2	-					
Iron	MG/L	0.3	-	16.1	15.0	17.5	3.6	13.1
Lead	MG/L	0.025	-					5.80E-03
Magnesium	MG/L	35	-	37.6	21.0	21.6	51.9	62.6
Manganese	MG/L	0.3	-	0.74	1.2	1.3	1.4	0.29
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.018			0.019	0.021
Potassium	MG/L	-	-	2.4	4.4	4.5	5.1	2.7
Sodium	MG/L	20	-	184	194	199	38.3	18.4
Vanadium	MG/L	-	-	7.10E-03				8.00E-03
Zinc	MG/L	2	-	0.022			0.026	0.025

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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Concentration Exceeds (1)

Concentration Exceeds (2)

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Only Detected Results Reported.

TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-30S	GW-31S	GW-32S	GW-33S	GW-34S
Sample ID				GW-30S	GW-31S	GW-32S	GW-33S	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	05/16/06	05/18/06	05/16/06	05/16/06
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,2-Dichloroethene (total)	UG/L	5	-					
Acetone	UG/L	50	-				2.8 J	
Chlorobenzene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					
Benzo(k)fluoranthene	UG/L	0.002	-					
Chrysene	UG/L	0.002	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-		4.40E-03			

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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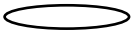
Concentration Exceeds (1)

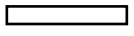
Concentration Exceeds (2)

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TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-30S	GW-31S	GW-32S	GW-33S	GW-34S
Sample ID				GW-30S	GW-31S	GW-32S	GW-33S	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	05/16/06	05/18/06	05/16/06	05/16/06
Parameter	**Units**	**(1)**	**(2)**					
Dioxins/Furans								
2,3,7,8-TCDF	NG/L	0.007	-		3.70E-03			
Metals								
Aluminum	MG/L	-	-	1.6	23.7	3.2		0.22
Arsenic	MG/L	0.025	-		0.014			
Barium	MG/L	1	-	0.50	0.23	0.070	0.014	0.16
Cadmium	MG/L	0.005	-	1.40E-03	5.10E-03			
Calcium	MG/L	-	-	249	337	85.5	194	166
Chromium	MG/L	0.05	-	0.031 J+	0.33 J+	0.043 J+		
Cobalt	MG/L	-	-		0.021			
Copper	MG/L	0.2	-		0.078	0.012		
Iron	MG/L	0.3	-	28.2	42.6	4.4	0.21	0.57
Lead	MG/L	0.025	-		0.037			
Magnesium	MG/L	35	-	61.9	103	46.3	52.1	46.9
Manganese	MG/L	0.3	-	2.8	2.3	0.30	0.54	0.46
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.014	0.20	0.025		0.011
Potassium	MG/L	-	-	4.5	18.4	4.6	3.4	8.9
Sodium	MG/L	20	-	799	7.5	9.3	11.4	61.8
Vanadium	MG/L	-	-		0.048	5.30E-03		
Zinc	MG/L	2	-	0.058	0.37	0.049		

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-35S
Sample ID				GW-35S
Matrix				Groundwater
Depth Interval (ft)				-
Date Sampled				05/18/06
Parameter	**Units**	**(1)**	**(2)**	
Volatile Organic Compounds				
1,2-Dichloroethene (total)	UG/L	5	-	
Acetone	UG/L	50	-	
Chlorobenzene	UG/L	5	-	
Vinyl chloride	UG/L	2	-	
Semivolatile Organic Compounds				
1,3-Dichlorobenzene	UG/L	3	-	
1,4-Dichlorobenzene	UG/L	3	-	
Anthracene	UG/L	50	-	
Benzo(a)anthracene	UG/L	0.002	-	
Benzo(a)pyrene	UG/L	ND	-	
Benzo(b)fluoranthene	UG/L	0.002	-	
Benzo(g,h,i)perylene	UG/L	-	-	
Benzo(k)fluoranthene	UG/L	0.002	-	
Chrysene	UG/L	0.002	-	
Fluoranthene	UG/L	50	-	
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-	
Phenanthrene	UG/L	50	-	
Pyrene	UG/L	50	-	
Dioxins/Furans				
2,3,7,8-TCDD	NG/L	7.00E-04	-	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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TABLE 3-1
DETECTED ANALYTES IN GROUNDWATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				GW-35S
Sample ID				GW-35S
Matrix				Groundwater
Depth Interval (ft)				-
Date Sampled				05/18/06
Parameter	**Units**	**(1)**	**(2)**	
Dioxins/Furans				
2,3,7,8-TCDF	NG/L	0.007	-	1.60E-03
Metals				
Aluminum	MG/L	-	-	0.25
Arsenic	MG/L	0.025	-	
Barium	MG/L	1	-	0.046
Cadmium	MG/L	0.005	-	
Calcium	MG/L	-	-	94.5
Chromium	MG/L	0.05	-	0.018 J+
Cobalt	MG/L	-	-	
Copper	MG/L	0.2	-	
Iron	MG/L	0.3	-	0.56
Lead	MG/L	0.025	-	
Magnesium	MG/L	35	-	33.9
Manganese	MG/L	0.3	-	0.72
Mercury	MG/L	7.00E-04	-	
Nickel	MG/L	0.1	-	
Potassium	MG/L	-	-	4.2
Sodium	MG/L	20	-	14.4
Vanadium	MG/L	-	-	
Zinc	MG/L	2	-	0.030

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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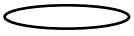
TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				SW-01	SW-02	SW-03	SW-04	SW-06
Sample ID				SW-01	SW-02	SW-03	SW-04	SW-06
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/15/06	05/15/06	05/15/06	05/15/06
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	UG/L	-	-	1 J			0.9 J	
Benzo(g,h,i)perylene	UG/L	-	-				0.5 J	
Benzo(k)fluoranthene	UG/L	-	-	1 J			0.9 J	
bis(2-Ethylhexyl)phthalate	UG/L	-	-				5 J	
Fluoranthene	UG/L	-	-	0.7 J			0.8 J	
Pyrene	UG/L	-	-	0.6 J			0.7 J	
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	-	-	2.90E-03 J				
2,3,7,8-TCDF	NG/L	-	-	0.012				
Metals								
Aluminum	MG/L	0.1	-	2.6			3.1	7.8
Barium	MG/L	-	-	0.088	0.060	0.058	0.11	0.085
Calcium	MG/L	-	-	75.3	79.2	78.9	82.4	190
Chromium	MG/L	-	-	5.10E-03			7.60E-03	9.50E-03
Cobalt	MG/L	-	-					4.90E-03
Copper	MG/L	*	-				0.014	0.015
Iron	MG/L	0.3	-	6.5	0.41	0.39	10.6	9.9
Lead	MG/L	*	-	0.015			0.016	0.013
Magnesium	MG/L	-	-	17.5	17.6	17.6	17.7	52.3
Manganese	MG/L	-	-	0.27 J+	0.10 J+	0.13 J+	2.8 J+	0.70 J+

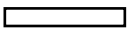
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)



Concentration Exceeds (2)

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Only Detected Results Reported.

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[LOGDATE] >= #5/15/2006# AND [LOGDATE] <= #5/19/2006# AND [MATRIX] = 'WS'

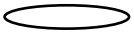
TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				SW-01	SW-02	SW-03	SW-04	SW-06
Sample ID				SW-01	SW-02	SW-03	SW-04	SW-06
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/15/06	05/15/06	05/15/06	05/15/06
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Nickel	MG/L	-	-					0.011
Potassium	MG/L	-	-	3.6 J+	2.8 J+	2.9 J+	3.0 J+	13.4 J+
Sodium	MG/L	-	-	189	185	176	103	35.9
Vanadium	MG/L	0.14	-	5.60E-03			7.80E-03	0.015
Zinc	MG/L	*	-	0.073	0.011	0.014	0.092	0.073

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.


Concentration Exceeds (1)

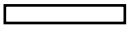

Concentration Exceeds (2)

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TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				SW-07	SW-08	SW-08
Sample ID				SW-07	SW-08	SW-08-DUP
Matrix				Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-
Date Sampled				05/15/06	05/15/06	05/15/06
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)
Semivolatile Organic Compounds						
Benzo(b)fluoranthene	UG/L	-	-			
Benzo(g,h,i)perylene	UG/L	-	-			
Benzo(k)fluoranthene	UG/L	-	-			
bis(2-Ethylhexyl)phthalate	UG/L	-	-			
Fluoranthene	UG/L	-	-			
Pyrene	UG/L	-	-			
Dioxins/Furans						
2,3,7,8-TCDD	NG/L	-	-			
2,3,7,8-TCDF	NG/L	-	-			
Metals						
Aluminum	MG/L	0.1	-			0.28
Barium	MG/L	-	-	0.048	0.076	0.082
Calcium	MG/L	-	-	97.7	97.5	98.7
Chromium	MG/L	-	-			
Cobalt	MG/L	-	-			
Copper	MG/L	*	-			
Iron	MG/L	0.3	-	0.30	0.81	1.4
Lead	MG/L	*	-			
Magnesium	MG/L	-	-	29.7	26.9	27.1
Manganese	MG/L	-	-	0.13 J+	0.18 J+	0.27 J+

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

J - The analyte was positively identified, the quantitation is an estimation.
J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.
J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
Blank - not detected. - = No criteria.

Only Detected Results Reported.

TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID				SW-07	SW-08	SW-08
Sample ID				SW-07	SW-08	SW-08-DUP
Matrix				Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-
Date Sampled				05/15/06	05/15/06	05/15/06
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)
Metals						
Nickel	MG/L	-	-			
Potassium	MG/L	-	-	1.7 J+	3.4 J+	3.5 J+
Sodium	MG/L	-	-	121	326	325
Vanadium	MG/L	0.14	-			
Zinc	MG/L	*	-			0.014

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

J - The analyte was positively identified, the quantitation is an estimation.
J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.
J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
Blank - not detected. - = No criteria.

Only Detected Results Reported.

TABLE 3-3
DETECTED ANALYTES IN SEDIMENT
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID		SW-01	SW-02	SW-03	SW-04	SW-06
Sample ID		SW-01	SW-02	SW-03	SW-04	SW-06
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled		05/15/06	05/15/06	05/15/06	05/15/06	05/15/06
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/KG	110	32 J	56	42 J	
Chlorobenzene	UG/KG		2 J			
Methyl ethyl ketone (2-Butanone)	UG/KG	28 J		13 J		
Toluene	UG/KG			8 J		
Semivolatile Organic Compounds						
2-Methylphenol (o-cresol)	UG/KG				64 J	
4-Methylphenol (p-cresol)	UG/KG		230 J	280 J	220 J	
Acenaphthylene	UG/KG	150 J	42 J	68 J	70 J	
Anthracene	UG/KG	110 J	43 J	53 J	80 J	22 J
Benzo(a)anthracene	UG/KG	460 J	230 J	420 J	380 J	97 J
Benzo(a)pyrene	UG/KG	760 J	340 J	620 J	480 J	90 J
Benzo(b)fluoranthene	UG/KG	1,800	780	1,400	790 J	190 J
Benzo(g,h,i)perylene	UG/KG	530 J	240 J	340 J	240 J	38 J
Benzo(k)fluoranthene	UG/KG	1,800	790	1,400	220 J	190 J
bis(2-Ethylhexyl)phthalate	UG/KG	240 J	200 J	240 J		
Carbazole	UG/KG	66 J	29 J	46 J	52 J	
Chrysene	UG/KG	720 J	330 J	580 J	420 J	97 J
Dibenz(a,h)anthracene	UG/KG	110 J	57 J	88 J	63 J	
Fluoranthene	UG/KG	1,100	550	840	800 J	230 J
Fluorene	UG/KG					23 J
Indeno(1,2,3-cd)pyrene	UG/KG	480 J	220 J	330 J	220 J	42 J
Phenanthrene	UG/KG	320 J	170 J	220 J	330 J	160 J
Pyrene	UG/KG	820 J	400 J	600 J	540 J	130 J

Flags assigned during chemistry validation are shown.

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J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.
J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
Blank - not detected. - = No criteria.

Only Detected Results Reported.

TABLE 3-3
DETECTED ANALYTES IN SEDIMENT
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID		SW-01	SW-02	SW-03	SW-04	SW-06
Sample ID		SW-01	SW-02	SW-03	SW-04	SW-06
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled		05/15/06	05/15/06	05/15/06	05/15/06	05/15/06
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1248	UG/KG					
Metals						
Aluminum	MG/KG	5,880 J+	6,840 J+	6,270 J+	8,000 J+	6,550 J+
Arsenic	MG/KG	6.0	4.2			4.2
Barium	MG/KG	66.6 J+	123 J+	43.0 J+	63.4 J+	50.6 J+
Beryllium	MG/KG		0.34			0.32
Cadmium	MG/KG	1.2	0.94	0.39	0.83	0.61
Calcium	MG/KG	7,660	45,200	22,800	32,600	36,200
Chromium	MG/KG	12.0	12.6	31.3	13.6	9.3
Cobalt	MG/KG	4.2	6.6	5.5	4.6	5.9
Copper	MG/KG	21.7	23.8	17.2	23.2	25.4
Iron	MG/KG	16,600 J+	15,300 J+	11,300 J+	12,400 J+	13,000 J+
Lead	MG/KG	46.2	25.8	19.1	59.4	18.5
Magnesium	MG/KG	2,550 J+	16,000 J+	9,560 J+	13,200 J+	12,700 J+
Manganese	MG/KG	308	361	283	296	439
Mercury	MG/KG			0.044	0.062	0.034
Nickel	MG/KG	11.1	17.4	15.5	14.1	14.0
Potassium	MG/KG	611	1,240	1,040	769	1,060
Sodium	MG/KG	638	281	343	693	
Vanadium	MG/KG	14.8	14.3	13.2	18.0	14.5
Zinc	MG/KG	178 J+	133 J+	77.7 J+	126 J+	94.3 J+
Miscellaneous Parameters						
Cyanide	MG/KG	3.5 J-				1.1 J-

Flags assigned during chemistry validation are shown.

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J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
Blank - not detected. - = No criteria.

Only Detected Results Reported.

TABLE 3-3
DETECTED ANALYTES IN SEDIMENT
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID		SW-07	SW-08	SW-08
Sample ID		SW-07	SW-08	SW-08-DUP
Matrix		Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled		05/15/06	05/15/06	05/15/06
Parameter	**Units**			Field Duplicate (1-1)
Volatile Organic Compounds				
Acetone	UG/KG	40 J	22 J	16 J
Chlorobenzene	UG/KG			
Methyl ethyl ketone (2-Butanone)	UG/KG			11 J
Toluene	UG/KG			
Semivolatile Organic Compounds				
2-Methylphenol (o-cresol)	UG/KG			
4-Methylphenol (p-cresol)	UG/KG		250 J	
Acenaphthylene	UG/KG	86 J		
Anthracene	UG/KG	49 J		
Benzo(a)anthracene	UG/KG	300 J	460 J	360 J
Benzo(a)pyrene	UG/KG	290 J	540 J	500 J
Benzo(b)fluoranthene	UG/KG	590	1,100 J	1,200 J
Benzo(g,h,i)perylene	UG/KG	97 J	430 J	320 J
Benzo(k)fluoranthene	UG/KG	600	260 J	1,200 J
bis(2-Ethylhexyl)phthalate	UG/KG			
Carbazole	UG/KG			
Chrysene	UG/KG	310 J	540 J	460 J
Dibenz(a,h)anthracene	UG/KG	36 J		
Fluoranthene	UG/KG	350 J	860 J	720 J
Fluorene	UG/KG			
Indeno(1,2,3-cd)pyrene	UG/KG	99 J	360 J	280 J
Phenanthrene	UG/KG	43 J	350 J	290 J
Pyrene	UG/KG	360 J	620 J	500 J

Flags assigned during chemistry validation are shown.

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Blank - not detected. - = No criteria.

Only Detected Results Reported.

TABLE 3-3
DETECTED ANALYTES IN SEDIMENT
PFOHL BROTHERS LANDFILL SITE
MAY 2006

Location ID		SW-07	SW-08	SW-08
Sample ID		SW-07	SW-08	SW-08-DUP
Matrix		Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	0.0-0.5	0.0-0.5
Date Sampled		05/15/06	05/15/06	05/15/06
Parameter	**Units**			Field Duplicate (1-1)
Polychlorinated Biphenyls				
Aroclor 1248	UG/KG	34		
Metals				
Aluminum	MG/KG	4,360 J+	7,150 J+	2,780 J+
Arsenic	MG/KG		4.3	
Barium	MG/KG	42.6 J+	55.4 J+	24.4 J+
Beryllium	MG/KG			
Cadmium	MG/KG		0.72	0.31
Calcium	MG/KG	33,900	87,000	38,200
Chromium	MG/KG	6.7	14.7	6.6
Cobalt	MG/KG	4.6	5.2	2.1
Copper	MG/KG	12.1	34.2	13.9
Iron	MG/KG	12,100 J+	14,700 J+	6,550 J+
Lead	MG/KG	14.9	41.1	18.0
Magnesium	MG/KG	11,600 J+	28,100 J+	13,000 J+
Manganese	MG/KG	1,120	503	235
Mercury	MG/KG		0.046	
Nickel	MG/KG	9.5	15.7	6.2
Potassium	MG/KG	754	1,130	505
Sodium	MG/KG	292	569	345
Vanadium	MG/KG	10.4	17.7	7.6
Zinc	MG/KG	74.3 J+	169 J+	68.2 J+
Miscellaneous Parameters				
Cyanide	MG/KG			

Flags assigned during chemistry validation are shown.

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Only Detected Results Reported.

TABLE 3-4

REVISION OF TABLE 3.2 FROM THE O&M PLAN

GROUNDWATER SAMPLING SUMMARY
OPERATION AND MAINTENANCE PLAN
PFOHL BROTHERS LANDFILL SITE, CHEEKTOWAGA, NEW YORK

LOCATIONS

GW-1D/1S
GW- 3D/3S
GW- 4D/4S
GW- 7D/7S
GW- 8D/8S(R)
GW- 26D/35S
GW- 28S
GW- 29S
GW- 30S
GW- 31S
GW- 32S
GW- 33S
GW- 34S

FREQUENCY

semi-annually for overburden and bedrock groundwater
annually for radiological parameters by gamma spectroscopy

PARAMETERS

Field	pH conductivity temperature turbidity
VOCs	Acetone Benzene 1,2-Dichloroethene (total) 1,1,2-Trichloroethane Vinyl chloride
SVOCs	Phenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene bis(2-Ethylhexyl)phthalate

TABLE 3-4 (continued)

REVISION OF TABLE 3.2 FROM THE O&M PLAN

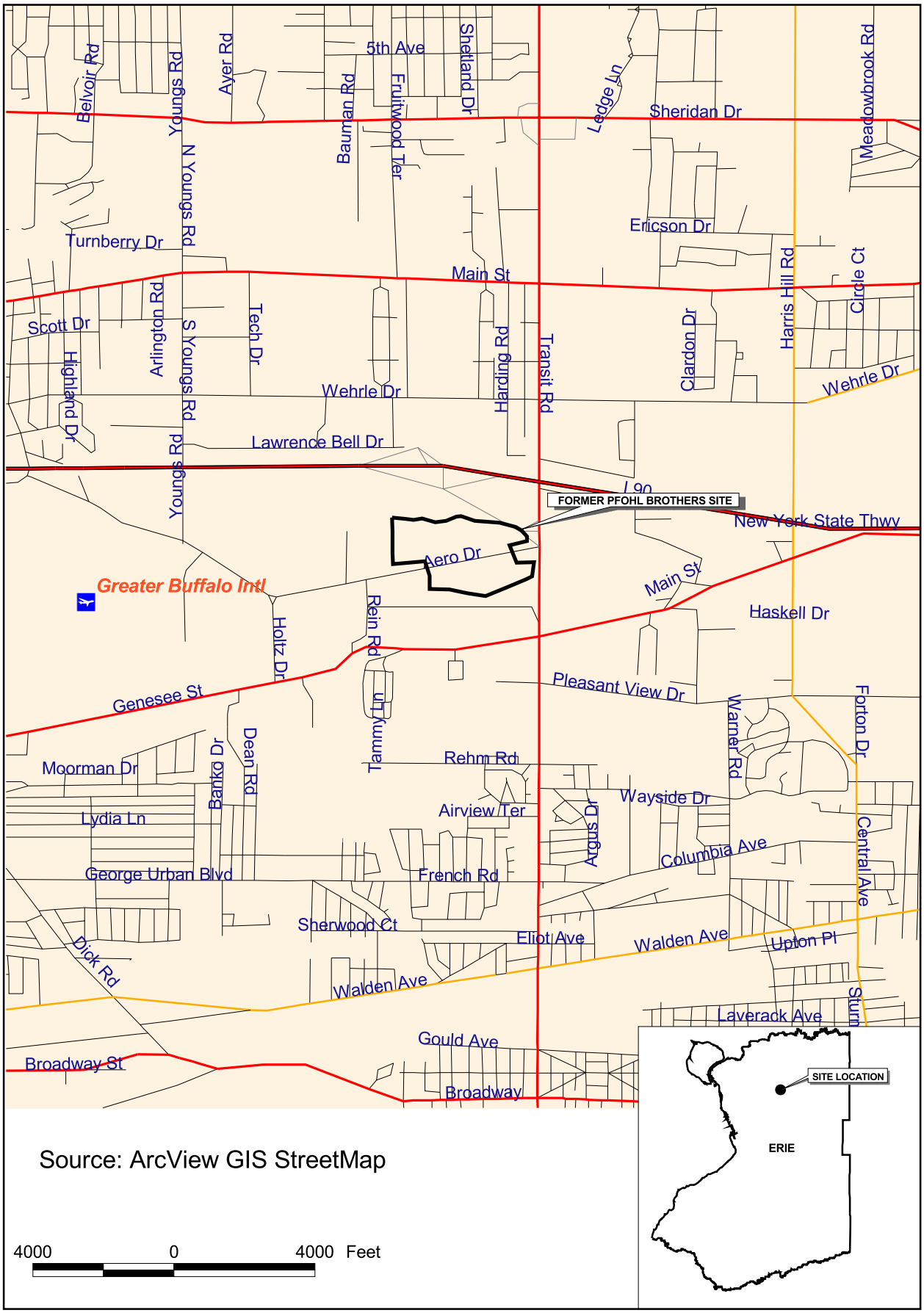
GROUNDWATER SAMPLING SUMMARY
OPERATION AND MAINTENANCE PLAN
PFOHL BROTHERS LANDFILL SITE, CHEEKTOWAGA, NEW YORK

PARAMETERS (cont'd)

Metals	Antimony	
	Arsenic	
	Barium	
	Cadmium	
	Chromium	
	Copper	
	Iron	
	Lead	
	Magnesium	
	Manganese	
	Mercury	
	Nickel	
	Sodium	
	Zinc	
Dioxins/Furans	2,3,7,8-TCDD	(pending results of October 2006 sampling)
	2,3,7,8-TCDF	(pending results of October 2006 sampling)
Radiochemistry by Gamma Spectroscopy [(1)]		

Note:
(1) Each sample for radiochemistry will be filtered by the laboratory to create a dissolved (filtrate) sample and an insoluble (filter) sample. Each sample will be analyzed.

FIGURES



n:\111172700.00000\gis\arcview\pfohl_sitelocation.apr Pfohl Bros Location Map
12/15/2005

URS

PFOHL BROTHERS LANDFILL
SITE LOCATION MAP

FIGURE 1-1

Legend

- Monitoring Well Location
- Staff Gauge Location
- Manhole Location
- Wet Well Location

400 0 400 Feet

PFOHL BROTHERS LANDFILL
MONITORING LOCATIONS

URS

FIGURE 3-1

N:\11172700.00000\GIS\ArcView\pfhol.apr WELL LOCATIONS
12/15/2005

Legend

- Surface Water/Sediment Sample Location

350 0 350 Feet

PFOHL BROTHERS LANDFILL
SURFACE WATER/SEDIMENT SAMPLING LOCATIONS

URS

FIGURE 3-2

N:\11172700.00000\GIS\ArcView\pfhol.apr SURFACE WATER LOCATIONS
11/20/2005

APPENDIX A

EXAMPLE DAILY INSPECTION SHEET

Pfohl Brothers Landfill Site

Daily Logsheet — **Town of Cheektowaga**

Date: 1/27/06 – FRIDAY — Weather conditions: COLD, SUNNY 2

Time: 10:35 AM — Read by: B. PUGH

	Level of Water from bottom (ft.)	Flow gallons / minute	Flow Totals gallons	Pump Run Time Hrs.
WW-3	4.1	0	1,030,675	494
WW-2	3.2	0	64,237	53
WW-1	3.5	0	614,211	371
WW-6	4.4	25.3	2,439,549	1506
WW-4	4.8	27.3	3,682,363	2078
WW-5	3.5	0	959,582	470

Flow Totalizer at Meter chamber: 8,751,101

Heat Trace

Outside temp T = 20°

Current A = 3.1 A.

Set point SP = 40

Surge Suppressor events: 505391

Motor Control Center

Volts 480 volts

Amps 10 amps

Which WW was running?

1☐ 2☐ 3☐ 4☑ 5☐ 6☑

Filter Checked ☐ Changed ☐

Comments and/or Current Conditions

1) RAN WW1 ON MANUAL – RESET NEG. FLOW ALARM – RESET TO AUTO

2) INSTALLED NEW HEAT TRACE MODULE – PROGRAMED SET POINTS WITH ASSISTANCE FROM BILL G & FRED PITCHER

3) OLD MODULE BEING SENT BACK TO FACTORY

4) ALARM ON HEAT TRACE MAY NEED TO BE RESET FOLLOWING 1ST HEATING CYCLE

Pfohl Brothers Landfill Site

Daily Logsheet — **Town of Cheektowaga**

Date: 3/17/06 — Weather conditions: SUNNY 30°

Time: 2:25 PM — Read by: B. PUGH

	Level of Water from bottom (ft.)	Flow gallons / minute	Flow Totals gallons	Pump Run Time Hrs.
WW-3	4.2	0	1,307,196	644
WW-2	4.5	0	64,149	53
WW-1	4.0	0	613,558	371
WW-6	4.3	0	3269578	2114
WW-4	7.1	0	3674559	2170
WW-5	5.3	0	1,894,823	809

Flow Totalizer at Meter chamber: 10,804,364

Heat Trace

Outside temp T = °

Current A = OFF

Set point SP =

Surge Suppressor events: 507,482

Motor Control Center

Volts 480 volts

Amps Ø amps

Which WW was running?

1☐ 2☐ 3☐ 4☐ 5☐ 6☐

Filter — Checked ☐ — Changed ☐

Comments and/or Current Conditions

DELIVERED THREE (3) NEW 1.5 H.P. PUMPS TO CONTROL BLDG — PICKED UP FROM GLAUBER TODAY — MEASURED CORDS 28' ± (OK)

WW4 and heater circuit locked out.

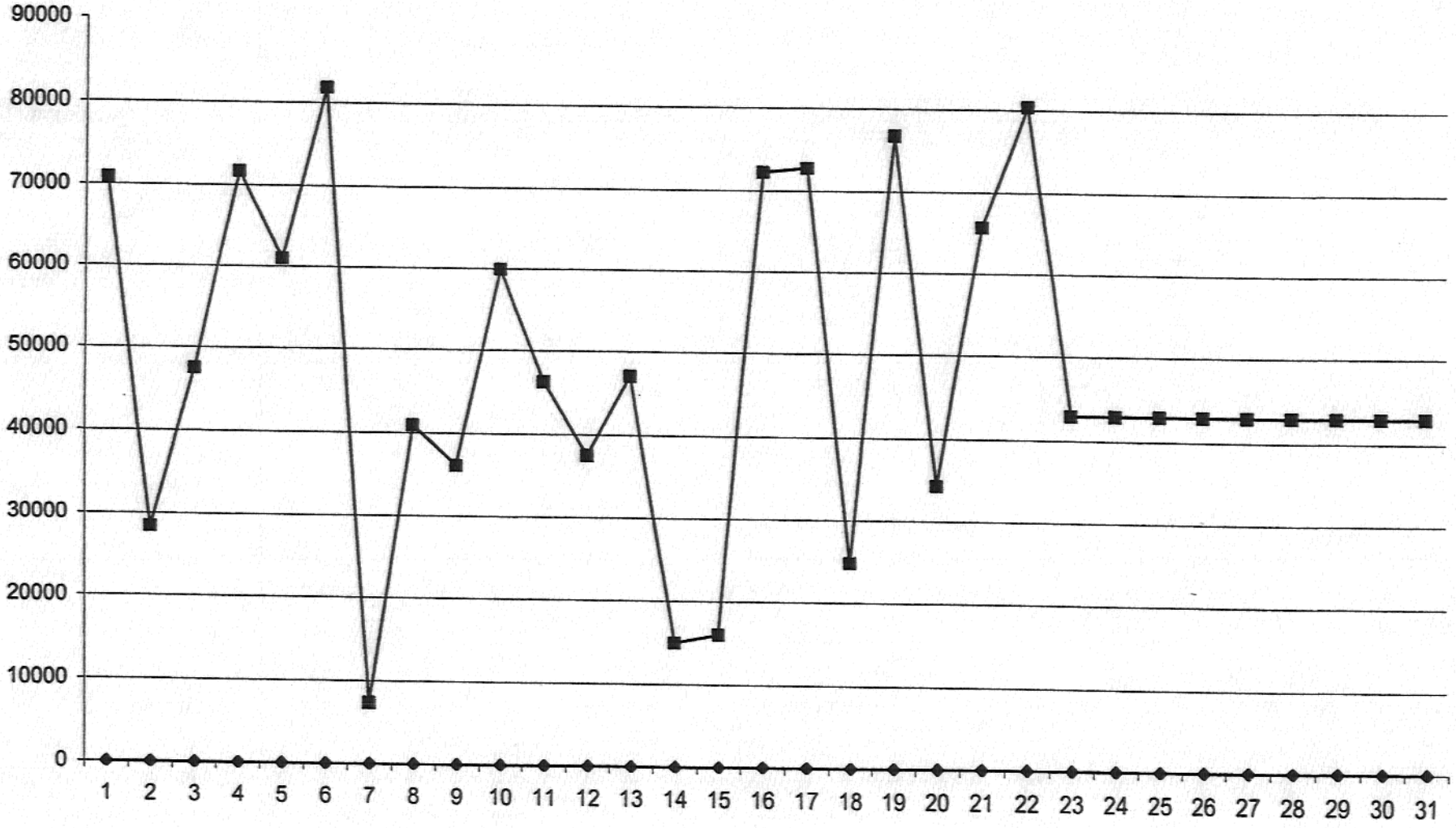
APPENDIX B

MONTHLY FLOW SUMMARIES
JANUARY 2006 – JUNE 2006

Direct Discharge Flow Data

12/31/2005		7,389,161	56,070	5896790	
January-06	**Time; 11:58pm unless otherwise stated**	**Totalizer Reading (Gallons)**	**Daily Total Discharge (Gallons)**	**Total Direct Discharge (Gallons)**	**Notes**
1		7459973	70,812	5,967,602	
2		7488361	28,388	5,995,990	
3		7535811	47,451	6,043,441	
4		7607516	71,705	6,115,146	
5		7668500	60,984	6,176,130	
6		7750284	81,784	6,257,914	
7		7757710	7,426	6,265,340	
8		7798586	40,876	6,306,216	
9		7834731	36,145	6,342,361	
10		7894652	59,922	6,402,283	
11		7940921	46,269	6,448,552	
12		7978467	37,546	6,486,098	
13		8025480	47,013	6,533,111	
14		8040452	14,972	6,548,083	
15		8056451	16,000	6,564,083	
16		8128713	72,262	6,636,345	
17		8201515	72,802	6,709,147	
18		8226332	24,818	6,733,965	
19		8303138	76,806	6,810,771	
20		8337421	34,283	6,845,054	
21		8403142	65,722	6,910,776	
22		8483510	80,368	6,991,144	
23		8483510	42,927	7,034,071	
24		8483510	42,927	7,076,998	
25		8483510	42,927	7,119,925	
26		8483510	42,927	7,162,852	
27		8483510	42,927	7,205,779	
28		8483510	42,927	7,248,706	
29		8483510	42,927	7,291,633	
30		8483510	42,930	7,334,563	
31		8869863	42,929	7,377,492	
		1,480,702	**1,480,702**	**1,480,702**	

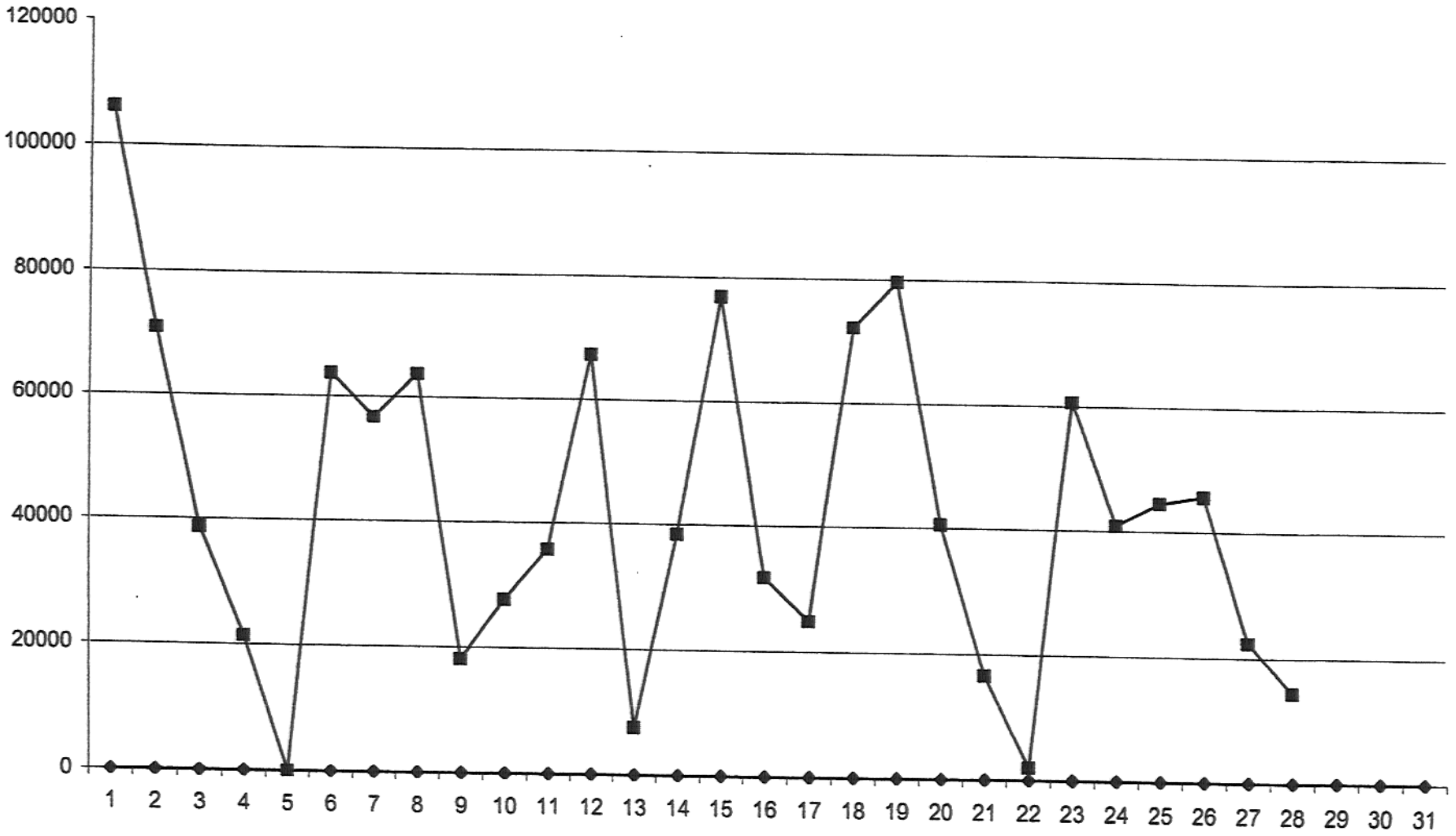
January
2006



Direct Discharge Flow Data

1/31/2006		8,869,863	42,929	7,377,492	
February-06	**Time; 11:58pm unless otherwise stated**	**Totalizer Reading (Gallons)**	**Daily Total Discharge (Gallons)**	**Total Direct Discharge (Gallons)**	**Notes**
1		8975892	106,028	7,483,520	
2		9046666	70,774	7,554,294	
3		9085410	38,744	7,593,038	
4		9106779	21,369	7,614,407	
5		9106779	0	7,614,407	
6		9170546	63,767	7,678,174	
7		9227169	56,623	7,734,797	
8		9290883	63,714	7,798,511	
9		9309019	18,136	7,816,647	
10		9336651	27,632	7,844,279	
11		9372422	35,771	7,880,050	
12		9439661	67,239	7,947,289	
13		9447248	7,587	7,954,876	
14		9485735	38,487	7,993,363	
15		9562673	76,938	8,070,301	
16		9594329	31,656	8,101,957	
17		9619161	24,832	8,126,789	
18		9691323	72,162	8,198,951	
19		9770975	79,652	8,278,603	
20		9811586	40,611	8,319,214	
21		9828237	16,651	8,335,865	
22		9830250	2,013	8,337,878	
23		9890871	60,621	8,398,499	
24		9931698	40,827	8,439,326	
25		9976157	44,459	8,483,785	
26		10021730	45,577	8,529,362	
27		10044030	22,299	8,551,661	
28		10058540	14,508	8,566,169	
29					
30					
31					
		1,188,677	**1,188,677**	**1,188,677**	

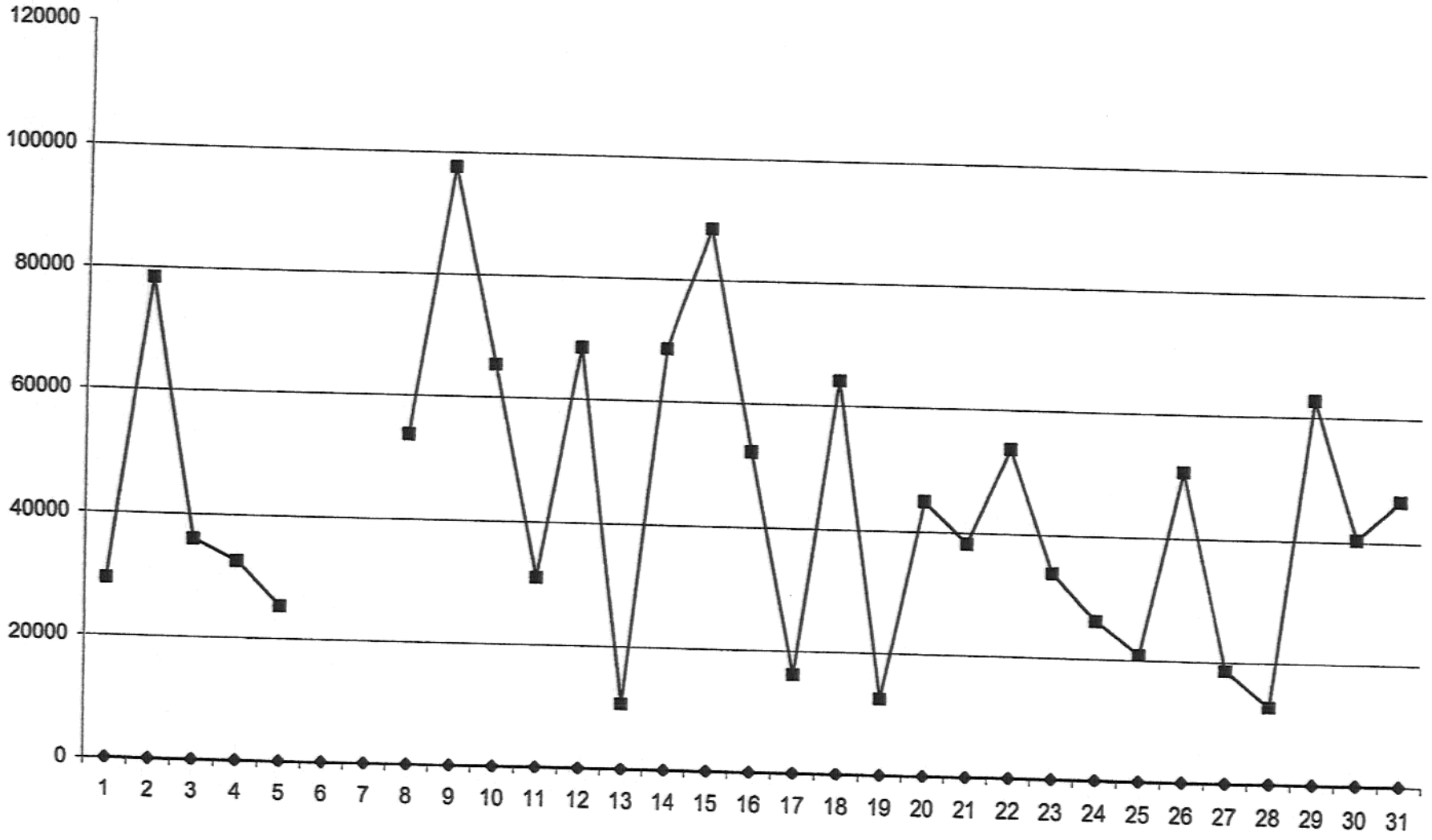
February
2006



Direct Discharge Flow Data

2/28/2006		10,058,540	14,508	8,566,169	
March-06	**Time; 11:58pm unless otherwise stated**	**Totalizer Reading (Gallons)**	**Daily Total Discharge (Gallons)**	**Total Direct Discharge (Gallons)**	**Notes**
1		10087930	29,389	8,595,558	
2		10166220	78,291	8,673,849	
3		10202210	35,989	8,709,838	
4		10234740	32,531	8,742,369	
5		10260040	25,303	8,767,672	
6				8,767,672	
7				8,767,672	
8		10313730	53,683	8,821,355	
9		10411330	97,602	8,918,957	
10		10476690	65,362	8,984,319	
11		10507660	30,969	9,015,288	
12		10576130	68,470	9,083,758	
13		10586830	10,699	9,094,457	
14		10655450	68,625	9,163,082	
15		10743840	88,388	9,251,470	
16		10796100	52,261	9,303,731	
17		10812220	16,117	9,319,848	
18		10876320	64,099	9,383,947	
19		10888850	12,529	9,396,476	
20		10933710	44,859	9,441,335	
21		10971950	38,238	9,479,573	
22		11025650	53,702	9,533,275	
23		11059370	33,723	9,566,998	
24		11085570	26,195	9,593,193	
25		11106430	20,867	9,614,060	
26		11157230	50,798	9,664,858	
27		11175780	18,548	9,683,406	
28		11188490	12,712	9,696,118	
29		11251230	62,742	9,758,860	
30		11291650	40,413	9,799,273	
31		11338380	46,735	9,846,008	
		1,279,840	**1,279,839**	**1,279,839**	

March
2006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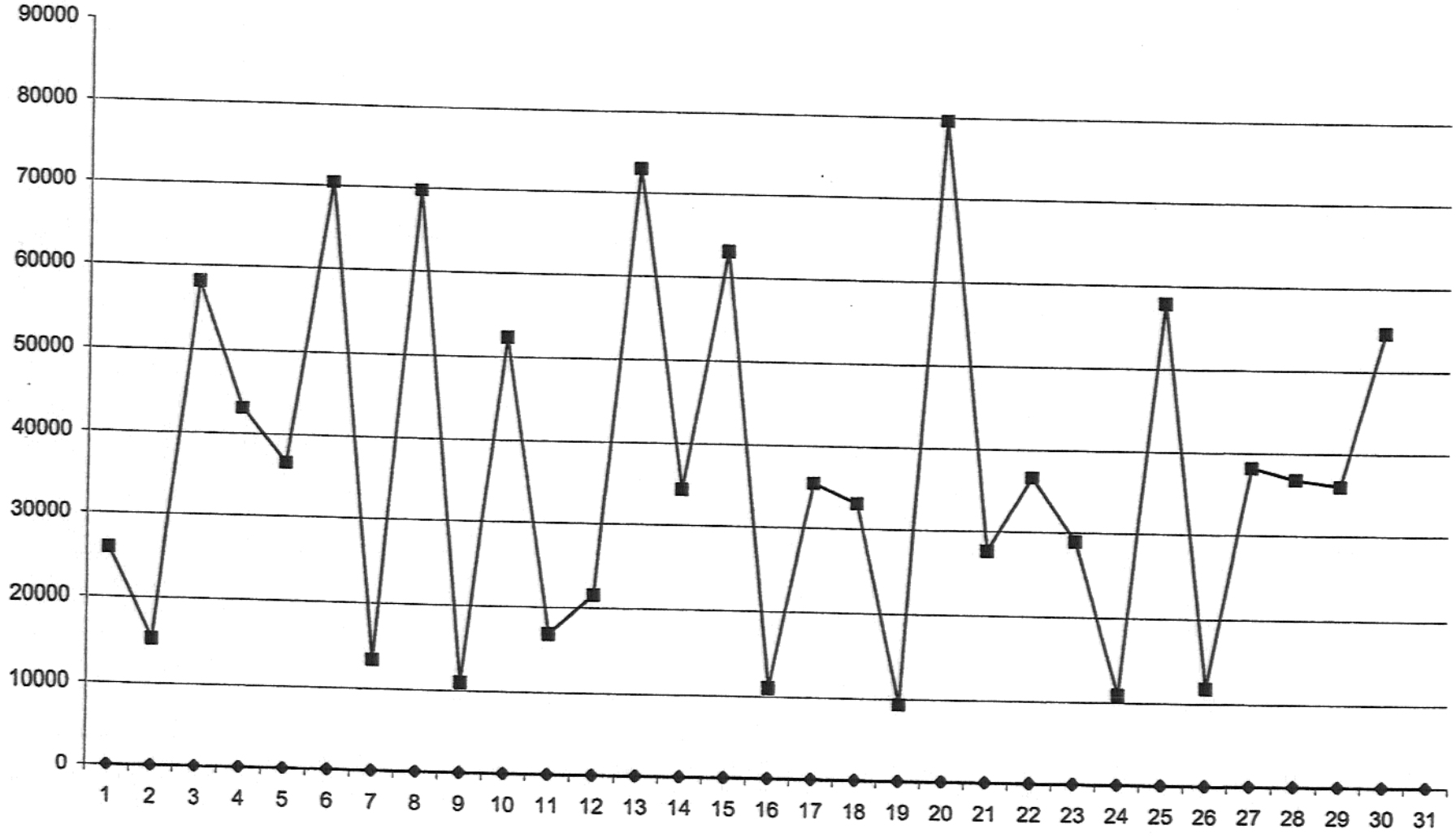
Direct Discharge Flow Data

3/31/2006		11,338,380	46,735	9,846,008	
April-06	**Time; 11:58pm unless otherwise stated**	**Totalizer Reading (Gallons)**	**Daily Total Discharge (Gallons)**	**Total Direct Discharge (Gallons)**	**Notes**
1		11364190	25,811	9,871,819	
2		11379400	15,209	9,887,028	
3		11437520	58,117	9,945,145	
4		11480610	43,091	9,988,236	
5		11517140	36,528	10,024,764	
6		11587550	70,412	10,095,176	
7		11600880	13,328	10,108,504	
8		11670600	69,726	10,178,230	
9		11681560	10,956	10,189,186	
10		11733910	52,356	10,241,542	
11		11750770	16,851	10,258,393	
12		11772260	21,494	10,279,887	
13		11845240	72,981	10,352,868	
14		11879630	34,389	10,387,257	
15		11942690	63,065	10,450,322	
16		11953700	11,006	10,461,328	
17		11989120	35,422	10,496,750	
18		12022200	33,082	10,529,832	
19		12031530	9,321	10,539,153	
20		12111140	79,618	10,618,771	
21		12138750	27,608	10,646,379	
22		12175320	36,573	10,682,952	
23		12204260	28,933	10,711,885	
24		12215150	10,894	10,722,779	
25		12273020	57,872	10,780,651	
26		12284820	11,801	10,792,452	
27		12323030	38,206	10,830,658	
28		12359790	36,764	10,867,422	
29		12395800	36,001	10,903,423	
30		12450370	54,571	10,957,994	
31					
		1,111,990	**1,111,986**	**1,111,986**	

April
2006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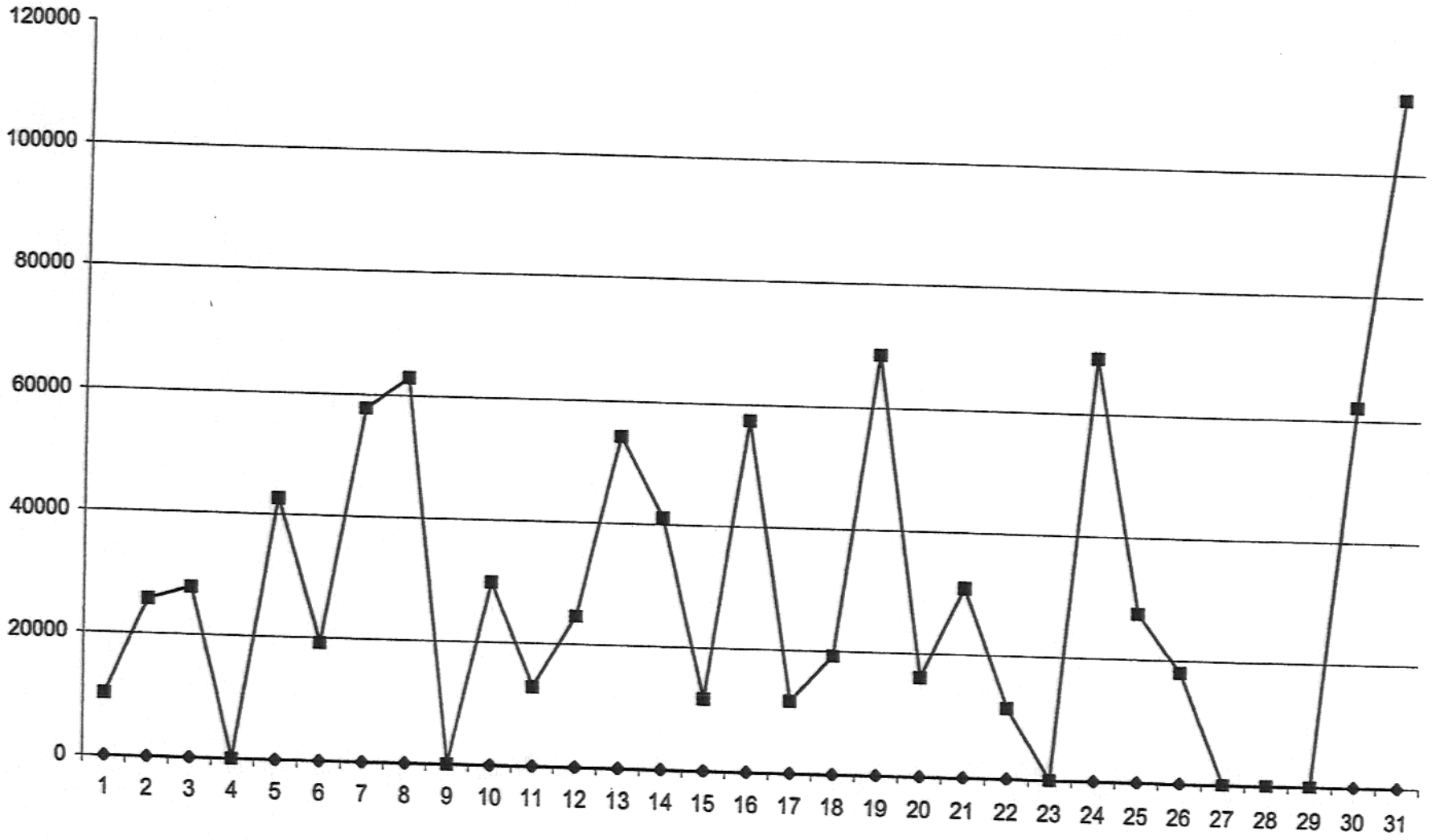
Direct Discharge Flow Data

4/30/2006		12,450,370	54,571	10,957,994	
May-06	**Time; 11:58pm unless otherwise stated**	**Totalizer Reading (Gallons)**	**Daily Total Discharge (Gallons)**	**Total Direct Discharge (Gallons)**	**Notes**
1		12460440	10,075	10,968,069	
2		12486220	25,777	10,993,846	
3		12514030	27,809	11,021,655	
4		12514030	0	11,021,655	
5		12556640	42,616	11,064,271	
6		12575800	19,157	11,083,428	
7		12633590	57,791	11,141,219	
8		12696480	62,888	11,204,107	
9		12696480	0	11,204,107	
10		12726330	29,852	11,233,959	
11		12739090	12,762	11,246,721	
12		12763640	24,551	11,271,272	
13		12817830	54,188	11,325,460	
14		12858840	41,004	11,366,464	
15		12870480	11,646	11,378,110	
16		12927840	57,361	11,435,471	
17		12939480	11,635	11,447,106	
18		12958700	19,219	11,466,325	
19		13027320	68,627	11,534,952	
20		13043330	16,002	11,550,954	
21		13074220	30,895	11,581,849	
22		13085650	11,432	11,593,281	
23		13085650	0	11,593,281	
24		13154660	69,007	11,662,288	
25		13182190	27,532	11,689,820	
26		13200160	17,972	11,707,792	
27		13200160	0	11,707,792	
28		13200160	0	11,707,792	
29		13200160	0	11,707,792	
30		13262300	62,140	11,769,932	
31		13374560	112,253	11,882,185	
		924,190	**924,191**	**924,191**	

May
2006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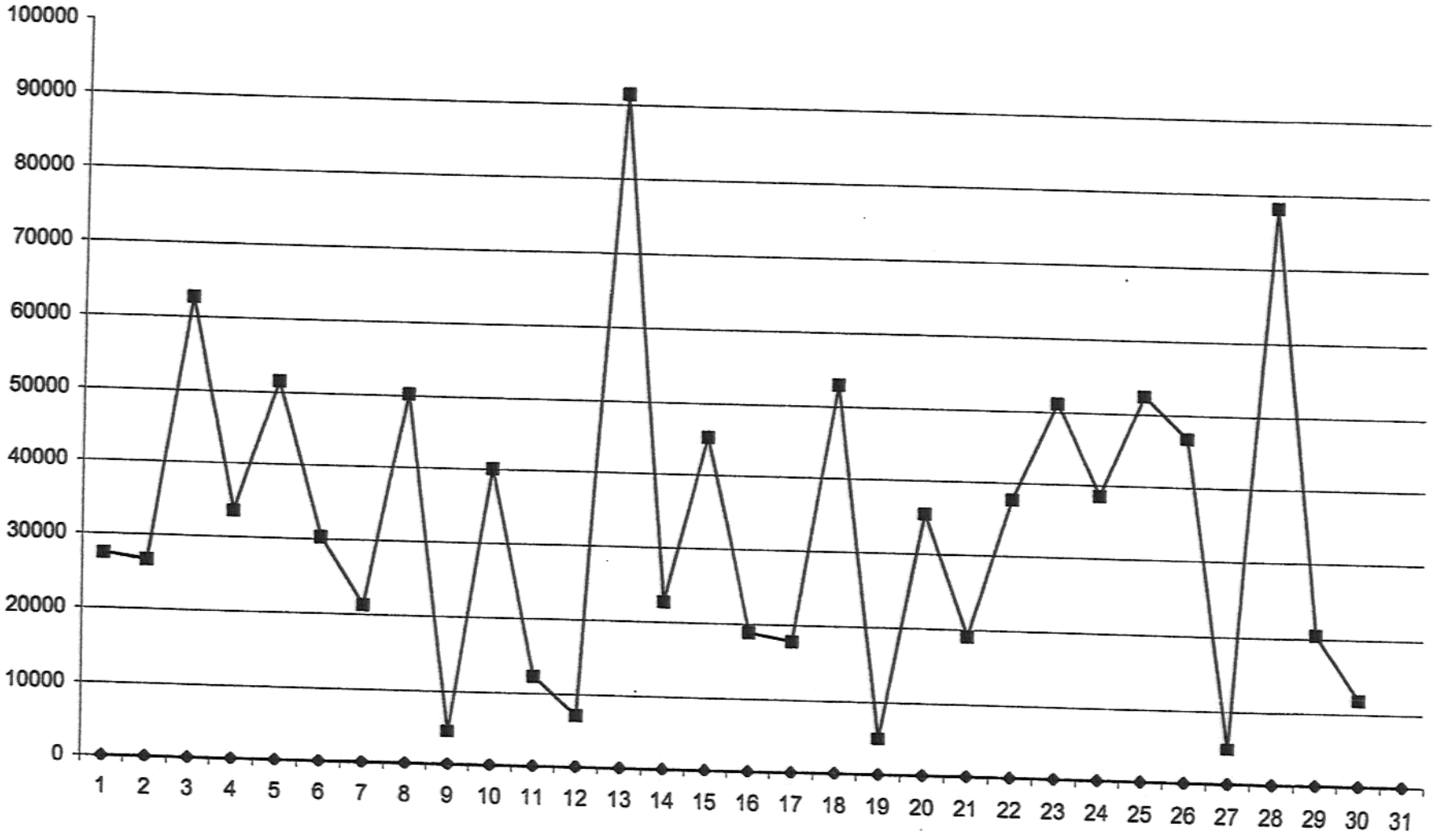
Direct Discharge Flow Data

5/31/2006		13,374,560	112,253	11,882,185	
June-06	**Time; 11:58pm unless otherwise stated**	**Totalizer Reading (Gallons)**	**Daily Total Discharge (Gallons)**	**Total Direct Discharge (Gallons)**	**Notes**
1		13401990	27,433	11,909,618	
2		13428600	26,611	11,936,229	
3		13491280	62,675	11,998,904	
4		13524830	33,554	12,032,458	
5		13576360	51,529	12,083,987	
6		13606620	30,261	12,114,248	
7		13627880	21,262	12,135,510	
8		13678120	50,242	12,185,752	
9		13682700	4,575	12,190,327	
10		13722840	40,136	12,230,463	
11		13735120	12,287	12,242,750	
12		13742270	7,148	12,249,898	
13		13833680	91,406	12,341,304	
14		13856390	22,717	12,364,021	
15		13901660	45,262	12,409,283	
16		13920560	18,907	12,428,190	
17		13938410	17,849	12,446,039	
18		13991370	52,956	12,498,995	
19		13996350	4,983	12,503,978	
20		14031750	35,404	12,539,382	
21		14050870	19,118	12,558,500	
22		14088580	37,709	12,596,209	
23		14139790	51,212	12,647,421	
24		14178350	38,556	12,685,977	
25		14230860	52,511	12,738,488	
26		14277610	46,749	12,785,237	
27		14282430	4,822	12,790,059	
28		14360680	78,248	12,868,307	
29		14381120	20,444	12,888,751	
30		14392980	11,861	12,900,612	
31					
		1,018,420	**1,018,427**	**1,018,427**	

June
2006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APPENDIX C

HYDRAULIC MONITORING TABLES

TABLE 1
PHOFL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MARCH 2006

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-03S MNW	1073812.622	1114605.762	692.61	NA	693.80	S	1	3/29/2006 0910	2.85	690.95	0.00	690.95	
GW-04S MNW	1072284.456	1114685.127	690.76	NA	692.72	S	1	3/29/2006 0957	4.63	688.09	0.00	688.09	
GW-07S MNW	1071238.157	1117666.265	697.47	NA	699.51	S	1	3/29/2006 0952	5.25	694.26	0.00	694.26	
GW-08SR MNW	1073714.172	1116786.343	695.08	NA	697.50	S	1	3/29/2006 0923	5.43	692.07	0.00	692.07	
GW-28S MNW	1073129.479	1117648.927	698.60	NA	700.95	S	1	3/29/2006 0926	6.61	694.34	0.00	694.34	
GW-29S MNW	1072552.638	1117761.993	697.50	NA	699.63	S	1	3/29/2006 0933	7.18	692.45	0.00	692.45	
GW-30S MNW	1072096.109	1117743.563	693.67	NA	696.58	S	1	3/29/2006 0936	7.30	689.28	0.00	689.28	
GW-31S MNW	1071786.280	1117191.441	695.84	NA	698.62	S	1	3/29/2006 0938	3.10	695.52	0.00	695.52	
GW-32S MNW	1071613.793	1116364.200	696.19	NA	698.37	S	1	3/29/2006 0940	3.61	694.76	0.00	694.76	
GW-33S MNW	1072165.625	1115561.866	695.94	NA	698.24	S	1	3/29/2006 0946	5.25	692.99	0.00	692.99	
GW-34S MNW	1072979.205	1114730.200	692.51	NA	694.77	S	1	3/29/2006 0901	3.06	691.71	0.00	691.71	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type:

MH	Manhole Monitoring Point
MNW	Monitoring Well

Filter = {(LOGDATE=#3/29/2006#)}

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TABLE 1
PHOFL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MARCH 2006

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-35S MNW	1071701.925	1115985.585	696.19	NA	697.39	S	1	3/29/2006 0937	3.55	693.84	0.00	693.84	
MH-01 MH	1073806.665	1114810.501	698.62	NA	698.62	NA	1	3/29/2006 0907	11.95	686.67	0.00	686.67	
MH-03 MH	1073736.789	1115259.334	699.40	NA	699.40	NA	1	3/29/2006 0916	11.17	688.23	0.00	688.23	
MH-07 MH	1073838.229	1116243.757	696.82	NA	696.82	NA	1	3/29/2006 0918	9.36	687.46	0.00	687.46	
MH-10 MH	1073540.729	1117381.524	703.01	NA	703.01	NA	1	3/29/2006 0923	14.46	688.55	0.00	688.55	
MH-15 MH	1072531.567	1117761.125	699.02	NA	699.02	NA	1	3/29/2006 0932	14.70	684.32	NM		
MH-16 MH	1072133.714	1117748.238	698.57	NA	698.57	NA	1	3/29/2006 0938	14.42	684.15	0.00	684.15	
MH-17 MH	1071813.137	1117180.019	702.16	NA	702.16	NA	1	3/29/2006 0937	18.12	684.04	0.00	684.04	
MH-20 MH	1071756.395	1115997.024	706.20	NA	706.20	NA	1	3/29/2006 0942	19.25	686.95	0.00	686.95	
MH-22 MH	1072158.023	1115589.309	698.05	NA	698.05	NA	1	3/29/2006 0945	8.95	689.10	0.00	689.10	
MH-25 MH	1072483.928	1114820.313	698.17	NA	698.17	NA	1	3/29/2006 1000	12.04	686.13	0.00	686.13	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type:
MH Manhole Monitoring Point
MNW Monitoring Well

TABLE 1
PHOFL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MARCH 2006

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser) Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick.(ft)	Corrected Water Elev. (ft)	Remark
SG-01 SG	1073882.887	1114813.101		NA	690.00	S	1	3/29/2006 0914	-2.70	692.70	0.00	692.70	
SG-02	1073796.856	1115255.756						3/29/2006 0922	-3.35	-	0.00	-	
WW-01 MH	1073676.903	1115710.476		NA	684.02		1	3/29/2006 0000	-4.1	688.12	0.00	688.12	
WW-02 MH	1073684.724	1116792.311		NA	684.18		1	3/29/2006 0000	-4.2	688.38	0.00	688.38	
WW-03 MH	1073140.339	1117618.499		NA	683.80		1	3/29/2006 0000	-4.9	688.70	0.00	688.70	
WW-04 MH	1072057.563	1117610.508		NA	676.62		1	3/29/2006 0000	-7.1	683.72	0.00	683.72	
WW-05 MH	1071661.368	1116370.876		NA	676.14		1	3/29/2006 0000	-4.7	680.84	0.00	680.84	
WW-06 MH	1072988.420	1114811.518		NA	681.89		1	3/29/2006 0000	-4.4	686.29	0.00	686.29	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type:
MH Manhole Monitoring Point
MNW Monitoring Well

Filter = ((LOGDATE=#3/29/2006#))

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TABLE 2
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MAY 2006

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev.(ft)	Product Thick.(ft)	Corrected Water Elev. (ft)	Remark
GW-03S MNW	1073812.622	1114605.762	692.61	NA	693.80	S	1	5/10/2006 1547	3.15	690.65	0.00	690.65	
GW-04S MNW	1072284.456	1114685.127	690.76	NA	692.72	S	1	5/10/2006 1613	4.87	687.85	0.00	687.85	
GW-07S MNW	1071238.157	1117666.265	697.47	NA	699.51	S	1	5/10/2006 1648	5.68	693.83	0.00	693.83	
GW-08SR MNW	1073714.172	1116786.343	695.08	NA	697.50	S	1	5/10/2006 1556	5.43	692.07	0.00	692.07	
GW-28S MNW	1073129.479	1117648.927	698.60	NA	700.95	S	1	5/10/2006 1601	7.60	693.35	0.00	693.35	
GW-29S MNW	1072552.638	1117761.993	697.50	NA	699.63	S	1	5/10/2006 1638	7.99	691.64	0.00	691.64	
GW-30S MNW	1072096.109	1117743.563	693.67	NA	696.58	S	1	5/10/2006 1633	7.59	688.99	0.00	688.99	
GW-31S MNW	1071786.280	1117191.441	695.84	NA	698.62	S	1	5/10/2006 1630	4.79	693.83	0.00	693.83	
GW-32S MNW	1071613.793	1116364.200	696.19	NA	698.37	S	1	5/10/2006 1626	4.73	693.64	0.00	693.64	
GW-33S MNW	1072165.625	1115561.866	695.94	NA	698.24	S	1	5/10/2006 1621	6.09	692.15	0.00	692.15	
GW-34S MNW	1072979.205	1114730.200	692.51	NA	694.77	S	1	5/10/2006 1541	3.19	691.58	0.00	691.58	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type:
MH Manhole Monitoring Point
MNW Monitoring Well

Filter = ((LOGDATE=#5/10/2006#))

TABLE 2
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MAY 2006

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
GW-35S MNW	1071701.925	1115985.585	696.19	NA	697.39	S	1	5/10/2006 1624	4.52	692.87	0.00	692.87	
MH-01 MH	1073806.665	1114810.501	698.62	NA	698.62	NA	1	5/10/2006 1545	11.94	686.68	0.00	686.68	
MH-03 MH	1073736.789	1115259.334	699.40	NA	699.40	NA	1	5/10/2006 1552	11.21	688.19	0.00	688.19	
MH-07 MH	1073838.229	1116243.757	696.82	NA	696.82	NA	1	5/10/2006 1554	9.42	687.40	0.00	687.40	
MH-10 MH	1073540.729	1117381.524	703.01	NA	703.01	NA	1	5/10/2006 1559	14.46	688.55	0.00	688.55	
MH-15 MH	1072531.567	1117761.125	699.02	NA	699.02	NA	1	5/10/2006 1636	14.68	684.34	0.00	684.34	
MH-16 MH	1072133.714	1117748.238	698.57	NA	698.57	NA	1	5/10/2006 1632	14.42	684.15	0.00	684.15	
MH-17 MH	1071813.137	1117180.019	702.16	NA	702.16	NA	1	5/10/2006 1629	18.11	684.05	0.00	684.05	
MH-20 MH	1071756.395	1115997.024	706.20	NA	706.20	NA	1	5/10/2006 1623	19.74	686.46	0.00	686.46	
MH-22 MH	1072158.023	1115589.309	698.05	NA	698.05	NA	1	5/10/2006 1619	9.00	689.05	0.00	689.05	
MH-25 MH	1072483.928	1114820.313	698.17	NA	698.17	NA	1	5/10/2006 1536	12.01	686.16	0.00	686.16	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type:
MH Manhole Monitoring Point
MNW Monitoring Well

Filter = ((LOGDATE=#5/10/2006#))

TABLE 2
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MAY 2006

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Specific Gravity	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
SG-01 SG	1073882.887	1114813.101		NA	690.00	S	1	5/10/2006 1546	-1.54	691.54	0.00	691.54	
SG-04 SG	1073885.249	1116237.647		NA	690.00	S	1	5/10/2006 1608	-1.75	691.75	0.00	691.75	
WW-01 MH	1073676.903	1115710.476		NA	684.02		1	5/10/2006 1700	-4.00	688.02	0.00	688.02	
WW-02 MH	1073684.724	1116792.311		NA	684.18		1	5/10/2006 1700	-4.50	688.68	0.00	688.68	
WW-03 MH	1073140.339	1117618.499		NA	683.80		1	5/10/2006 1700	-5.00	688.80	0.00	688.80	
WW-05 MH	1071661.368	1116370.876		NA	676.14		1	5/10/2006 1700	-4.40	680.54	0.00	680.54	
WW-06 MH	1072988.420	1114811.518		NA	681.89		1	5/10/2006 1700	-4.30	686.19	0.00	686.19	

NM - No Measurement

The value noted in the column labeled Specific Gravity is an assumed value for free product, if found.

Type:

MH	Manhole Monitoring Point
MNW	Monitoring Well

Filter = ((LOGDATE=#5/10/2006#))

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TABLE 3
PFOHL BROTHERS LANDFILL SITE
OVERBURDEN HYDRAULIC GRADIENT

WELL PAIR:	WW-1		*	Level	WW-2		GW-8SR	Level	WW-3		GW-28S	Level
	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference
DATE	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)
3/29/2006	689.02	688.12	---	---	689.18	688.38	692.07	3.69	688.80	688.70	694.34	5.64
5/10/2006	689.02	688.02	---	---	689.18	688.68	692.07	3.39	688.80	688.80	693.35	4.55

WELL PAIR:	WW-4		*	Level	WW-5		GW-32S	Level	WW-6		GW-34S	Level
	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference
DATE	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)
3/29/2006	681.62	683.72	---	---	681.14	680.84	694.76	13.92	686.89	686.29	691.71	5.42
5/10/2006	681.62	**	---	---	681.14	680.54	693.64	13.1	686.89	686.19	691.58	5.39

WELL PAIR:	MH-1		SG-1	Level	MH-1		GW-3S	Level	MH-15		GW-29S	Level
	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference
DATE	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)
3/29/2006	---	686.67	692.7	6.03	---	686.67	690.95	4.28	---	684.32	692.45	8.13
5/10/2006	---	686.68	691.54	4.86	---	686.68	690.65	3.97	---	684.34	691.64	7.3

WELL PAIR:	MH-16		GW-30S	Level	MH-17		GW-31S	Level	MH-20		GW-35S	Level
	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference	Set Point	Water Level	Water Level	Difference
DATE	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)
3/29/2006	---	684.15	689.28	5.13	---	684.04	695.52	11.48	---	686.95	693.84	6.89
5/10/2006	---	684.15	688.99	4.84	---	684.05	693.83	9.78	---	686.46	692.87	6.41

WELL PAIR:	MH-22		GW-33S	Level
	Set Point	Water Level	Water Level	Difference
DATE	(ft amsl)	(ft amsl)	(ft amsl)	(ft)
3/29/2006	---	689.1	692.99	3.89
5/10/2006	---	689.05	692.15	3.1

Notes:
* = No corresponding monitoring well
** = Well off-line
ft amsl = feet above mean sea level
ft = feet

APPENDIX D

GROUNDWATER PURGE AND COLLECTION LOGS

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers* Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Inspection: *May 16, 2006*

Sample I.D. Number	***Well Number***	***Well Volume (gal.)***	***Volume Purged (gal.)***	***Sample Time***	***Sample Description***	***Analysis Required***	***Chain-of-Custody Number***
GW-29S	GW-29S	2.0	2.3	12:15	Groundwater	VOCs/SVOCs/ PCBs/Metals/ Cyanide/Dioxins & Furans/Cyanide/ Gamma Spec.	
GW-33S	GW-33S	0.42	1.5	11:10	Groundwater		
GW-34S	GW-34S	1.2	2	15:15	Groundwater		
GW-4S	GW-4S	1.9	2.5	17:00	Groundwater		
GW-31S	GW-31S	0.90	2.0	18:00	Groundwater		

Additional Comments: Any wells showing the purge amount as less than 3 well volumes were purged until dry

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers* Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Inspection: *May 17, 2006*

Sample I.D. Number	***Well Number***	***Well Volume (gal.)***	***Volume Purged (gal.)***	***Sample Time***	***Sample Description***	***Analysis Required***	***Chain-of-Custody Number***
GW-7S	GW-7S	5.0	8.0	8:30	Groundwater	VOCs/SVOCs/ PCBs/Metals/ Cyanide/Dioxins & Furans/Cyanide/ Gamma Spec.	
GW-4D	GW-4D	22	47	11:40	Groundwater		
GW-3S	GW-3S	1.7	2.6	17:00	Groundwater		
GW-3S-MS	GW-3S	1.7	2.6	17:00	Matrix Spike		
GW-3S-MSD	GW-3S	1.7	2.6	17:00	Matrix Spike Duplicate		
GW-3D	GW-3D	22	67	17:40	Groundwater		
20060517-TB1	---	---	---	---	Trip Blank	VOCs	

Additional Comments: Any wells showing the purge amount as less than 3 well volumes were purged until dry

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers* Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Inspection: *May 18, 2006*

Sample I.D. Number	***Well Number***	***Well Volume (gal.)***	***Volume Purged (gal.)***	***Sample Time***	***Sample Description***	***Analysis Required***	***Chain-of-Custody Number***
GW-7D	GW-7D	21	23.0	7:45	Groundwater	VOCs/SVOCs/ PCBs/Metals/ Cyanide/Dioxins & Furans/Cyanide/ Gamma Spec.	
GW-28S	GW-28S	1.3	2.5	9:25	Groundwater		
GW-8D	GW-8D	20	64	10:35	Groundwater		
GW-8SR	GW-8SR	1.2	2.5	11:40	Groundwater		
GW-30S	GW-30S	1.70	3.0	13:25	Groundwater		
GW-32S	GW-32S	0.90	2.0	14:30	Groundwater		
GW-26D	GW-26D	23	68	15:55	Groundwater		
GW-27D	GW-26D	23	68	15:55	Field Duplicate		

Additional Comments: Any wells showing the purge amount as less than 3 well volumes were purged until dry

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers* Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Inspection: *May 18, 2006*

Sample I.D. Number	***Well Number***	***Well Volume (gal.)***	***Volume Purged (gal.)***	***Sample Time***	***Sample Description***	***Analysis Required***	***Chain-of-Custody Number***
GW-35S	GW-35S	0.53	1.5	16:48	Groundwater	VOCs/SVOCs/ PCBs/Metals/ Cyanide/Dioxins & Furans/Cyanide/ Gamma Spec.	
GW-1S	GW-1S	1.5	3.2	18:40	Groundwater		
GW-1D	GW-1D	24	73	18:50	Groundwater		
20060518-TB1	---	---	---	---	Trip Blank	VOCs	

Additional Comments: Any wells showing the purge amount as less than 3 well volumes were purged until dry

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers* Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Inspection: *May 19, 2006*

Sample I.D. Number	***Well Number***	***Well Volume (gal.)***	***Volume Purged (gal.)***	***Sample Time***	***Sample Description***	***Analysis Required***	***Chain-of-Custody Number***
GW-6D	GW-6D	16	16	16:20	Groundwater	VOCs/SVOCs/ PCBs/Metals/ Cyanide/Dioxins & Furans/Cyanide/ Gamma Spec.	
20060519-TB1	---	---	---	---	Trip Blank	VOCs	

Additional Comments: Any wells showing the purge amount as less than 3 well volumes were purged until dry

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-1S

Date: 5/18/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 2.45' Depth to Well Bottom: 11.89' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 5.8 Estimated Purge Volume (liters): 12.0

Sample ID: GW-1S Sample Time: 18:40 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
18:10	-	-	1690	64			450	2.45'
18:15	-	-	1980	17			450	4.18'
18:20	-	-	-	10			375	4.23'
18:30	-	-	3000	18			375	4.25'
18:35	-	-	3100	14			375	4.25'
18:40	-	-	3200	12			375	4.25'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: pH and temperature meters malfunctioning.

WELL PURGING LOG

URS Corporation

SITE NAME: Pfohl Brothers Landfill WELL NO.: GW-1D

PROJECT NO.: 11172700.00004

STAFF: A. Brayman, R. Piurek

DATE(S): May 18, 2006

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	39.65	1"	0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	2.99	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	36.66	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.66	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	24.2	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	72.6	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	73	8"	2.60

$V=0.0408 \times (\text{CASING DIAMETER [INCHES]})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	0	10	20	30	40	50	60	70	Sample		
pH	7.3	7.1	6.9	6.7	6.6	-	-	-			
SPEC. COND. (umhos)	770	750	760	910	910	930	1,030	1,020	1,200		
TEMPERATURE (^{0}C)	-	-	-	-	-	-	-	-	-		
TURBIDITY (NTU)	11	6	3	2	2	2	3	3	31		

COMMENTS:

Well purged with dedicated submersible pump & tubing, slight H2S odor. Sampled using dedicated stainless steel bailer.
pH and temperature meters malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-3S

Date: 5/17/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 2.74' Depth to Well Bottom: 13.23' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 6.5 Estimated Purge Volume (liters): 10.0

Sample ID: GW-3S Sample Time: 16:55 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
16:20	7.0	13.3	860	22			400	2.74'
16:30	7.1	-	830	20			400	7.05'
16:40	7.1	-	790	11			200	6.95'
16:50	7.0	11.7	740	5			200	7.00'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

WELL PURGING LOG

URS Corporation

SITE NAME: Pfohl Brothers Landfill WELL NO.: GW-3D

PROJECT NO.: 11172700.00004

STAFF: A. Brayman, R. Piurek

DATE(S): May 17, 2006

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	35.71	1"	0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	1.92	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	33.79	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.66	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	22.3	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	66.9	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	67	8"	2.60

$V=0.0408 \times (\text{CASING DIAMETER [INCHES]})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	0	10	20	30	40	50	60	Sample			
pH	6.9	6.9	7.0	7.0	7.1	7.1	7.1	7.1			
SPEC. COND. (umhos)	960	1,010	1,120	1,070	1,110	1,090	1,090	1,090			
TEMPERATURE (^{0}C)	11.9	10.5	-	11.3	11.6	10.6	11.6	10.7			
TURBIDITY (NTU)	5	3	83	44	14	14	11	9			

COMMENTS:

Well purged using dedicated submersible pump and tubing. Pump broke and finished purging and sampling with dedicated stainless steel bailer. pH and temperature meters malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-4S

Date: 5/16/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.71' Depth to Well Bottom: 16.48' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 7.3 Estimated Purge Volume (liters): 9.3

Sample ID: GW-4S Sample Time: 17:00 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
16:15	8.89	11.8	-	149			400	4.71'
16:20	8.63	11.0	-	65			325	7.11'
16:25	8.55	10.4	-	55			325	7.98'
16:30	8.36	10.1	-	42			200	8.80'
16:35	8.41	10.0	-	21			200	9.98'
16:40	8.34	10.2	-	25			200	10.60'
16:45	8.31	10.3	-	17			200	11.32'
16:50	8.22	10.2	-	12			200	11.85'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Specific conductivity meter malfunctioning.

WELL PURGING LOG

URS Corporation

SITE NAME: Pfohl Brothers Landfill WELL NO.: GW-4D

PROJECT NO.: 11172700.00003

STAFF: A. Brayman, R. Piurek

DATE(S): May 16, 2006

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	45.36	1"	0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.71	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	32.65	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.66	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	21.5	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	64.6	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	47	8"	2.60

$V=0.0408 \times (\text{CASING DIAMETER [INCHES]})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	0	5	10	15	20	25	30	35	40	45	
pH	8.16	8.02	7.96	7.65	7.54	7.47	7.37	7.35	-	-	
SPEC. COND. (umhos)	-	-	-	-	-	-	-	-	-	-	
TEMPERATURE (^{0}C)	9.5	10.0	10.2	10.5	10.6	10.2	10.4	10.6	-	-	
TURBIDITY (NTU)	6	19	59	69	203	359	701	>1000	>1000	>1000	

COMMENTS:

Well purged with dedicated stainless steel bailer. Well went dry after removing about 47 gallons. Slight H2S odor. Return next day to sample with bailer. pH, temperature and specific conductivity meters malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-4S

Date: 5/16/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.71' Depth to Well Bottom: 16.48' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 7.3 Estimated Purge Volume (liters): 9.3

Sample ID: GW-4S Sample Time: 17:00 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
16:15	8.89	11.8	-	149			400	4.71'
16:20	8.63	11.0	-	65			325	7.11'
16:25	8.55	10.4	-	55			325	7.98'
16:30	8.36	10.1	-	42			200	8.80'
16:35	8.41	10.0	-	21			200	9.98'
16:40	8.34	10.2	-	25			200	10.60'
16:45	8.31	10.3	-	17			200	11.32'
16:50	8.22	10.2	-	12			200	11.85'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Specific conductivity meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-6D

Date: 5/19/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 1.16 Depth to Well Bottom: 25.12 Well Diameter: 4" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 59.2 Estimated Purge Volume (liters): 60.0

Sample ID: GW-6D Sample Time: 16:20 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
15:15	-	-	1400	429			-	1.16
15:25	-	-	1900	16			950	1.69
15:35	-	-	2000	13			960	1.75
15:45	-	-	1900	10			960	1.75
15:55	-	-	1900	13			900	1.59
16:05	-	-	2000	13			380	1.44
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: pH and temperature meters malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-4S

Date: 5/16/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.71' Depth to Well Bottom: 16.48' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 7.3 Estimated Purge Volume (liters): 9.3

Sample ID: GW-4S Sample Time: 17:00 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
16:15	8.89	11.8	-	149			400	4.71'
16:20	8.63	11.0	-	65			325	7.11'
16:25	8.55	10.4	-	55			325	7.98'
16:30	8.36	10.1	-	42			200	8.80'
16:35	8.41	10.0	-	21			200	9.98'
16:40	8.34	10.2	-	25			200	10.60'
16:45	8.31	10.3	-	17			200	11.32'
16:50	8.22	10.2	-	12			200	11.85'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Specific conductivity meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-6D

Date: 5/19/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 1.16 Depth to Well Bottom: 25.12 Well Diameter: 4" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 59.2 Estimated Purge Volume (liters): 60.0

Sample ID: GW-6D Sample Time: 16:20 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
15:15	-	-	1400	429			-	1.16
15:25	-	-	1900	16			950	1.69
15:35	-	-	2000	13			960	1.75
15:45	-	-	1900	10			960	1.75
15:55	-	-	1900	13			900	1.59
16:05	-	-	2000	13			380	1.44
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: pH and temperature meters malfunctioning.

WELL PURGING LOG

URS Corporation

SITE NAME: Pfohl Brothers Landfill WELL NO.: GW-7S

PROJECT NO.: 11172700.00004

STAFF: A. Brayman, R. Piurek

DATE(S): May 16, 2006

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	35.23	1"	0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	5.83	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	29.40	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	5.0	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	15.0	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	8	8"	2.60

$V=0.0408 \times (\text{CASING DIAMETER [INCHES]})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	0	2	4	6	8						
pH	8.08	8.18	8.27	8.22	8.14						
SPEC. COND. (umhos)	-	-	-	-	-						
TEMPERATURE (^{0}C)	10.1	10.0	10.2	10.4	10.7						
TURBIDITY (NTU)	90	504	693	>1000	>1000						

COMMENTS:

Purged with dedicated stainless steel bailer. Well went dry after removing about 8 gallons. Return on 5/17/06 and sample with dedicated stainless steel bailer. Specific conductivity meter malfunctioning.

WELL PURGING LOG

URS Corporation

SITE NAME: Pfohl Brothers Landfill WELL NO.: GW-7D

PROJECT NO.: 11172700.00004

STAFF: A. Brayman, R. Piurek

DATE(S): May 16, 2006

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	63.10	1"	0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	31.28	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	31.82	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.66	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	21.0	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	63.0	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	23	8"	2.60

$V=0.0408 \times (\text{CASING DIAMETER [INCHES]})^2$

	ACCUMULATED VOLUME PURGED (GALLONS)										
PARAMETERS	0	5	10	15	20						
pH	8.00	7.84	8.10	8.05	8.15						
SPEC. COND. (umhos)	160	-	-	-	-						
TEMPERATURE (^{0}C)	12.1	11.8	10.8	11.2	11.4						
TURBIDITY (NTU)	9.28	30	72	245	408						

COMMENTS:

Purged with dedicated stainless steel bailer. Well went dry after about 23 gallons. Return on 5/18/06 and sample with dedicated stainless steel bailer. Specific conductivity meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-8SR

Date: 5/18/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.41' Depth to Well Bottom: 13.04' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 4.7 Estimated Purge Volume (liters): 9.5

Sample ID: GW-8SR Sample Time: 11:40 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
11:00	6.9	-	1050	>1000			500	5.41'
11:05	7.0	-	970	>1000			380	7.91'
11:10	6.9	-	1060	>1000			290	8.26'
11:15	6.9	-	950	632			290	8.35'
11:20	6.9	-	1020	276			275	8.36'
11:25	6.9	-	970	136			280	8.41'
11:30	6.9	-	980	93			270	8.44'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Temperature meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-28S

Date: 5/18/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.48' Depth to Well Bottom: 15.58' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 5.0 Estimated Purge Volume (liters): 9.5

Sample ID: GW-28S Sample Time: 9:25 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
8:54	7.1	-	840	130			475	7.48'
8:59	7.1	-	820	49			350	9.15'
9:04	7.1	-	860	20			350	9.36'
9:09	7.1	-	860	19			300	9.54'
9:14	7.1	-	870	14			300	9.60'
9:19	7.0	-	890	12			290	9.67'
9:24	7.0	-	940	8			300	9.71'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Temperature meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-29S

Date: 5/16/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.74' Depth to Well Bottom: 20.21' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 7.7 Estimated Purge Volume (liters): 8.8

Sample ID: GW-29S Sample Time: 12:15 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
11:49	7.95	11.2	-	492			350	7.74'
11:54	7.71	9.8	-	221			350	10.49'
11:59	7.77	9.8	-	67			350	11.25'
12:04	7.74	9.7	-	40			350	12.30'
12:09	7.68	9.8	-	18			350	12.85'
12:14	7.61	9.8	-	13			350	13.22'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Specific conductivity meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-31S

Date: 5/16/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.29' Depth to Well Bottom: 9.78' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 3.4 Estimated Purge Volume (liters): 7.6

Sample ID: GW-31S Sample Time: 18:00 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
13:00	7.39	12.6	-	48			200	4.29'
13:05	7.39	12.2	-	18			200	6.62'
13:10	7.46	12.7	-	20			200	7.18'
13:15	7.42	12.3	-	9			200	7.68'
13:20	7.51	13.0	-	9			200	8.35'
13:25	7.43	12.1	-	24			200	8.95'
13:30	7.38	12.2	-	17			200	9.20'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Specific conductivity meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-30S

Date: 5/18/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.55' Depth to Well Bottom: 18.00' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 6.4 Estimated Purge Volume (liters): 11.4

Sample ID: GW-30S Sample Time: 13:25 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
12:58	7.0	-	1890	19			400	7.55'
13:03	7.0	-	1740	9			435	7.61'
13:08	7.0	-	1900	5			415	7.60'
13:13	6.9	-	1720	2			415	7.59'
13:18	6.9	-	1590	3			350	7.60'
13:23	6.9	-	1510	3			345	7.59'
13:25	7.0	-	1190	-			-	7.55'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Temperature meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-32S

Date: 5/18/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.49' Depth to Well Bottom: 9.92' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 3.4 Estimated Purge Volume (liters): 7.6

Sample ID: GW-32S Sample Time: 14:30 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
13:59	7.4	-	660	37			400	4.49'
14:04	7.6	-	530	30			430	5.54'
14:09	7.6	-	540	12			435	5.78'
14:14	7.5	-	540	5			480	5.92'
14:19	7.5	-	550	4			500	6.02'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Temperature meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-33S

Date: 5/16/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.75' Depth to Well Bottom: 8.40' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 1.6 Estimated Purge Volume (liters): 5.7

Sample ID: GW-33S Sample Time: 11:10 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
10:54	7.80	10.9	-	12			-	5.75'
11:00	7.52	10.7	-	2			-	7.41'
11:03	7.44	10.6	-	1			450	7.78'
11:06	7.39	10.5	-	4			300	8.08'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Specific conductivity meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-34S

Date: 5/16/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 2.66' Depth to Well Bottom: 10.21' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 4.7 Estimated Purge Volume (liters): 7.6

Sample ID: GW-34S Sample Time: 15:15 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
14:35	7.32	10.9	-	169			500	2.61'
14:40	7.21	11.4	-	78			350	5.02'
14:45	7.24	10.8	-	47			350	5.49'
14:50	7.25	10.6	-	24			350	5.50'
14:55	7.23	11.0		9			350	5.13'
15:05	7.43	10.7	-	16			400	5.25'
15:10	7.22	10.4	-	10			350	5.53'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Specific conductivity meter malfunctioning.

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-35S

Date: 5/18/2006 Sampling Personnel: Andy Brayman, Rob Piurek Company: URS Corporation

Purging/Sampling Device: Geopump 2 Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.27' Depth to Well Bottom: 7.45' Well Diameter: 2" Screen Length:

Casing Type: Stainless Steel Volume in 1 Well Casing (liters): 2.0 Estimated Purge Volume (liters): 5.8

Sample ID: GW-35S Sample Time: 16:48 QA/QC: None

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (umhos)	TURB. (NTU)			FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
16:25	7.2	-	490	10			325	4.27'
16:30	7.2	-	460	7			275	5.15'
16:35	7.2	-	470	4			275	5.24'
16:40	7.1	-	480	2			275	5.26'
16:45	7.1	-	490	1			275	5.30'
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Temperature meter malfunctioning.

APPENDIX E

HISTORICAL ANALYTICAL RESULTS

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01D	GW-01D	GW-01D	GW-01D	GW-01D
Sample ID				GW-1D-012204	GW-01D	GW-1D	GW-1D	GW-01D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-				NA	NA
1,2-Dichloroethene (total)	UG/L	5	-	NA	NA	NA		
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-				0.16 J	
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-				0.14 J	
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

J - The analyte was positively identified, the quantitation is an estimation.
J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.
J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
NA - Not Analyzed; U - Not detected above the reported quantitation limit.; R - The data is rejected.

Only Detected Results Reported.

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01D	GW-01D	GW-01D	GW-01D	GW-01D
Sample ID				GW-1D-012204	GW-01D	GW-1D	GW-1D	GW-01D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-	2 J				
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA			NA	NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA			NA	NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA			NA	NA
Total TCDF	NG/L	-	-	NA			NA	NA
Metals								
Aluminum	MG/L	-	-		0.025 J+			
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

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Concentration Exceeds (2)

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J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.
J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
NA - Not Analyzed; U - Not detected above the reported quantitation limit.; R - The data is rejected.

Only Detected Results Reported.

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01D	GW-01D	GW-01D	GW-01D	GW-01D
Sample ID				GW-1D-012204	GW-01D	GW-1D	GW-1D	GW-01D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-					
Barium	MG/L	1	-	0.050	0.052	0.054	0.056	0.055
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	110	106	101	110	117
Chromium	MG/L	0.05	-	0.034			0.037 J-	0.048 J+
Cobalt	MG/L	-	-					
Copper	MG/L	0.2	-	0.072		0.015	0.037	0.022
Iron	MG/L	0.3	-	0.985	0.161	0.456	5.9 J-	10.8
Lead	MG/L	0.025	-	0.006				
Magnesium	MG/L	35	-	38.5	34.8	39.4	38.8	40.5
Manganese	MG/L	0.3	-	0.027	0.017	0.020	0.10	0.088
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.035			0.025	0.012
Potassium	MG/L	-	-	2.85	2.41	2.54	2.8	2.7
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	60.9	74.2	81.3	74.8	69.1
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-	0.037				0.015
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270		NA		NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

J - The analyte was positively identified, the quantitation is an estimation.
J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.
J- - The analyte was positively identified, the quantitation is an estimation with possible low bias.
NA - Not Analyzed; U - Not detected above the reported quantitation limit.; R - The data is rejected.

Only Detected Results Reported.

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01D	GW-01D	GW-01D	GW-01D	GW-01D
Sample ID				GW-1D-012204	GW-01D	GW-1D	GW-1D	GW-01D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520		NA		NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA		NA	
Bismuth 214 (Soluble)	PCI/L	-	18900		NA		NA	
Cesium 134 (Insoluble)	PCI/L	-	80	1.75	NA		NA	
Cesium 137 (Soluble)	PCI/L	-	200		NA		NA	
Lead 212 (Insoluble)	PCI/L	-	123		NA		NA	
Lead 214 (Insoluble)	PCI/L	-	11800		NA		NA	
Lead 214 (Soluble)	PCI/L	-	11800		NA		NA	
Potassium 40 (Insoluble)	PCI/L	-	-		NA		NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA		NA	
Thorium 234 (Insoluble)	PCI/L	-	401		NA		NA	
Uranium 235 (Insoluble)	PCI/L	-	-		NA		NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01S	GW-01S	GW-01S	GW-01S	GW-01S
Sample ID				GW-1S-012104	GW-01S	GW-1S	GW-1S	GW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-				NA	NA
1,2-Dichloroethene (total)	UG/L	5	-	NA	NA	NA		
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01S	GW-01S	GW-01S	GW-01S	GW-01S
Sample ID				GW-1S-012104	GW-01S	GW-1S	GW-1S	GW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-			4	3 J	
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA			NA	NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA			NA	NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA			NA	NA
Total TCDF	NG/L	-	-	NA			NA	NA
Metals								
Aluminum	MG/L	-	-	3.59 J+	0.026 J+	0.331		
Antimony	MG/L	0.003	-					

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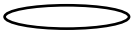

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01S	GW-01S	GW-01S	GW-01S	GW-01S
Sample ID				GW-1S-012104	GW-01S	GW-1S	GW-1S	GW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-	0.009				
Barium	MG/L	1	-	0.247	0.279	0.310	0.30	0.33
Cadmium	MG/L	0.005	-			0.001		
Calcium	MG/L	-	-	220	183	196	237	238
Chromium	MG/L	0.05	-	0.087		0.037		0.016 J+
Cobalt	MG/L	-	-					
Copper	MG/L	0.2	-	0.069		0.037		
Iron	MG/L	0.3	-	9.27	4.17	16.6	7.6 J-	52.7
Lead	MG/L	0.025	-	0.009				
Magnesium	MG/L	35	-	38.6	26.7	35	39.1	40.9
Manganese	MG/L	0.3	-	1.07	0.788	1.17	0.76	0.96
Mercury	MG/L	7.00E-04	-		2.00E-04			
Nickel	MG/L	0.1	-	0.062	0.01	0.026		0.012
Potassium	MG/L	-	-	3.24	3.70	2.84	2.8	2.7
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	449	394	565	321	385
Vanadium	MG/L	-	-	0.006				
Zinc	MG/L	2	-	0.090	0.016	0.05 J+		0.022
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270		NA		NA	

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01S	GW-01S	GW-01S	GW-01S	GW-01S
Sample ID				GW-1S-012104	GW-01S	GW-1S	GW-1S	GW-01S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	10/02/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520		NA		NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA		NA	
Bismuth 214 (Soluble)	PCI/L	-	18900		NA		NA	
Cesium 134 (Insoluble)	PCI/L	-	80		NA		NA	
Cesium 137 (Soluble)	PCI/L	-	200		NA		NA	
Lead 212 (Insoluble)	PCI/L	-	123		NA		NA	
Lead 214 (Insoluble)	PCI/L	-	11800		NA		NA	
Lead 214 (Soluble)	PCI/L	-	11800		NA		NA	
Potassium 40 (Insoluble)	PCI/L	-	-	29.8	NA		NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA		NA	
Thorium 234 (Insoluble)	PCI/L	-	401		NA	8.01E+01	NA	
Uranium 235 (Insoluble)	PCI/L	-	-		NA		NA	

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TABLE 1
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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03D	GW-03D	GW-03D	GW-03D	GW-03D
Sample ID				GW-3D-012204	GW-3DD-012204	GW-3D	GW-3D	GW-3D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	01/22/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	0.7 J		1	2	NA
1,2-Dichloroethene (total)	UG/L	5	-	NA	NA	NA	NA	0.72 J
Acetone	UG/L	50	-		5 J	12 U		
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-	1	1	2		0.58 J
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-			1		
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-			1	1	0.55 J
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	3	3		2	
1,4-Dichlorobenzene	UG/L	3	-	5	5		3	2 J
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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Location ID				GW-03D	GW-03D	GW-03D	GW-03D	GW-03D
Sample ID				GW-3D-012204	GW-3DD-012204	GW-3D	GW-3D	GW-3D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	01/22/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA			NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA			NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA	NA			NA
Total TCDF	NG/L	-	-	NA	NA			NA
Metals								
Aluminum	MG/L	-	-	0.480 J+	0.496 J+			0.80
Antimony	MG/L	0.003	-					

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Sample ID				GW-3D-012204	GW-3DD-012204	GW-3D	GW-3D	GW-3D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	01/22/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Metals								
Arsenic	MG/L	0.025	-	0.011	0.010			
Barium	MG/L	1	-	0.112	0.113	0.102	0.143	0.099
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	125	125	110	138	109
Chromium	MG/L	0.05	-	0.239	0.243			0.14 J-
Cobalt	MG/L	-	-					7.20E-03
Copper	MG/L	0.2	-	0.041	0.030			0.035
Iron	MG/L	0.3	-	8.12	8.35	1.46	3.1	6.0 J-
Lead	MG/L	0.025	-		0.004	0.045		
Magnesium	MG/L	35	-	19.7	19.7	18.1	26.2	20.7
Manganese	MG/L	0.3	-	0.670	0.675	0.599	1.31	0.68
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.027	0.027	0.005	0.007	0.068
Potassium	MG/L	-	-	3.69	3.73	4.17	5.48	5.5
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	199	202	268	306	232
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-	0.013				
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270			NA		NA

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Sample ID				GW-3D-012204	GW-3DD-012204	GW-3D	GW-3D	GW-3D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	01/22/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520			NA		NA
Bismuth 214 (Insoluble)	PCI/L	-	18900			NA		NA
Bismuth 214 (Soluble)	PCI/L	-	18900	51.9	67.2	NA		NA
Cesium 134 (Insoluble)	PCI/L	-	80			NA		NA
Cesium 137 (Soluble)	PCI/L	-	200			NA		NA
Lead 212 (Insoluble)	PCI/L	-	123			NA		NA
Lead 214 (Insoluble)	PCI/L	-	11800			NA		NA
Lead 214 (Soluble)	PCI/L	-	11800	46.5	66.8	NA		NA
Potassium 40 (Insoluble)	PCI/L	-	-			NA		NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05			NA		NA
Thorium 234 (Insoluble)	PCI/L	-	401			NA		NA
Uranium 235 (Insoluble)	PCI/L	-	-			NA		NA

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Location ID				GW-03D	GW-03S	GW-03S	GW-03S	GW-03S
Sample ID				GW-03D	GW-3S-012004	GW-3S	GW-3S	GW-3S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	09/29/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA				NA
1,2-Dichloroethene (total)	UG/L	5	-	1.3 J	NA	NA	NA	
Acetone	UG/L	50	-		2.8 J			
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-	0.77 J				
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-			1		
Vinyl chloride	UG/L	2	-	0.87 J				
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	2 J				
1,4-Dichlorobenzene	UG/L	3	-	3 J				
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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Sample ID				GW-03D	GW-3S-012004	GW-3S	GW-3S	GW-3S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	09/29/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA			NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA			NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA	NA			NA
Total TCDF	NG/L	-	-	NA	NA			NA
Metals								
Aluminum	MG/L	-	-		1.56 J+	0.157 J+	0.259	
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03D	GW-03S	GW-03S	GW-03S	GW-03S
Sample ID				GW-03D	GW-3S-012004	GW-3S	GW-3S	GW-3S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	09/29/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-					
Barium	MG/L	1	-	0.13	0.217	0.237	0.177	0.25
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	150	105	109	91	127
Chromium	MG/L	0.05	-	0.020 J+	0.015		0.006	
Cobalt	MG/L	-	-					
Copper	MG/L	0.2	-		0.057		0.014	
Iron	MG/L	0.3	-	3.4	5.53	11.8	16.2	18.1 J-
Lead	MG/L	0.025	-		0.006			
Magnesium	MG/L	35	-	23.8	71.9	76.1	75.5	75.1
Manganese	MG/L	0.3	-	1.1	0.318	0.362	0.348	0.28
Mercury	MG/L	7.00E-04	-		8.00E-04			
Nickel	MG/L	0.1	-		0.018	0.007	0.051	0.012
Potassium	MG/L	-	-	4.5	3.71	3.11	2.62	2.8
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	259	28.0	29.3	27.1	53.1
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-	0.014	0.095	0.034	0.028 J	
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA		NA		NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03D	GW-03S	GW-03S	GW-03S	GW-03S
Sample ID				GW-03D	GW-3S-012004	GW-3S	GW-3S	GW-3S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	09/29/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA		NA		NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA		NA		NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	27.2	NA		NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA		NA		NA
Cesium 137 (Soluble)	PCI/L	-	200	NA		NA		NA
Lead 212 (Insoluble)	PCI/L	-	123	NA		NA		NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA		NA		NA
Lead 214 (Soluble)	PCI/L	-	11800	NA	41.5	NA		NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA		NA		NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA		NA		NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA		NA		NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA		NA		NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03S	GW-04D	GW-04D	GW-04D	GW-04D
Sample ID				GW-03S	GW-4D-012304	GW-04D	GW-4D	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/23/04	10/02/04	05/04/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA				NA
1,2-Dichloroethene (total)	UG/L	5	-		NA	NA	NA	
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					0.21 J
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					0.26 J
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03S	GW-04D	GW-04D	GW-04D	GW-04D
Sample ID				GW-03S	GW-4D-012304	GW-04D	GW-4D	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/23/04	10/02/04	05/04/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					3 J
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-		5 J			
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA			NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA			NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA	NA			NA
Total TCDF	NG/L	-	-	NA	NA			NA
Metals								
Aluminum	MG/L	-	-	0.68	10.0 J+	1.08	0.448	0.26
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03S	GW-04D	GW-04D	GW-04D	GW-04D
Sample ID				GW-03S	GW-4D-012304	GW-04D	GW-4D	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/23/04	10/02/04	05/04/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-		0.011			
Barium	MG/L	1	-	0.21	0.136	0.070	0.061	0.053
Cadmium	MG/L	0.005	-	1.10E-03				
Calcium	MG/L	-	-	119	208	183	120	117
Chromium	MG/L	0.05	-	1.2 J+	0.655	0.026	0.175	0.019 J-
Cobalt	MG/L	-	-	4.30E-03	0.017			
Copper	MG/L	0.2	-	0.017	0.178		0.016	
Iron	MG/L	0.3	-	6.0	88.8	3.07	2.56	1.6 J-
Lead	MG/L	0.025	-	5.30E-03	0.020			
Magnesium	MG/L	35	-	78.6	57.3	58.8	56.0	55.3
Manganese	MG/L	0.3	-	0.37	0.571	0.066	0.053	0.035
Mercury	MG/L	7.00E-04	-			2.00E-04		
Nickel	MG/L	0.1	-	0.099	0.388	0.01	0.072	0.023
Potassium	MG/L	-	-	2.7	14.4	3.53	4.41	3.2
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	43.1	68.2	59.5	63.0	54.5
Vanadium	MG/L	-	-	5.80E-03	0.023			
Zinc	MG/L	2	-	0.097	0.544	0.023		
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270			NA		NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03S	GW-04D	GW-04D	GW-04D	GW-04D
Sample ID				GW-03S	GW-4D-012304	GW-04D	GW-4D	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/23/04	10/02/04	05/04/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520			NA		NA
Bismuth 214 (Insoluble)	PCI/L	-	18900			NA		NA
Bismuth 214 (Soluble)	PCI/L	-	18900		22.1	NA	3.43E+01	NA
Cesium 134 (Insoluble)	PCI/L	-	80			NA		NA
Cesium 137 (Soluble)	PCI/L	-	200			NA		NA
Lead 212 (Insoluble)	PCI/L	-	123			NA		NA
Lead 214 (Insoluble)	PCI/L	-	11800			NA		NA
Lead 214 (Soluble)	PCI/L	-	11800			NA	1.72E+01	NA
Potassium 40 (Insoluble)	PCI/L	-	-			NA		NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05			NA		NA
Thorium 234 (Insoluble)	PCI/L	-	401			NA		NA
Uranium 235 (Insoluble)	PCI/L	-	-			NA		NA

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04D	GW-04S	GW-04S	GW-04S	GW-04S
Sample ID				GW-04D	GW-4S-012004	GW-04S	GW-4S	GW-4S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	10/01/04	05/04/05	09/20/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA				NA
1,2-Dichloroethene (total)	UG/L	5	-		NA	NA	NA	
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Sample ID				GW-04D	GW-4S-012004	GW-04S	GW-4S	GW-4S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	10/01/04	05/04/05	09/20/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA			NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA		0.015 J	NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA	NA		0.015 J	NA
Total TCDF	NG/L	-	-	NA	NA			NA
Metals								
Aluminum	MG/L	-	-	0.68	4.00 J+	0.050 J+		0.34
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Sample ID				GW-04D	GW-4S-012004	GW-04S	GW-4S	GW-4S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	10/01/04	05/04/05	09/20/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-		0.010		0.009	
Barium	MG/L	1	-	0.057	0.174	0.101	0.096	0.10
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	123	60.6	38.0	36.7	39.6
Chromium	MG/L	0.05	-	0.014 J+	0.053			9.30E-03 J-
Cobalt	MG/L	-	-		0.010	0.007		
Copper	MG/L	0.2	-		0.054			
Iron	MG/L	0.3	-	2.1	9.61	3.12	2.35	1.5 J-
Lead	MG/L	0.025	-		0.011			
Magnesium	MG/L	35	-	56.6	31.6	22.4	22.0	23.3
Manganese	MG/L	0.3	-	0.038	0.456	0.359	0.286	0.26
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.023	0.039	0.09	0.013	0.015
Potassium	MG/L	-	-	3.2	6.36	3.22	3.05	2.6
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	53.2	43.3	34.8	32.8	27.4
Vanadium	MG/L	-	-		0.008			
Zinc	MG/L	2	-		0.083	0.030	0.057	0.021
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270			NA		NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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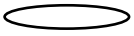

Concentration Exceeds (1)

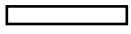

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04D	GW-04S	GW-04S	GW-04S	GW-04S
Sample ID				GW-04D	GW-4S-012004	GW-04S	GW-4S	GW-4S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/17/06	01/20/04	10/01/04	05/04/05	09/20/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520			NA		NA
Bismuth 214 (Insoluble)	PCI/L	-	18900			NA		NA
Bismuth 214 (Soluble)	PCI/L	-	18900			NA	4.55E+01	NA
Cesium 134 (Insoluble)	PCI/L	-	80			NA		NA
Cesium 137 (Soluble)	PCI/L	-	200			NA		NA
Lead 212 (Insoluble)	PCI/L	-	123			NA		NA
Lead 214 (Insoluble)	PCI/L	-	11800			NA		NA
Lead 214 (Soluble)	PCI/L	-	11800			NA	2.14E+01	NA
Potassium 40 (Insoluble)	PCI/L	-	-			NA		NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05			NA		NA
Thorium 234 (Insoluble)	PCI/L	-	401			NA		NA
Uranium 235 (Insoluble)	PCI/L	-	-			NA		NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04S	GW-06D	GW-07D	GW-07D	GW-07D
Sample ID				GW-04S	GW-06D	GW-7D-012304	GW-07D	GW-7D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	05/19/06	01/23/04	10/03/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA	NA			
1,2-Dichloroethene (total)	UG/L	5	-			NA	NA	NA
Acetone	UG/L	50	-			7 J	26	14
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-		12 J			
Benzo(a)anthracene	UG/L	0.002	-		20 J			
Benzo(a)pyrene	UG/L	ND	-		17 J			
Benzo(b)fluoranthene	UG/L	0.002	-		23 J			
Benzo(g,h,i)perylene	UG/L	-	-		11 J			

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04S	GW-06D	GW-07D	GW-07D	GW-07D
Sample ID				GW-04S	GW-06D	GW-7D-012304	GW-07D	GW-7D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	05/19/06	01/23/04	10/03/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-		7 J			
bis(2-Ethylhexyl)phthalate	UG/L	5	-					11
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-		17 J			
Diethylphthalate	UG/L	50	-					3
Fluoranthene	UG/L	50	-		52 J			
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-		10 J			
Phenanthrene	UG/L	50	-		35 J			
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-		40 J			
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA	NA		
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA	NA		
2,3,7,8-TCDF	NG/L	0.007	-					3.40E-03 J
Total HpCDF	NG/L	-	-	NA	NA	NA		
Total TCDF	NG/L	-	-	NA	NA	NA		6.40E-03 J
Metals								
Aluminum	MG/L	-	-	2.3		2.32 J+	0.278	0.086
Antimony	MG/L	0.003	-			0.008		

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04S	GW-06D	GW-07D	GW-07D	GW-07D
Sample ID				GW-04S	GW-06D	GW-7D-012304	GW-07D	GW-7D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	05/19/06	01/23/04	10/03/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-	0.014				
Barium	MG/L	1	-	0.18	0.11	0.173	0.047	0.028
Cadmium	MG/L	0.005	-	2.60E-03				
Calcium	MG/L	-	-	51.5	143	85.9	42.5	28.7
Chromium	MG/L	0.05	-	0.26 J+	0.14 J+	0.064	0.013	0.018
Cobalt	MG/L	-	-	6.10E-03				
Copper	MG/L	0.2	-	0.021		0.080	0.010	
Iron	MG/L	0.3	-	12.1	0.54	9.29	1.89	0.379
Lead	MG/L	0.025	-	5.40E-03		0.756	0.082	0.020
Magnesium	MG/L	35	-	28.5	34.1	15.1	3.92	7.25
Manganese	MG/L	0.3	-	0.48	0.035	0.181	0.026	0.008
Mercury	MG/L	7.00E-04	-	2.20E-04			2.00E-04	
Nickel	MG/L	0.1	-	0.086		0.052	0.04	0.016
Potassium	MG/L	-	-	5.2	2.9	12.4	8.23	8.10
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	36.4	200	77.7	78.1	81.7
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-	0.39	0.020	0.383	0.163	0.015
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270				NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04S	GW-06D	GW-07D	GW-07D	GW-07D
Sample ID				GW-04S	GW-06D	GW-7D-012304	GW-07D	GW-7D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	05/19/06	01/23/04	10/03/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520				NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900				NA	
Bismuth 214 (Soluble)	PCI/L	-	18900			82.0	NA	
Cesium 134 (Insoluble)	PCI/L	-	80				NA	
Cesium 137 (Soluble)	PCI/L	-	200				NA	
Lead 212 (Insoluble)	PCI/L	-	123				NA	
Lead 214 (Insoluble)	PCI/L	-	11800				NA	
Lead 214 (Soluble)	PCI/L	-	11800			35.7	NA	
Potassium 40 (Insoluble)	PCI/L	-	-				NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05				NA	
Thorium 234 (Insoluble)	PCI/L	-	401				NA	
Uranium 235 (Insoluble)	PCI/L	-	-				NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07D	GW-07D	GW-07S	GW-07S
Sample ID				GW-07D	GW-7D	GW-07D	GW-7S-012104	GW-07S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/18/06	01/21/04	10/02/04
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-		NA			
1,2-Dichloroethene (cis)	UG/L	5	-	NA	NA	NA		
1,2-Dichloroethene (total)	UG/L	5	-		NA		NA	NA
Acetone	UG/L	50	-		NA	12		
Benzene	UG/L	1	-		NA			
Carbon disulfide	UG/L	60	-	0.53 J	NA			
Chlorobenzene	UG/L	5	-		NA			
Chloroethane	UG/L	5	-		NA			
Methyl ethyl ketone (2-Butanone)	UG/L	50	-	3.2 J	NA			
Tetrachloroethene	UG/L	5	-		NA			
Toluene	UG/L	5	-		NA			
Vinyl chloride	UG/L	2	-		NA			
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	NA				
1,4-Dichlorobenzene	UG/L	3	-	NA				
Anthracene	UG/L	50	-	NA				
Benzo(a)anthracene	UG/L	0.002	-	NA				
Benzo(a)pyrene	UG/L	ND	-	NA				
Benzo(b)fluoranthene	UG/L	0.002	-	NA				
Benzo(g,h,i)perylene	UG/L	-	-	NA				

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07D	GW-07D	GW-07S	GW-07S
Sample ID				GW-07D	GW-7D	GW-07D	GW-7S-012104	GW-07S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/18/06	01/21/04	10/02/04
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-	NA				
bis(2-Ethylhexyl)phthalate	UG/L	5	-	NA	8 J			
Butylbenzylphthalate	UG/L	50	-	NA				
Chrysene	UG/L	0.002	-	NA				
Diethylphthalate	UG/L	50	-	NA				
Fluoranthene	UG/L	50	-	NA				
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-	NA				
Phenanthrene	UG/L	50	-	NA				
Phenol	UG/L	1	-	NA				
Pyrene	UG/L	50	-	NA				
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	NA				
Total TCDD	NG/L	-	-	NA	NA	NA	NA	
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA	NA	NA	
2,3,7,8-TCDF	NG/L	0.007	-	NA				
Total HpCDF	NG/L	-	-	NA	NA	NA	NA	
Total TCDF	NG/L	-	-	NA	NA	NA	NA	
Metals								
Aluminum	MG/L	-	-	NA	0.84	2.2	2.81 J+	0.046 J+
Antimony	MG/L	0.003	-	NA				

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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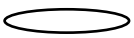
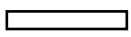

Concentration Exceeds (1)


Concentration Exceeds (2)

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07D	GW-07D	GW-07S	GW-07S
Sample ID				GW-07D	GW-7D	GW-07D	GW-7S-012104	GW-07S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/18/06	01/21/04	10/02/04
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-	NA				
Barium	MG/L	1	-	NA	0.069	0.13	0.215	0.204
Cadmium	MG/L	0.005	-	NA		1.40E-03		
Calcium	MG/L	-	-	NA	57.9	89.5	43.3	30.8
Chromium	MG/L	0.05	-	NA	0.051 J-	0.061 J+	0.024	
Cobalt	MG/L	-	-	NA				
Copper	MG/L	0.2	-	NA	0.021	0.062	0.050	
Iron	MG/L	0.3	-	NA	3.8 J-	12.4	5.77	1.03
Lead	MG/L	0.025	-	NA	0.19	0.56	0.030	
Magnesium	MG/L	35	-	NA	20.7	31.0	27.3	22.8
Manganese	MG/L	0.3	-	NA	0.065	0.16	0.453	0.223
Mercury	MG/L	7.00E-04	-	NA				2.00E-04
Nickel	MG/L	0.1	-	NA	0.044	0.055	0.036	0.02
Potassium	MG/L	-	-	NA	7.8	9.0	3.76	2.55
Silver	MG/L	0.05	-	NA				
Sodium	MG/L	20	-	NA	81.7	91.0	48.3	56.2
Vanadium	MG/L	-	-	NA				
Zinc	MG/L	2	-	NA	0.079	0.27	0.355	0.013
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	NA			NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07D	GW-07D	GW-07S	GW-07S
Sample ID				GW-07D	GW-7D	GW-07D	GW-7S-012104	GW-07S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/18/06	01/21/04	10/02/04
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA	NA			NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	NA			NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	NA			NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA	NA			NA
Cesium 137 (Soluble)	PCI/L	-	200	NA	NA			NA
Lead 212 (Insoluble)	PCI/L	-	123	NA	NA			NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA	NA		6.3	NA
Lead 214 (Soluble)	PCI/L	-	11800	NA	NA			NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	NA			NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	NA			NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA	NA			NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA	NA			NA

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07S	GW-07S	GW-07S	GW-07S	GW-08D
Sample ID				GW-7S	DUP-092005	GW-7S	GW-07S	GW-8D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	09/20/05	05/17/06	01/22/04
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-		NA	NA	NA	2
1,2-Dichloroethene (total)	UG/L	5	-	NA				NA
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					1
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07S	GW-07S	GW-07S	GW-07S	GW-08D
Sample ID				GW-7S	DUP-092005	GW-7S	GW-07S	GW-8D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	09/20/05	05/17/06	01/22/04
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-		NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-		NA	NA	NA	NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-		NA	NA	NA	NA
Total TCDF	NG/L	-	-		NA	NA	NA	NA
Metals								
Aluminum	MG/L	-	-	0.190	0.23		0.80	0.298 J+
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07S	GW-07S	GW-07S	GW-07S	GW-08D
Sample ID				GW-7S	DUP-092005	GW-7S	GW-07S	GW-8D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	09/20/05	05/17/06	01/22/04
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Metals								
Arsenic	MG/L	0.025	-					
Barium	MG/L	1	-	0.209	0.19	0.19	0.19	0.191
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	30.9	27.1	33.4	36.2	148
Chromium	MG/L	0.05	-		0.020 J-	5.80E-03 J-	0.011 J+	0.520
Cobalt	MG/L	-	-					0.006
Copper	MG/L	0.2	-					0.043
Iron	MG/L	0.3	-	0.707	0.95 J-	0.51 J-	0.78	5.76
Lead	MG/L	0.025	-					
Magnesium	MG/L	35	-	24.6	24.2	25.8	26.6	31.7
Manganese	MG/L	0.3	-	0.157	0.16	0.12	0.13	1.44
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.01	0.014		0.053	0.078
Potassium	MG/L	-	-	2.84	5.0	2.6	2.6	5.26
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	57.6	3,170	51.3	54.0	221
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-	0.022			0.016	0.106
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270		NA	NA		

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07S	GW-07S	GW-07S	GW-07S	GW-08D
Sample ID				GW-7S	DUP-092005	GW-7S	GW-07S	GW-8D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	09/20/05	05/17/06	01/22/04
Parameter	**Units**	**(1)**	**(2)**		Field Duplicate (1-1)			
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520		NA	NA		
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA	NA		
Bismuth 214 (Soluble)	PCI/L	-	18900	3.27E+01	NA	NA		59.5
Cesium 134 (Insoluble)	PCI/L	-	80		NA	NA		1.87
Cesium 137 (Soluble)	PCI/L	-	200		NA	NA		
Lead 212 (Insoluble)	PCI/L	-	123		NA	NA		
Lead 214 (Insoluble)	PCI/L	-	11800		NA	NA		
Lead 214 (Soluble)	PCI/L	-	11800		NA	NA		75.6
Potassium 40 (Insoluble)	PCI/L	-	-		NA	NA		
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA	NA		
Thorium 234 (Insoluble)	PCI/L	-	401		NA	NA		
Uranium 235 (Insoluble)	PCI/L	-	-		NA	NA		

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08D	GW-08D	GW-08D	GW-08D	GW-08D
Sample ID				GW-8A	GW-8D	GW-8D	GW-8D	GW-08D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/30/04	09/30/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**	Field Duplicate (1-1)				
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	2	2	3	NA	NA
1,2-Dichloroethene (total)	UG/L	5	-	NA	NA	NA	1.8	3.1
Acetone	UG/L	50	-					
Benzene	UG/L	1	-	0.2 J				
Carbon disulfide	UG/L	60	-				0.13 J	
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-	1	2	2	2.0	1.3
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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Location ID				GW-08D	GW-08D	GW-08D	GW-08D	GW-08D
Sample ID				GW-8A	GW-8D	GW-8D	GW-8D	GW-08D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/30/04	09/30/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**	Field Duplicate (1-1)				
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-	2		2		
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					2.60E-03 J
Total TCDD	NG/L	-	-				NA	NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-				NA	NA
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-				NA	NA
Total TCDF	NG/L	-	-				NA	NA
Metals								
Aluminum	MG/L	-	-	0.052 J+	0.034 J+		1.1	0.32
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08D	GW-08D	GW-08D	GW-08D	GW-08D
Sample ID				GW-8A	GW-8D	GW-8D	GW-8D	GW-08D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/30/04	09/30/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**	Field Duplicate (1-1)				
Metals								
Arsenic	MG/L	0.025	-	0.009				0.013
Barium	MG/L	1	-	0.104	0.103	0.109	0.20	0.20
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	105	104	105	126	146
Chromium	MG/L	0.05	-	0.007			0.11 J-	0.24 J+
Cobalt	MG/L	-	-					4.30E-03
Copper	MG/L	0.2	-			0.009	0.010	
Iron	MG/L	0.3	-	5.15	5.07	6.2	14.9 J-	12.7
Lead	MG/L	0.025	-					
Magnesium	MG/L	35	-	18.0	17.9	20.8	30.8	32.4
Manganese	MG/L	0.3	-	1.77	1.77	2.22	0.91	1.5
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.01	0.01	0.006	0.056	0.054
Potassium	MG/L	-	-	4.84	4.93	3.98	6.0	4.8
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	161	163	279	196	320
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-	0.048	0.043	0.03 J+	0.096	0.13
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	NA		NA	

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Location ID				GW-08D	GW-08D	GW-08D	GW-08D	GW-08D
Sample ID				GW-8A	GW-8D	GW-8D	GW-8D	GW-08D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/30/04	09/30/04	05/05/05	09/21/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**	Field Duplicate (1-1)				
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA	NA		NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	NA		NA	
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	NA		NA	
Cesium 134 (Insoluble)	PCI/L	-	80	NA	NA		NA	
Cesium 137 (Soluble)	PCI/L	-	200	NA	NA		NA	
Lead 212 (Insoluble)	PCI/L	-	123	NA	NA		NA	
Lead 214 (Insoluble)	PCI/L	-	11800	NA	NA		NA	
Lead 214 (Soluble)	PCI/L	-	11800	NA	NA		NA	
Potassium 40 (Insoluble)	PCI/L	-	-	NA	NA		NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	NA		NA	
Thorium 234 (Insoluble)	PCI/L	-	401	NA	NA		NA	
Uranium 235 (Insoluble)	PCI/L	-	-	NA	NA		NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08SR	GW-08SR	GW-08SR	GW-08SR	GW-08SR
Sample ID				GW-8SR-012104	GW-8SR-012104	GW-8SR	GW-8SR	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	01/21/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-		NA			
1,2-Dichloroethene (cis)	UG/L	5	-	4	NA	4	1	NA
1,2-Dichloroethene (total)	UG/L	5	-	NA	NA	NA	NA	0.96 J
Acetone	UG/L	50	-		NA			
Benzene	UG/L	1	-	0.4 J	NA			
Carbon disulfide	UG/L	60	-		NA			
Chlorobenzene	UG/L	5	-		NA			
Chloroethane	UG/L	5	-		NA			
Methyl ethyl ketone (2-Butanone)	UG/L	50	-		NA			
Tetrachloroethene	UG/L	5	-		NA			
Toluene	UG/L	5	-		NA	1 U		
Vinyl chloride	UG/L	2	-	2	NA	2	1	6.9
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-		NA			
1,4-Dichlorobenzene	UG/L	3	-		NA			
Anthracene	UG/L	50	-		NA			
Benzo(a)anthracene	UG/L	0.002	-		NA			
Benzo(a)pyrene	UG/L	ND	-		NA			
Benzo(b)fluoranthene	UG/L	0.002	-		NA			
Benzo(g,h,i)perylene	UG/L	-	-		NA			

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Location ID				GW-08SR	GW-08SR	GW-08SR	GW-08SR	GW-08SR
Sample ID				GW-8SR-012104	GW-8SR-012104	GW-8SR	GW-8SR	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	01/21/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-		NA			
bis(2-Ethylhexyl)phthalate	UG/L	5	-		NA			
Butylbenzylphthalate	UG/L	50	-		NA			
Chrysene	UG/L	0.002	-		NA			
Diethylphthalate	UG/L	50	-		NA			
Fluoranthene	UG/L	50	-		NA			
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-		NA			
Phenanthrene	UG/L	50	-		NA			
Phenol	UG/L	1	-		NA			
Pyrene	UG/L	50	-		NA			
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-		NA			
Total TCDD	NG/L	-	-	NA	NA			NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA			NA
2,3,7,8-TCDF	NG/L	0.007	-		NA			
Total HpCDF	NG/L	-	-	NA	NA			NA
Total TCDF	NG/L	-	-	NA	NA			NA
Metals								
Aluminum	MG/L	-	-	112 J+	NA	0.543	3.22	3.2
Antimony	MG/L	0.003	-		NA			

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Location ID				GW-08SR	GW-08SR	GW-08SR	GW-08SR	GW-08SR
Sample ID				GW-8SR-012104	GW-8SR-012104	GW-8SR	GW-8SR	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	01/21/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-	0.077	NA	0.015	0.011	
Barium	MG/L	1	-	1.54	NA	0.554	0.423	0.54
Cadmium	MG/L	0.005	-		NA		0.001	
Calcium	MG/L	-	-	1,230	NA	178	117	150
Chromium	MG/L	0.05	-	0.219	NA		0.012	4.60E-03 J-
Cobalt	MG/L	-	-	0.107	NA		0.008	
Copper	MG/L	0.2	-	0.343	NA		0.019	
Iron	MG/L	0.3	-	218	NA	6.31	15.1	15.8 J-
Lead	MG/L	0.025	-	0.184	NA	0.007	0.004	
Magnesium	MG/L	35	-	472	NA	61.1	44.3	49.6
Manganese	MG/L	0.3	-	8.34	NA	0.762	0.817	0.40
Mercury	MG/L	7.00E-04	-		NA			
Nickel	MG/L	0.1	-	0.282	NA	0.02	0.019	
Potassium	MG/L	-	-	21.6	NA	2.65	4.08	3.6
Silver	MG/L	0.05	-		NA			
Sodium	MG/L	20	-	159	NA	202	201	160
Vanadium	MG/L	-	-	0.255	NA	0.008	0.012	7.50E-03
Zinc	MG/L	2	-	2.15	NA	0.023	0.027 J+	
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	10.0	NA		NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08SR	GW-08SR	GW-08SR	GW-08SR	GW-08SR
Sample ID				GW-8SR-012104	GW-8SR-012104	GW-8SR	GW-8SR	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/21/04	01/21/04	09/30/04	05/05/05	09/21/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA		NA		NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	11.7	NA		NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA		NA		NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA		NA		NA
Cesium 137 (Soluble)	PCI/L	-	200	NA		NA		NA
Lead 212 (Insoluble)	PCI/L	-	123	NA	15.2	NA		NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA	10.2	NA		NA
Lead 214 (Soluble)	PCI/L	-	11800	NA	18.7	NA		NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	167	NA		NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA		NA		NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA		NA		NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA		NA		NA

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08SR	GW-26D	GW-26D	GW-26D	GW-26D
Sample ID				GW-08SR	GW-26D-012204	GW-26D	GW-26D	GW-27D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	01/22/04	10/01/04	05/04/05	05/04/05
Parameter	**Units**	**(1)**	**(2)**					Field Duplicate (1-1)
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA	2	2	2	2
1,2-Dichloroethene (total)	UG/L	5	-		NA	NA	NA	NA
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-		2	2	2	2
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08SR	GW-26D	GW-26D	GW-26D	GW-26D
Sample ID				GW-08SR	GW-26D-012204	GW-26D	GW-26D	GW-27D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	01/22/04	10/01/04	05/04/05	05/04/05
Parameter	**Units**	**(1)**	**(2)**					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA			
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA			
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA	NA			
Total TCDF	NG/L	-	-	NA	NA			
Metals								
Aluminum	MG/L	-	-	2.1	0.052 J+			
Antimony	MG/L	0.003	-					

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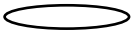

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08SR	GW-26D	GW-26D	GW-26D	GW-26D
Sample ID				GW-08SR	GW-26D-012204	GW-26D	GW-26D	GW-27D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	01/22/04	10/01/04	05/04/05	05/04/05
Parameter	**Units**	**(1)**	**(2)**					Field Duplicate (1-1)
Metals								
Arsenic	MG/L	0.025	-		0.009			
Barium	MG/L	1	-	0.36	0.151	0.168	0.117	0.118
Cadmium	MG/L	0.005	-	1.10E-03				
Calcium	MG/L	-	-	119	133	153	116	117
Chromium	MG/L	0.05	-	0.020 J+	0.031			
Cobalt	MG/L	-	-	5.70E-03				
Copper	MG/L	0.2	-		0.030			
Iron	MG/L	0.3	-	16.1	12.9	5.33	4.50	4.53
Lead	MG/L	0.025	-		0.004			
Magnesium	MG/L	35	-	37.6	22.3	26.5	20.2	20.3
Manganese	MG/L	0.3	-	0.74	1.39	1.20	1.01	1.02
Mercury	MG/L	7.00E-04	-			2.00E-04		
Nickel	MG/L	0.1	-	0.018	0.030			
Potassium	MG/L	-	-	2.4	4.83	4.78	4.88	5.08
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	184	182	275	188	192
Vanadium	MG/L	-	-	7.10E-03				
Zinc	MG/L	2	-	0.022				
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270			NA		

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Location ID				GW-08SR	GW-26D	GW-26D	GW-26D	GW-26D
Sample ID				GW-08SR	GW-26D-012204	GW-26D	GW-26D	GW-27D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	01/22/04	10/01/04	05/04/05	05/04/05
Parameter	**Units**	**(1)**	**(2)**					Field Duplicate (1-1)
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520			NA		
Bismuth 214 (Insoluble)	PCI/L	-	18900			NA		
Bismuth 214 (Soluble)	PCI/L	-	18900			NA	14.76	
Cesium 134 (Insoluble)	PCI/L	-	80			NA		
Cesium 137 (Soluble)	PCI/L	-	200			NA		
Lead 212 (Insoluble)	PCI/L	-	123			NA		
Lead 214 (Insoluble)	PCI/L	-	11800			NA		
Lead 214 (Soluble)	PCI/L	-	11800			NA		
Potassium 40 (Insoluble)	PCI/L	-	-			NA		
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05			NA		
Thorium 234 (Insoluble)	PCI/L	-	401			NA		
Uranium 235 (Insoluble)	PCI/L	-	-			NA		

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-26D	GW-26D	GW-26D	GW-28S	GW-28S
Sample ID				GW-26D	GW-26D	GW-27D-DUP	GW-28S-012104	GW-28S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	05/18/06	01/21/04	09/30/04
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA	NA	NA		
1,2-Dichloroethene (total)	UG/L	5	-	1.9	2.2	2.3	NA	NA
Acetone	UG/L	50	-			2.9 J		
Benzene	UG/L	1	-				0.7 J	2
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					1 U
Vinyl chloride	UG/L	2	-	1.8	1.8	1.8		
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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Location ID				GW-26D	GW-26D	GW-26D	GW-28S	GW-28S
Sample ID				GW-26D	GW-26D	GW-27D-DUP	GW-28S-012104	GW-28S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	05/18/06	01/21/04	09/30/04
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA	NA	NA	
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA	NA	NA	
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA	NA	NA	NA	
Total TCDF	NG/L	-	-	NA	NA	NA	NA	
Metals								
Aluminum	MG/L	-	-				42.4 J+	0.035 J+
Antimony	MG/L	0.003	-				0.005	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-26D	GW-26D	GW-26D	GW-28S	GW-28S
Sample ID				GW-26D	GW-26D	GW-27D-DUP	GW-28S-012104	GW-28S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	05/18/06	01/21/04	09/30/04
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Metals								
Arsenic	MG/L	0.025	-		0.018	0.022	0.054	
Barium	MG/L	1	-	0.16	0.13	0.13	0.985	0.456
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	142	124	128	892	213
Chromium	MG/L	0.05	-	0.28 J-	0.012 J+	0.016 J+	0.089	
Cobalt	MG/L	-	-				0.055	
Copper	MG/L	0.2	-				0.201	
Iron	MG/L	0.3	-	8.7 J-	15.0	17.5	99.2	17.0
Lead	MG/L	0.025	-				0.190	
Magnesium	MG/L	35	-	23.1	21.0	21.6	323	73.9
Manganese	MG/L	0.3	-	1.7	1.2	1.3	6.94	0.992
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.059			0.148	0.006
Potassium	MG/L	-	-	5.7	4.4	4.5	19.6	36.4
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	216	194	199	82.4	85.8
Vanadium	MG/L	-	-				0.103	0.006
Zinc	MG/L	2	-				2.42	
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA				NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Location ID				GW-26D	GW-26D	GW-26D	GW-28S	GW-28S
Sample ID				GW-26D	GW-26D	GW-27D-DUP	GW-28S-012104	GW-28S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	05/18/06	01/21/04	09/30/04
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA				NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA			12.3	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA				NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA				NA
Cesium 137 (Soluble)	PCI/L	-	200	NA				NA
Lead 212 (Insoluble)	PCI/L	-	123	NA			14.2	NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA			8.7	NA
Lead 214 (Soluble)	PCI/L	-	11800	NA				NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA				NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA			4.8	NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA				NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA				NA

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-28S	GW-28S	GW-29S	GW-29S
Sample ID				GW-28S	GW-28S	GW-28S	GW-29S-012104	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/05/05	09/20/05	05/18/06	01/21/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-		NA	NA		
1,2-Dichloroethene (total)	UG/L	5	-	NA			NA	NA
Acetone	UG/L	50	-			4.1 J		
Benzene	UG/L	1	-	1	2.3 J		0.2 J	
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (1)

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-28S	GW-28S	GW-29S	GW-29S
Sample ID				GW-28S	GW-28S	GW-28S	GW-29S-012104	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/05/05	09/20/05	05/18/06	01/21/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-		NA	NA	NA	
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-		NA	NA	NA	
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-		NA	NA	NA	
Total TCDF	NG/L	-	-		NA	NA	NA	
Metals								
Aluminum	MG/L	-	-	3.58	1.0	1.7	50.8 J+	0.076 J+
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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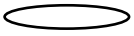

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-28S	GW-28S	GW-29S	GW-29S
Sample ID				GW-28S	GW-28S	GW-28S	GW-29S-012104	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/05/05	09/20/05	05/18/06	01/21/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-				0.124	0.015
Barium	MG/L	1	-	0.169	0.67	0.061	0.880	0.181
Cadmium	MG/L	0.005	-			1.40E-03		
Calcium	MG/L	-	-	190	201	156	779	144
Chromium	MG/L	0.05	-	0.017	4.30E-03 J-	0.022 J+	0.096	
Cobalt	MG/L	-	-	0.015	4.70E-03	4.50E-03	0.056	
Copper	MG/L	0.2	-	0.019			0.216	
Iron	MG/L	0.3	-	10.6	9.9 J-	3.6	125	3.40
Lead	MG/L	0.025	-	0.007			0.150	
Magnesium	MG/L	35	-	77.3	67.3	51.9	280	63.2
Manganese	MG/L	0.3	-	1.96	0.98	1.4	5.05	0.327
Mercury	MG/L	7.00E-04	-					2.00E-04
Nickel	MG/L	0.1	-	0.026		0.019	0.151	0.007
Potassium	MG/L	-	-	18.6	37.7	5.1	12.4	1.18
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	73.1	70.9	38.3	21.1	20.5
Vanadium	MG/L	-	-	0.011	5.80E-03		0.106	
Zinc	MG/L	2	-	0.045 J+		0.026	0.986	
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270		NA			NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-28S	GW-28S	GW-29S	GW-29S
Sample ID				GW-28S	GW-28S	GW-28S	GW-29S-012104	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/05/05	09/20/05	05/18/06	01/21/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520		NA			NA
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA			NA
Bismuth 214 (Soluble)	PCI/L	-	18900		NA		16.1	NA
Cesium 134 (Insoluble)	PCI/L	-	80		NA			NA
Cesium 137 (Soluble)	PCI/L	-	200		NA			NA
Lead 212 (Insoluble)	PCI/L	-	123		NA			NA
Lead 214 (Insoluble)	PCI/L	-	11800		NA			NA
Lead 214 (Soluble)	PCI/L	-	11800		NA			NA
Potassium 40 (Insoluble)	PCI/L	-	-		NA			NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA			NA
Thorium 234 (Insoluble)	PCI/L	-	401		NA		39	NA
Uranium 235 (Insoluble)	PCI/L	-	-		NA			NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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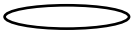

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-29S	GW-29S	GW-29S	GW-30S	GW-30S
Sample ID				GW-29S	GW-29S	GW-29S	GW30S-012004	GW-30S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-		NA	NA		
1,2-Dichloroethene (total)	UG/L	5	-	NA			NA	NA
Acetone	UG/L	50	-			2.8 J		
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-29S	GW-29S	GW-29S	GW-30S	GW-30S
Sample ID				GW-29S	GW-29S	GW-29S	GW30S-012004	GW-30S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-		NA	NA	NA	
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-		NA	NA	NA	
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-		NA	NA	NA	
Total TCDF	NG/L	-	-		NA	NA	NA	
Metals								
Aluminum	MG/L	-	-	0.462	0.29	4.4	3.09 J+	0.034 J+
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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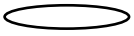
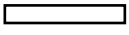


Concentration Exceeds (1)



Concentration Exceeds (2)

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-29S	GW-29S	GW-29S	GW-30S	GW-30S
Sample ID				GW-29S	GW-29S	GW-29S	GW30S-012004	GW-30S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-	0.021		0.026		
Barium	MG/L	1	-	0.212	0.20	0.23	0.404	0.656
Cadmium	MG/L	0.005	-			1.70E-03	0.007	
Calcium	MG/L	-	-	156	106	104	206	301
Chromium	MG/L	0.05	-	0.005	4.00E-03 J-	0.033 J+		
Cobalt	MG/L	-	-					
Copper	MG/L	0.2	-				0.042	
Iron	MG/L	0.3	-	7.35	1.2 J-	13.1	15.1	17.5
Lead	MG/L	0.025	-			5.80E-03	0.005	0.004
Magnesium	MG/L	35	-	65.1	56.7	62.6	53.6	75.2
Manganese	MG/L	0.3	-	0.596	0.19	0.29	2.1	3.01
Mercury	MG/L	7.00E-04	-					3.00E-04
Nickel	MG/L	0.1	-	0.012	0.016	0.021	0.006	
Potassium	MG/L	-	-	1.07	1.2	2.7	3.21	3.30
Silver	MG/L	0.05	-	0.079 J-				
Sodium	MG/L	20	-	21.3	18.8	18.4	901	1,150
Vanadium	MG/L	-	-			8.00E-03		
Zinc	MG/L	2	-			0.025	0.018	
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270		NA			NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-29S	GW-29S	GW-29S	GW-30S	GW-30S
Sample ID				GW-29S	GW-29S	GW-29S	GW30S-012004	GW-30S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520		NA		2.50	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA			NA
Bismuth 214 (Soluble)	PCI/L	-	18900		NA		24.6	NA
Cesium 134 (Insoluble)	PCI/L	-	80		NA			NA
Cesium 137 (Soluble)	PCI/L	-	200		NA			NA
Lead 212 (Insoluble)	PCI/L	-	123		NA			NA
Lead 214 (Insoluble)	PCI/L	-	11800		NA			NA
Lead 214 (Soluble)	PCI/L	-	11800		NA		22.7	NA
Potassium 40 (Insoluble)	PCI/L	-	-		NA		37.5	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA			NA
Thorium 234 (Insoluble)	PCI/L	-	401		NA			NA
Uranium 235 (Insoluble)	PCI/L	-	-		NA			NA

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Sample ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-		NA	NA		
1,2-Dichloroethene (total)	UG/L	5	-	NA			NA	NA
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-		0.53 J			
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Sample ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-		NA	NA		0.028
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-		NA	NA		0.02 J
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-		NA	NA		0.02 J
Total TCDF	NG/L	-	-		NA	NA		2.10E-03 J
Metals								
Aluminum	MG/L	-	-	0.219		1.6	0.731	4.86
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (1)

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Sample ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-					
Barium	MG/L	1	-	0.489	0.50	0.50	0.051	0.070
Cadmium	MG/L	0.005	-	0.006		1.40E-03	0.001	0.001
Calcium	MG/L	-	-	202	245	249	259	198
Chromium	MG/L	0.05	-	0.139		0.031 J+	0.009	0.015
Cobalt	MG/L	-	-				0.005	0.006
Copper	MG/L	0.2	-	0.015			0.023	0.020
Iron	MG/L	0.3	-	21.8	13.2 J-	28.2	2.57	6.88
Lead	MG/L	0.025	-				0.014	0.011
Magnesium	MG/L	35	-	45.4	61.2	61.9	82.6	59.1
Manganese	MG/L	0.3	-	2.20	2.6	2.8	1.53	1.40
Mercury	MG/L	7.00E-04	-				2.00E-04	
Nickel	MG/L	0.1	-	0.012		0.014	0.01	0.016
Potassium	MG/L	-	-	9.31	4.2	4.5	18.6	16.9
Silver	MG/L	0.05	-	0.038 J-				
Sodium	MG/L	20	-	882	857	799	14.1	9.15
Vanadium	MG/L	-	-					0.009
Zinc	MG/L	2	-	0.025		0.058	0.047	0.071
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270		NA		NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Sample ID				GW-30S	GW-30S	GW-30S	GW-31S	GW-31S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520		NA		NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA		NA	
Bismuth 214 (Soluble)	PCI/L	-	18900		NA		NA	
Cesium 134 (Insoluble)	PCI/L	-	80		NA		NA	
Cesium 137 (Soluble)	PCI/L	-	200		NA		NA	
Lead 212 (Insoluble)	PCI/L	-	123		NA		NA	
Lead 214 (Insoluble)	PCI/L	-	11800		NA		NA	
Lead 214 (Soluble)	PCI/L	-	11800		NA		NA	
Potassium 40 (Insoluble)	PCI/L	-	-		NA		NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA		NA	
Thorium 234 (Insoluble)	PCI/L	-	401		NA		NA	
Uranium 235 (Insoluble)	PCI/L	-	-	2.42E+00	NA		NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-31S	GW-31S	GW-32S	GW-32S	GW-32S
Sample ID				GW-31S	GW-31S	GW32S-012004	GW-32S	GW-32S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/16/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA	NA			
1,2-Dichloroethene (total)	UG/L	5	-			NA	NA	NA
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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Location ID				GW-31S	GW-31S	GW-32S	GW-32S	GW-32S
Sample ID				GW-31S	GW-31S	GW32S-012004	GW-32S	GW-32S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/16/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-	4 J				
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-		4.40E-03			
Total TCDD	NG/L	-	-	NA	NA	NA		
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA	NA		
2,3,7,8-TCDF	NG/L	0.007	-	2.10E-03 J	3.70E-03			
Total HpCDF	NG/L	-	-	NA	NA	NA		
Total TCDF	NG/L	-	-	NA	NA	NA		
Metals								
Aluminum	MG/L	-	-	1.5	23.7	0.931 J+	0.032 J+	0.824
Antimony	MG/L	0.003	-					

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Location ID				GW-31S	GW-31S	GW-32S	GW-32S	GW-32S
Sample ID				GW-31S	GW-31S	GW32S-012004	GW-32S	GW-32S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/16/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-		0.014			
Barium	MG/L	1	-	0.054	0.23	0.074	0.047	0.038
Cadmium	MG/L	0.005	-		5.10E-03			
Calcium	MG/L	-	-	208	337	141	133	86.1
Chromium	MG/L	0.05	-	0.086 J-	0.33 J+	0.010		0.011
Cobalt	MG/L	-	-	4.40E-03	0.021			
Copper	MG/L	0.2	-		0.078	0.039		
Iron	MG/L	0.3	-	2.6 J-	42.6	1.17		1.50
Lead	MG/L	0.025	-		0.037	0.003	0.019	0.003
Magnesium	MG/L	35	-	58.6	103	57.9	59.6	45.0
Manganese	MG/L	0.3	-	1.3	2.3	0.075	0.100	0.191
Mercury	MG/L	7.00E-04	-					
Nickel	MG/L	0.1	-	0.052	0.20	0.047	0.006	0.011
Potassium	MG/L	-	-	21.0	18.4	4.58	3.83	3.39
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	10.8	7.5	46.7	21.5	8.83
Vanadium	MG/L	-	-		0.048			
Zinc	MG/L	2	-	0.027	0.37	0.599		0.034
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA			NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-31S	GW-31S	GW-32S	GW-32S	GW-32S
Sample ID				GW-31S	GW-31S	GW32S-012004	GW-32S	GW-32S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/16/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA			NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA			NA	
Bismuth 214 (Soluble)	PCI/L	-	18900	NA		20.7	NA	
Cesium 134 (Insoluble)	PCI/L	-	80	NA			NA	
Cesium 137 (Soluble)	PCI/L	-	200	NA			NA	
Lead 212 (Insoluble)	PCI/L	-	123	NA			NA	
Lead 214 (Insoluble)	PCI/L	-	11800	NA			NA	
Lead 214 (Soluble)	PCI/L	-	11800	NA			NA	
Potassium 40 (Insoluble)	PCI/L	-	-	NA		44.9	NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA			NA	
Thorium 234 (Insoluble)	PCI/L	-	401	NA			NA	
Uranium 235 (Insoluble)	PCI/L	-	-	NA			NA	

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Location ID				GW-32S	GW-32S	GW-33S	GW-33S	GW-33S
Sample ID				GW-32S	GW-32S	GW33S-012004	GW-33S	GW-33S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-	NA	NA			
1,2-Dichloroethene (total)	UG/L	5	-			NA	NA	NA
Acetone	UG/L	50	-					
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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Sample ID				GW-32S	GW-32S	GW33S-012004	GW-33S	GW-33S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-					3
Butylbenzylphthalate	UG/L	50	-					
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-	NA	NA	NA		
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA	NA		
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	NA	NA	NA		
Total TCDF	NG/L	-	-	NA	NA	NA		
Metals								
Aluminum	MG/L	-	-	5.9	3.2	0.820 J+	0.182 J+	1.14
Antimony	MG/L	0.003	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Sample ID				GW-32S	GW-32S	GW33S-012004	GW-33S	GW-33S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-					
Barium	MG/L	1	-	0.085	0.070	0.026	0.029	0.027
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	111	85.5	525	216	180
Chromium	MG/L	0.05	-	0.070 J-	0.043 J+	0.008		0.007
Cobalt	MG/L	-	-	4.40E-03				
Copper	MG/L	0.2	-	0.017	0.012	0.045		
Iron	MG/L	0.3	-	8.5 J-	4.4	0.883	0.335	1.26
Lead	MG/L	0.025	-	9.40E-03			0.008	
Magnesium	MG/L	35	-	54.5	46.3	110	51.0	46.2
Manganese	MG/L	0.3	-	0.28	0.30	2.35	0.384	0.931
Mercury	MG/L	7.00E-04	-				2.00E-04	
Nickel	MG/L	0.1	-	0.051	0.025	0.029	0.005	0.008
Potassium	MG/L	-	-	7.9	4.6	5.49	3.95	3.67
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	16.3	9.3	33.2	16.9	13.5
Vanadium	MG/L	-	-	0.010	5.30E-03			
Zinc	MG/L	2	-	0.093	0.049	0.019		0.332
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA			NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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Sample ID				GW-32S	GW-32S	GW33S-012004	GW-33S	GW-33S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	01/20/04	10/01/04	05/04/05
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA			NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA			NA	
Bismuth 214 (Soluble)	PCI/L	-	18900	NA			NA	
Cesium 134 (Insoluble)	PCI/L	-	80	NA			NA	
Cesium 137 (Soluble)	PCI/L	-	200	NA		6.35	NA	
Lead 212 (Insoluble)	PCI/L	-	123	NA			NA	
Lead 214 (Insoluble)	PCI/L	-	11800	NA			NA	
Lead 214 (Soluble)	PCI/L	-	11800	NA			NA	
Potassium 40 (Insoluble)	PCI/L	-	-	NA			NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA			NA	
Thorium 234 (Insoluble)	PCI/L	-	401	NA			NA	
Uranium 235 (Insoluble)	PCI/L	-	-	NA			NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-33S	GW-33S	GW-33S	GW-34S	GW-34S
Sample ID				GW-33S	GW-33S	GW-33S	GW-34S-012004	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/16/06	01/20/04	09/29/04
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-		NA			2
1,2-Dichloroethene (cis)	UG/L	5	-	NA	NA	NA		
1,2-Dichloroethene (total)	UG/L	5	-		NA		NA	NA
Acetone	UG/L	50	-		NA	2.8 J	3.2 J	17 J+
Benzene	UG/L	1	-		NA			
Carbon disulfide	UG/L	60	-		NA			
Chlorobenzene	UG/L	5	-		NA			
Chloroethane	UG/L	5	-		NA			
Methyl ethyl ketone (2-Butanone)	UG/L	50	-		NA			
Tetrachloroethene	UG/L	5	-		NA			
Toluene	UG/L	5	-		NA			
Vinyl chloride	UG/L	2	-		NA			
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	NA				
1,4-Dichlorobenzene	UG/L	3	-	NA				
Anthracene	UG/L	50	-	NA				
Benzo(a)anthracene	UG/L	0.002	-	NA				
Benzo(a)pyrene	UG/L	ND	-	NA				
Benzo(b)fluoranthene	UG/L	0.002	-	NA				
Benzo(g,h,i)perylene	UG/L	-	-	NA				

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Location ID				GW-33S	GW-33S	GW-33S	GW-34S	GW-34S
Sample ID				GW-33S	GW-33S	GW-33S	GW-34S-012004	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/16/06	01/20/04	09/29/04
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-	NA				
bis(2-Ethylhexyl)phthalate	UG/L	5	-	NA				
Butylbenzylphthalate	UG/L	50	-	NA				
Chrysene	UG/L	0.002	-	NA				
Diethylphthalate	UG/L	50	-	NA				
Fluoranthene	UG/L	50	-	NA				
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-	NA				
Phenanthrene	UG/L	50	-	NA				
Phenol	UG/L	1	-	NA				
Pyrene	UG/L	50	-	NA				
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	NA				
Total TCDD	NG/L	-	-	NA	NA	NA	NA	
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	NA	NA	NA	NA	
2,3,7,8-TCDF	NG/L	0.007	-	NA				
Total HpCDF	NG/L	-	-	NA	NA	NA	NA	
Total TCDF	NG/L	-	-	NA	NA	NA	NA	
Metals								
Aluminum	MG/L	-	-	NA	0.33		2.06 J+	0.282
Antimony	MG/L	0.003	-	NA				

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Location ID				GW-33S	GW-33S	GW-33S	GW-34S	GW-34S
Sample ID				GW-33S	GW-33S	GW-33S	GW-34S-012004	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/16/06	01/20/04	09/29/04
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-	NA				0.011
Barium	MG/L	1	-	NA	0.029	0.014	0.141	0.138
Cadmium	MG/L	0.005	-	NA				
Calcium	MG/L	-	-	NA	283	194	162	181
Chromium	MG/L	0.05	-	NA	0.055 J-		0.007	0.015
Cobalt	MG/L	-	-	NA				
Copper	MG/L	0.2	-	NA			0.057	0.012
Iron	MG/L	0.3	-	NA	0.32 J-	0.21	3.47	7.37
Lead	MG/L	0.025	-	NA			0.006	0.003
Magnesium	MG/L	35	-	NA	77.6	52.1	69.2	79.2
Manganese	MG/L	0.3	-	NA	0.037	0.54	0.464	0.318
Mercury	MG/L	7.00E-04	-	NA				
Nickel	MG/L	0.1	-	NA			0.023	0.03
Potassium	MG/L	-	-	NA	3.4	3.4	9.44	9.23
Silver	MG/L	0.05	-	NA				
Sodium	MG/L	20	-	NA	19.9	11.4	99.4	88.5
Vanadium	MG/L	-	-	NA			0.020	0.012
Zinc	MG/L	2	-	NA			0.062	0.025
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	NA			NA

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Sample ID				GW-33S	GW-33S	GW-33S	GW-34S-012004	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	09/21/05	05/16/06	01/20/04	09/29/04
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520	NA	NA			NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	NA			NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	NA		33.8	NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA	NA			NA
Cesium 137 (Soluble)	PCI/L	-	200	NA	NA			NA
Lead 212 (Insoluble)	PCI/L	-	123	NA	NA			NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA	NA			NA
Lead 214 (Soluble)	PCI/L	-	11800	NA	NA			NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	NA		32.1	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	NA			NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA	NA			NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA	NA			NA

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Sample ID				GW-34S	GW-34S	GW-34S	GW35S-012004	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/21/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-					
1,2-Dichloroethene (cis)	UG/L	5	-		NA	NA		
1,2-Dichloroethene (total)	UG/L	5	-	NA			NA	NA
Acetone	UG/L	50	-					13 U
Benzene	UG/L	1	-					
Carbon disulfide	UG/L	60	-					
Chlorobenzene	UG/L	5	-					
Chloroethane	UG/L	5	-					
Methyl ethyl ketone (2-Butanone)	UG/L	50	-					
Tetrachloroethene	UG/L	5	-					
Toluene	UG/L	5	-					
Vinyl chloride	UG/L	2	-					
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-					
1,4-Dichlorobenzene	UG/L	3	-					
Anthracene	UG/L	50	-					
Benzo(a)anthracene	UG/L	0.002	-					
Benzo(a)pyrene	UG/L	ND	-					
Benzo(b)fluoranthene	UG/L	0.002	-					
Benzo(g,h,i)perylene	UG/L	-	-					

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Location ID				GW-34S	GW-34S	GW-34S	GW-35S	GW-35S
Sample ID				GW-34S	GW-34S	GW-34S	GW35S-012004	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/21/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Semivolatile Organic Compounds								
Benzo(k)fluoranthene	UG/L	0.002	-					
bis(2-Ethylhexyl)phthalate	UG/L	5	-		4 J			
Butylbenzylphthalate	UG/L	50	-				4	
Chrysene	UG/L	0.002	-					
Diethylphthalate	UG/L	50	-					
Fluoranthene	UG/L	50	-					
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-					
Phenanthrene	UG/L	50	-					
Phenol	UG/L	1	-					
Pyrene	UG/L	50	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-					
Total TCDD	NG/L	-	-		NA	NA	NA	
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-	0.022 J	NA	NA	NA	
2,3,7,8-TCDF	NG/L	0.007	-					
Total HpCDF	NG/L	-	-	0.022 J	NA	NA	NA	
Total TCDF	NG/L	-	-		NA	NA	NA	
Metals								
Aluminum	MG/L	-	-	0.240		0.22	3.25 J+	0.292
Antimony	MG/L	0.003	-					

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Sample ID				GW-34S	GW-34S	GW-34S	GW35S-012004	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/21/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Arsenic	MG/L	0.025	-					
Barium	MG/L	1	-	0.119	0.12	0.16	0.043	0.031
Cadmium	MG/L	0.005	-					
Calcium	MG/L	-	-	175	175	166	356	195
Chromium	MG/L	0.05	-					
Cobalt	MG/L	-	-					
Copper	MG/L	0.2	-				0.042	
Iron	MG/L	0.3	-	0.668	1.2 J-	0.57	2.96	0.726
Lead	MG/L	0.025	-				0.007	0.005
Magnesium	MG/L	35	-	58.7	66.1	46.9	122	67.8
Manganese	MG/L	0.3	-	0.305	0.32	0.46	1.52	1.49
Mercury	MG/L	7.00E-04	-					3.00E-04
Nickel	MG/L	0.1	-	0.012	0.016	0.011	0.013	0.007
Potassium	MG/L	-	-	9.73	8.4	8.9	5.44	4.89
Silver	MG/L	0.05	-					
Sodium	MG/L	20	-	53.4	83.8	61.8	20.5	13.4
Vanadium	MG/L	-	-					
Zinc	MG/L	2	-				0.063	0.037
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270		NA			NA

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Sample ID				GW-34S	GW-34S	GW-34S	GW35S-012004	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/21/05	05/16/06	01/20/04	10/01/04
Parameter	**Units**	**(1)**	**(2)**					
Radionuclides								
Barium 133 (Insoluble)	PCI/L	-	1520		NA			NA
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA			NA
Bismuth 214 (Soluble)	PCI/L	-	18900		NA			NA
Cesium 134 (Insoluble)	PCI/L	-	80		NA			NA
Cesium 137 (Soluble)	PCI/L	-	200		NA			NA
Lead 212 (Insoluble)	PCI/L	-	123		NA			NA
Lead 214 (Insoluble)	PCI/L	-	11800		NA			NA
Lead 214 (Soluble)	PCI/L	-	11800		NA			NA
Potassium 40 (Insoluble)	PCI/L	-	-		NA			NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA			NA
Thorium 234 (Insoluble)	PCI/L	-	401		NA			NA
Uranium 235 (Insoluble)	PCI/L	-	-		NA			NA

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PFOHL BROTHERS LANDFILL SITE

Location ID				GW-35S	GW-35S	GW-35S
Sample ID				GW-35S	GW-35S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**			
Volatile Organic Compounds						
1,1,2-Trichloroethane	UG/L	1	-			
1,2-Dichloroethene (cis)	UG/L	5	-		NA	NA
1,2-Dichloroethene (total)	UG/L	5	-	NA		
Acetone	UG/L	50	-			
Benzene	UG/L	1	-			
Carbon disulfide	UG/L	60	-			
Chlorobenzene	UG/L	5	-			
Chloroethane	UG/L	5	-			
Methyl ethyl ketone (2-Butanone)	UG/L	50	-			
Tetrachloroethene	UG/L	5	-			
Toluene	UG/L	5	-			
Vinyl chloride	UG/L	2	-			
Semivolatile Organic Compounds						
1,3-Dichlorobenzene	UG/L	3	-			
1,4-Dichlorobenzene	UG/L	3	-			
Anthracene	UG/L	50	-			
Benzo(a)anthracene	UG/L	0.002	-			
Benzo(a)pyrene	UG/L	ND	-			
Benzo(b)fluoranthene	UG/L	0.002	-			
Benzo(g,h,i)perylene	UG/L	-	-			

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Location ID				GW-35S	GW-35S	GW-35S
Sample ID				GW-35S	GW-35S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**			
Semivolatile Organic Compounds						
Benzo(k)fluoranthene	UG/L	0.002	-			
bis(2-Ethylhexyl)phthalate	UG/L	5	-			
Butylbenzylphthalate	UG/L	50	-			
Chrysene	UG/L	0.002	-			
Diethylphthalate	UG/L	50	-			
Fluoranthene	UG/L	50	-			
Indeno(1,2,3-cd)pyrene	UG/L	0.002	-			
Phenanthrene	UG/L	50	-			
Phenol	UG/L	1	-			
Pyrene	UG/L	50	-			
Dioxins/Furans						
2,3,7,8-TCDD	NG/L	7.00E-04	-			
Total TCDD	NG/L	-	-		NA	NA
1,2,3,4,6,7,8-HpCDF	NG/L	0.07	-		NA	NA
2,3,7,8-TCDF	NG/L	0.007	-			1.60E-03
Total HpCDF	NG/L	-	-		NA	NA
Total TCDF	NG/L	-	-		NA	NA
Metals						
Aluminum	MG/L	-	-	1.16	26.0	0.25
Antimony	MG/L	0.003	-			

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-35S	GW-35S	GW-35S
Sample ID				GW-35S	GW-35S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**			
Metals						
Arsenic	MG/L	0.025	-		0.016	
Barium	MG/L	1	-	0.034	0.32	0.046
Cadmium	MG/L	0.005	-		2.50E-03	
Calcium	MG/L	-	-	98.4	194	94.5
Chromium	MG/L	0.05	-	0.005	0.21 J-	0.018 J+
Cobalt	MG/L	-	-		0.036	
Copper	MG/L	0.2	-		0.093	
Iron	MG/L	0.3	-	2.03	45.1 J-	0.56
Lead	MG/L	0.025	-	0.003	0.050	
Magnesium	MG/L	35	-	37.1	78.7	33.9
Manganese	MG/L	0.3	-	1.00	7.4	0.72
Mercury	MG/L	7.00E-04	-			
Nickel	MG/L	0.1	-	0.005	0.15	
Potassium	MG/L	-	-	3.74	13.0	4.2
Silver	MG/L	0.05	-			
Sodium	MG/L	20	-	6.06	13.3	14.4
Vanadium	MG/L	-	-		0.050	
Zinc	MG/L	2	-	0.153	0.66	0.030
Radionuclides						
Actinium 228 (Insoluble)	PCI/L	-	3270		NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

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Only Detected Results Reported.

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-35S	GW-35S	GW-35S
Sample ID				GW-35S	GW-35S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06
Parameter	**Units**	**(1)**	**(2)**			
Radionuclides						
Barium 133 (Insoluble)	PCI/L	-	1520		NA	
Bismuth 214 (Insoluble)	PCI/L	-	18900		NA	
Bismuth 214 (Soluble)	PCI/L	-	18900		NA	
Cesium 134 (Insoluble)	PCI/L	-	80		NA	
Cesium 137 (Soluble)	PCI/L	-	200		NA	
Lead 212 (Insoluble)	PCI/L	-	123		NA	
Lead 214 (Insoluble)	PCI/L	-	11800		NA	
Lead 214 (Soluble)	PCI/L	-	11800		NA	
Potassium 40 (Insoluble)	PCI/L	-	-		NA	
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05		NA	
Thorium 234 (Insoluble)	PCI/L	-	401		NA	
Uranium 235 (Insoluble)	PCI/L	-	-		NA	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-01	SW-01	SW-01	SW-02	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-2	SW-2
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
Acetone	UG/L	-	-					
Bromodichloromethane	UG/L	-	-					
Chloroform	UG/L	-	-			NA		2
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	UG/L	-	-			1 J		
Benzo(g,h,i)perylene	UG/L	-	-					
Benzo(k)fluoranthene	UG/L	-	-			1 J		
bis(2-Ethylhexyl)phthalate	UG/L	-	-					
Fluoranthene	UG/L	-	-			0.7 J		
Pyrene	UG/L	-	-			0.6 J		
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	-	-	NA	NA	2.90E-03 J	NA	NA
2,3,7,8-TCDF	NG/L	-	-	NA	NA	0.012	NA	NA
Metals								
Aluminum	MG/L	0.1	-	0.663 J+	0.295 J+	2.6	0.079 J+	0.056 J+
Barium	MG/L	-	-	0.054	0.055	0.088	0.049	0.048
Calcium	MG/L	-	-	69.1	70.2	75.3	74.7	67.8
Chromium	MG/L	-	-			5.10E-03		
Cobalt	MG/L	-	-					
Copper	MG/L	*	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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Concentration Exceeds (1)

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-01	SW-01	SW-01	SW-02	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-2	SW-2
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Iron	MG/L	0.3	-	1.49	1.06	6.5	0.540	0.258
Lead	MG/L	*	-			0.015		
Magnesium	MG/L	-	-	13.9	15.5	17.5	15.3	15.0
Manganese	MG/L	-	-	0.126	0.09	0.27 J+	0.060	0.032
Nickel	MG/L	-	-					
Potassium	MG/L	-	-	3.77	3.76	3.6 J+	3.58	3.62
Silver	MG/L	0.1	-					
Sodium	MG/L	-	-	235	219 D	189	237	190
Vanadium	MG/L	0.14	-	1.81E-03		5.60E-03	5.42E-04	
Zinc	MG/L	*	-	0.020	0.039	0.073	0.013	
Radionuclides								
Bismuth 212 (Insoluble)	PCI/L	-	-					
Bismuth 212 (Soluble)	PCI/L	-	-					
Cesium 134 (Soluble)	PCI/L	-	80					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-02	SW-03	SW-03	SW-03	SW-03
Sample ID				SW-02	SW-3	SW-3-DUP	SW-3	SW-03
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/03/04	05/03/04	05/03/05	05/15/06
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Volatile Organic Compounds								
Acetone	UG/L	-	-				20	
Bromodichloromethane	UG/L	-	-				1	
Chloroform	UG/L	-	-	NA			2	NA
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	UG/L	-	-					
Benzo(g,h,i)perylene	UG/L	-	-					
Benzo(k)fluoranthene	UG/L	-	-					
bis(2-Ethylhexyl)phthalate	UG/L	-	-					
Fluoranthene	UG/L	-	-					
Pyrene	UG/L	-	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	-	-		NA	NA	NA	
2,3,7,8-TCDF	NG/L	-	-		NA	NA	NA	
Metals								
Aluminum	MG/L	0.1	-		0.032 J+	0.629 J+	0.151 J+	
Barium	MG/L	-	-	0.060	0.051	0.058	0.051	0.058
Calcium	MG/L	-	-	79.2	78.6	86.2	72.9	78.9
Chromium	MG/L	-	-					
Cobalt	MG/L	-	-					
Copper	MG/L	*	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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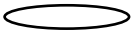
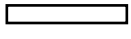


Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-02	SW-03	SW-03	SW-03	SW-03
Sample ID				SW-02	SW-3	SW-3-DUP	SW-3	SW-03
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/03/04	05/03/04	05/03/05	05/15/06
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Metals								
Iron	MG/L	0.3	-	0.41	0.485	1.24	0.299	0.39
Lead	MG/L	*	-			0.003		
Magnesium	MG/L	-	-	17.6	16.1	17.9	15.9	17.6
Manganese	MG/L	-	-	0.10 J+	0.066	0.107	0.038	0.13 J+
Nickel	MG/L	-	-					
Potassium	MG/L	-	-	2.8 J+	3.69	3.97	3.65	2.9 J+
Silver	MG/L	0.1	-					
Sodium	MG/L	-	-	185	243	248	207	176
Vanadium	MG/L	0.14	-		4.86E-04	1.73E-03		
Zinc	MG/L	*	-	0.011	0.014	0.027	0.017	0.014
Radionuclides								
Bismuth 212 (Insoluble)	PCI/L	-	-					
Bismuth 212 (Soluble)	PCI/L	-	-					
Cesium 134 (Soluble)	PCI/L	-	80		5.90 J	3.80 J		

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

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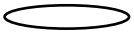
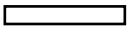


Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-4	SW-4	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
Acetone	UG/L	-	-					
Bromodichloromethane	UG/L	-	-					
Chloroform	UG/L	-	-			NA		
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	UG/L	-	-			0.9 J		
Benzo(g,h,i)perylene	UG/L	-	-			0.5 J		
Benzo(k)fluoranthene	UG/L	-	-			0.9 J		
bis(2-Ethylhexyl)phthalate	UG/L	-	-			5 J		
Fluoranthene	UG/L	-	-			0.8 J		
Pyrene	UG/L	-	-			0.7 J		
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	-	-	NA	NA		NA	NA
2,3,7,8-TCDF	NG/L	-	-	NA	NA		NA	NA
Metals								
Aluminum	MG/L	0.1	-	0.353 J+		3.1	0.198 J+	0.056 J+
Barium	MG/L	-	-	0.043	0.038	0.11	0.019	0.015
Calcium	MG/L	-	-	78.9	77.3	82.4	69.8	62.6
Chromium	MG/L	-	-			7.60E-03		
Cobalt	MG/L	-	-					
Copper	MG/L	*	-			0.014		

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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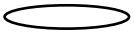
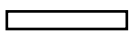


Concentration Exceeds (1)



Concentration Exceeds (2)

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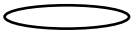
TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-4	SW-4	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Iron	MG/L	0.3	-	2.48	0.33	10.6	0.249	0.114
Lead	MG/L	*	-	0.019		0.016		
Magnesium	MG/L	-	-	16.6	17.0	17.7	20.6	20.8
Manganese	MG/L	-	-	0.595	0.056	2.8 J+	0.084	0.053
Nickel	MG/L	-	-					
Potassium	MG/L	-	-	3.75	2.75	3.0 J+	4.73	3.31
Silver	MG/L	0.1	-					0.084 J-
Sodium	MG/L	-	-	176	153	103	179	18.5
Vanadium	MG/L	0.14	-	1.32E-03		7.80E-03	2.08E-03	
Zinc	MG/L	*	-	0.022		0.092	0.030	0.014
Radionuclides								
Bismuth 212 (Insoluble)	PCI/L	-	-				8.80 E	
Bismuth 212 (Soluble)	PCI/L	-	-				51.0 J	
Cesium 134 (Soluble)	PCI/L	-	80					

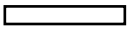
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-06	SW-06	SW-06	SW-06	SW-07
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-7
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/03/05	05/15/06	05/03/04
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Volatile Organic Compounds								
Acetone	UG/L	-	-					
Bromodichloromethane	UG/L	-	-					
Chloroform	UG/L	-	-				NA	
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	UG/L	-	-					
Benzo(g,h,i)perylene	UG/L	-	-					
Benzo(k)fluoranthene	UG/L	-	-					
bis(2-Ethylhexyl)phthalate	UG/L	-	-					
Fluoranthene	UG/L	-	-					
Pyrene	UG/L	-	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	-	-	NA	NA	NA		NA
2,3,7,8-TCDF	NG/L	-	-	NA	NA	NA		NA
Metals								
Aluminum	MG/L	0.1	-	1.17 J+	0.119 J+	0.123 J+	7.8	0.049 J+
Barium	MG/L	-	-	0.042	0.034	0.035	0.085	0.045
Calcium	MG/L	-	-	155	131	131	190	95.0
Chromium	MG/L	-	-				9.50E-03	
Cobalt	MG/L	-	-				4.90E-03	
Copper	MG/L	*	-		0.015	0.011	0.015	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-06	SW-06	SW-06	SW-06	SW-07
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-7
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/03/05	05/15/06	05/03/04
Parameter	**Units**	**(1)**	**(2)**			Field Duplicate (1-1)		
Metals								
Iron	MG/L	0.3	-	1.85	0.268	0.255	9.9	0.869
Lead	MG/L	*	-	0.026			0.013	
Magnesium	MG/L	-	-	42.5	35.6	35.4	52.3	22.4
Manganese	MG/L	-	-	0.170	0.155	0.172	0.70 J+	0.135
Nickel	MG/L	-	-				0.011	
Potassium	MG/L	-	-	8.43	7.15	7.27	13.4 J+	2.44
Silver	MG/L	0.1	-					
Sodium	MG/L	-	-	52.3	38.8	40.1	35.9	116
Vanadium	MG/L	0.14	-	2.54E-03			0.015	4.99E-04
Zinc	MG/L	*	-	0.017			0.073	
Radionuclides								
Bismuth 212 (Insoluble)	PCI/L	-	-					14.2 E
Bismuth 212 (Soluble)	PCI/L	-	-					
Cesium 134 (Soluble)	PCI/L	-	80					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

Concentration Exceeds (1)

Concentration Exceeds (2)

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Only Detected Results Reported.

TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-07	SW-07	SW-08	SW-08	SW-08
Sample ID				SW-7	SW-07	SW-8	SW-8	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/03/04	05/03/05	05/15/06
Parameter	**Units**	**(1)**	**(2)**					
Volatile Organic Compounds								
Acetone	UG/L	-	-					
Bromodichloromethane	UG/L	-	-					
Chloroform	UG/L	-	-		NA			NA
Semivolatile Organic Compounds								
Benzo(b)fluoranthene	UG/L	-	-					
Benzo(g,h,i)perylene	UG/L	-	-					
Benzo(k)fluoranthene	UG/L	-	-					
bis(2-Ethylhexyl)phthalate	UG/L	-	-					
Fluoranthene	UG/L	-	-					
Pyrene	UG/L	-	-					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	-	-	NA		NA	NA	
2,3,7,8-TCDF	NG/L	-	-	NA		NA	NA	
Metals								
Aluminum	MG/L	0.1	-				0.069 J+	
Barium	MG/L	-	-	0.038	0.048	0.052	0.052	0.076
Calcium	MG/L	-	-	86.6	97.7	102	94.6	97.5
Chromium	MG/L	-	-					
Cobalt	MG/L	-	-					
Copper	MG/L	*	-					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

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Advanced Selection: B2
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([LOGDATE] BETWEEN #01/01/04# AND #09/30/06#) AND [MATRIX] = 'WS'

TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-07	SW-07	SW-08	SW-08	SW-08
Sample ID				SW-7	SW-07	SW-8	SW-8	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/03/04	05/03/05	05/15/06
Parameter	**Units**	**(1)**	**(2)**					
Metals								
Iron	MG/L	0.3	-	0.308	0.30	1.37	2.02	0.81
Lead	MG/L	*	-				0.003	
Magnesium	MG/L	-	-	20.5	29.7	23.0	22.0	26.9
Manganese	MG/L	-	-	0.128	0.13 J+	0.292	0.188	0.18 J+
Nickel	MG/L	-	-					
Potassium	MG/L	-	-	2.13	1.7 J+	2.03	1.70	3.4 J+
Silver	MG/L	0.1	-					
Sodium	MG/L	-	-	94.4	121	107	94.6	326
Vanadium	MG/L	0.14	-			2.19E-04		
Zinc	MG/L	*	-	0.019		0.029	0.020	
Radionuclides								
Bismuth 212 (Insoluble)	PCI/L	-	-					
Bismuth 212 (Soluble)	PCI/L	-	-					
Cesium 134 (Soluble)	PCI/L	-	80					

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08
Sample ID				SW-08-DUP
Matrix				Surface Water
Depth Interval (ft)				-
Date Sampled				05/15/06
Parameter	**Units**	**(1)**	**(2)**	Field Duplicate (1-1)
Volatile Organic Compounds				
Acetone	UG/L	-	-	
Bromodichloromethane	UG/L	-	-	
Chloroform	UG/L	-	-	NA
Semivolatile Organic Compounds				
Benzo(b)fluoranthene	UG/L	-	-	
Benzo(g,h,i)perylene	UG/L	-	-	
Benzo(k)fluoranthene	UG/L	-	-	
bis(2-Ethylhexyl)phthalate	UG/L	-	-	
Fluoranthene	UG/L	-	-	
Pyrene	UG/L	-	-	
Dioxins/Furans				
2,3,7,8-TCDD	NG/L	-	-	
2,3,7,8-TCDF	NG/L	-	-	
Metals				
Aluminum	MG/L	0.1	-	0.28
Barium	MG/L	-	-	0.082
Calcium	MG/L	-	-	98.7
Chromium	MG/L	-	-	
Cobalt	MG/L	-	-	
Copper	MG/L	*	-	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

Flags assigned during chemistry validation are shown.

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Concentration Exceeds (2)

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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08
Sample ID				SW-08-DUP
Matrix				Surface Water
Depth Interval (ft)				-
Date Sampled				05/15/06
Parameter	**Units**	**(1)**	**(2)**	Field Duplicate (1-1)
Metals				
Iron	MG/L	0.3	-	1.4
Lead	MG/L	*	-	
Magnesium	MG/L	-	-	27.1
Manganese	MG/L	-	-	0.27 J+
Nickel	MG/L	-	-	
Potassium	MG/L	-	-	3.5 J+
Silver	MG/L	0.1	-	
Sodium	MG/L	-	-	325
Vanadium	MG/L	0.14	-	
Zinc	MG/L	*	-	0.014
Radionuclides				
Bismuth 212 (Insoluble)	PCI/L	-	-	
Bismuth 212 (Soluble)	PCI/L	-	-	
Cesium 134 (Soluble)	PCI/L	-	80	

(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B.

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-02	SW-02
Sample ID		SW-1	SED-1	SW-01	SW-2	SED-2
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/KG	32 J	489	110	32 J	164
Chlorobenzene	UG/KG					9
Methyl ethyl ketone (2-Butanone)	UG/KG		100	28 J		33
Toluene	UG/KG					
Semivolatile Organic Compounds						
2-Methylphenol (o-cresol)	UG/KG					
4-Methylphenol (p-cresol)	UG/KG	NA	NA		NA	NA
Acenaphthylene	UG/KG			150 J		
Anthracene	UG/KG			110 J		
Benzo(a)anthracene	UG/KG		804	460 J	491	415
Benzo(a)pyrene	UG/KG		1,690	760 J	671 J	758
Benzo(b)fluoranthene	UG/KG		2,310	1,800	913 J	1,080
Benzo(g,h,i)perylene	UG/KG		863	530 J	290 J	349
Benzo(k)fluoranthene	UG/KG		2,100	1,800	815 J	916
bis(2-Ethylhexyl)phthalate	UG/KG		1,680	240 J		1,010
Carbazole	UG/KG			66 J		
Chrysene	UG/KG		1,290	720 J	713	719
Dibenz(a,h)anthracene	UG/KG		243	110 J		
Fluoranthene	UG/KG		2,000	1,100	1,180	1,330
Fluorene	UG/KG					
Indeno(1,2,3-cd)pyrene	UG/KG		787	480 J	254 J	311
Phenanthrene	UG/KG		528	320 J	446	419
Pyrene	UG/KG		3,270	820 J	1,470	1,270

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-02	SW-02
Sample ID		SW-1	SED-1	SW-01	SW-2	SED-2
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1248	UG/KG					102
Aroclor 1254	UG/KG					62
Aroclor 1260	UG/KG		37.1			30.7
Metals						
Aluminum	MG/KG	8,810	10,600	5,880 J+	4,690	9,700
Antimony	MG/KG	2.13 J-			1.63 J-	
Arsenic	MG/KG	3.50	13.4	6.0	4.28	5.70
Barium	MG/KG	58.3	241 J-	66.6 J+	46.2	123 J-
Beryllium	MG/KG					
Cadmium	MG/KG		5.15	1.2	1.32	2.86
Calcium	MG/KG	20,100 J+	29,700	7,660	45,900 J+	49,100
Chromium	MG/KG	18.3	31.6	12.0	16.2	31.4
Cobalt	MG/KG	7.37	8.73	4.2	4.39	9.26
Copper	MG/KG	22.4	72.6	21.7	26.9	67.7
Iron	MG/KG	16,400	51,000	16,600 J+	11,900	21,100
Lead	MG/KG	36.5	302 J-	46.2	66.0	94.8 J-
Magnesium	MG/KG	7,770	6,970	2,550 J+	14,100	17,900
Manganese	MG/KG	276 J-	2,500	308	355 J-	543
Mercury	MG/KG	0.088	0.127		0.055	0.118
Nickel	MG/KG	20.6	25.5	11.1	12.1	29.1
Potassium	MG/KG	893	1,500	611	572	2,140
Selenium	MG/KG	2.89	5.34		3.89	4.58
Silver	MG/KG		1.35			0.52

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-02	SW-02
Sample ID		SW-1	SED-1	SW-01	SW-2	SED-2
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**					
Metals						
Sodium	MG/KG	554	777	638	482	513
Thallium	MG/KG		1.72			
Vanadium	MG/KG	16.2	29.6	14.8	10.9	21.9
Zinc	MG/KG	157	560	178 J+	273	424
Miscellaneous Parameters						
Cyanide	MG/KG		1.73	3.5 J-		1.88
Percent Dry	PERCENT	40.6	NA	NA	42.0	NA

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-03	SW-03	SW-03	SW-03
Sample ID		SW-02	SW-3	SW-3-DUP	SED-3	SW-03
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	0.0-0.5
Date Sampled		05/15/06	05/03/04	05/03/04	05/03/05	05/15/06
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Acetone	UG/KG	32 J	19 J		126	56
Chlorobenzene	UG/KG	2 J				
Methyl ethyl ketone (2-Butanone)	UG/KG				29	13 J
Toluene	UG/KG					8 J
Semivolatile Organic Compounds						
2-Methylphenol (o-cresol)	UG/KG					
4-Methylphenol (p-cresol)	UG/KG	230 J	NA	NA	NA	280 J
Acenaphthylene	UG/KG	42 J				68 J
Anthracene	UG/KG	43 J				53 J
Benzo(a)anthracene	UG/KG	230 J	405	238	417	420 J
Benzo(a)pyrene	UG/KG	340 J	416	286	622	620 J
Benzo(b)fluoranthene	UG/KG	780	481	357	847	1,400
Benzo(g,h,i)perylene	UG/KG	240 J	142	119	251	340 J
Benzo(k)fluoranthene	UG/KG	790	432	334	641	1,400
bis(2-Ethylhexyl)phthalate	UG/KG	200 J			1,060	240 J
Carbazole	UG/KG	29 J				46 J
Chrysene	UG/KG	330 J	435	318	665	580 J
Dibenz(a,h)anthracene	UG/KG	57 J				88 J
Fluoranthene	UG/KG	550	540	361	1,450	840
Fluorene	UG/KG					
Indeno(1,2,3-cd)pyrene	UG/KG	220 J	157	118	241	330 J
Phenanthrene	UG/KG	170 J	147		576	220 J
Pyrene	UG/KG	400 J	576	370	1,200	600 J

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-03	SW-03	SW-03	SW-03
Sample ID		SW-02	SW-3	SW-3-DUP	SED-3	SW-03
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	0.0-0.5
Date Sampled		05/15/06	05/03/04	05/03/04	05/03/05	05/15/06
Parameter	Units			Field Duplicate (1-1)		
Polychlorinated Biphenyls						
Aroclor 1248	UG/KG					
Aroclor 1254	UG/KG					
Aroclor 1260	UG/KG				3.52	
Metals						
Aluminum	MG/KG	6,840 J+	8,840	5,520	14,800	6,270 J+
Antimony	MG/KG		2.19 J-	1.49 J-		
Arsenic	MG/KG	4.2	5.87	3.42	8.43	
Barium	MG/KG	123 J+	116	38.8	106 J-	43.0 J+
Beryllium	MG/KG	0.34	0.60		0.57	
Cadmium	MG/KG	0.94			1.99	0.39
Calcium	MG/KG	45,200	53,600 J+	33,200 J+	22,200	22,800
Chromium	MG/KG	12.6	35.5	40.5	27.8	31.3
Cobalt	MG/KG	6.6	6.54	3.87	7.07	5.5
Copper	MG/KG	23.8	20.6	13.5	43.6	17.2
Iron	MG/KG	15,300 J+	15,000	9,640	17,900	11,300 J+
Lead	MG/KG	25.8	29.5	18.7	68.8 J-	19.1
Magnesium	MG/KG	16,000 J+	20,400	13,500	6,640	9,560 J+
Manganese	MG/KG	361	643 J-	313 J-	331	283
Mercury	MG/KG		0.050	0.047	0.137	0.044
Nickel	MG/KG	17.4	16.9	10.1	22.1	15.5
Potassium	MG/KG	1,240	960	850	1,200	1,040
Selenium	MG/KG		4.51		2.86	
Silver	MG/KG					

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-03	SW-03	SW-03	SW-03
Sample ID		SW-02	SW-3	SW-3-DUP	SED-3	SW-03
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	0.0-0.5
Date Sampled		05/15/06	05/03/04	05/03/04	05/03/05	05/15/06
Parameter	Units			Field Duplicate (1-1)		
Metals						
Sodium	MG/KG	281	420	352	1,440	343
Thallium	MG/KG					
Vanadium	MG/KG	14.3	16.9	11.4	27.0	13.2
Zinc	MG/KG	133 J+	119	73.7	331	77.7 J+
Miscellaneous Parameters						
Cyanide	MG/KG					
Percent Dry	PERCENT	NA	54.0	60.9	NA	NA

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-4	SED-4	SW-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/KG	25 J	37	42 J		39
Chlorobenzene	UG/KG					
Methyl ethyl ketone (2-Butanone)	UG/KG		14			
Toluene	UG/KG					
Semivolatile Organic Compounds						
2-Methylphenol (o-cresol)	UG/KG			64 J		
4-Methylphenol (p-cresol)	UG/KG	NA	NA	220 J	NA	NA
Acenaphthylene	UG/KG			70 J		
Anthracene	UG/KG			80 J		
Benzo(a)anthracene	UG/KG	205		380 J		
Benzo(a)pyrene	UG/KG	221 J	97	480 J		
Benzo(b)fluoranthene	UG/KG	236 J		790 J		
Benzo(g,h,i)perylene	UG/KG			240 J		
Benzo(k)fluoranthene	UG/KG	289 J	101	220 J		
bis(2-Ethylhexyl)phthalate	UG/KG		135			135
Carbazole	UG/KG			52 J		
Chrysene	UG/KG	244		420 J		
Dibenz(a,h)anthracene	UG/KG			63 J		
Fluoranthene	UG/KG	449	128	800 J		
Fluorene	UG/KG					
Indeno(1,2,3-cd)pyrene	UG/KG			220 J		
Phenanthrene	UG/KG	243		330 J		
Pyrene	UG/KG	488	146	540 J		

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-4	SED-4	SW-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1248	UG/KG					
Aroclor 1254	UG/KG					
Aroclor 1260	UG/KG					
Metals						
Aluminum	MG/KG	5,100	4,240	8,000 J+	6,970	9,140
Antimony	MG/KG	1.95 J-				
Arsenic	MG/KG	3.11	1.56		3.05	3.48
Barium	MG/KG	55.5	24.5 J-	63.4 J+	41.6	46.6 J-
Beryllium	MG/KG					
Cadmium	MG/KG			0.83		
Calcium	MG/KG	59,700 J+	66,100	32,600	6,070 J+	3,710
Chromium	MG/KG	11.9	7.86	13.6	9.79	14.6
Cobalt	MG/KG	4.12	2.48	4.6	4.53	4.96
Copper	MG/KG	17.7	12.4	23.2	13.9	21.4
Iron	MG/KG	14,100	5,990	12,400 J+	11,200	12,500
Lead	MG/KG	34.4	36.5 J-	59.4	26.1	25.3 J-
Magnesium	MG/KG	14,900	8,970	13,200 J+	3,690	2,900
Manganese	MG/KG	397 J-	144	296	457 J-	570
Mercury	MG/KG	0.085	0.021	0.062	0.088	0.05
Nickel	MG/KG	11.0	10.3	14.1	9.16	10.9
Potassium	MG/KG	527	574	769	545	983
Selenium	MG/KG	3.75	4.15		1.69	
Silver	MG/KG	0.52				

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-4	SED-4	SW-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/03/04	05/03/05
Parameter	**Units**					
Metals						
Sodium	MG/KG	630	258	693	214	117
Thallium	MG/KG					
Vanadium	MG/KG	13.2	18.3	18.0	14.4	18.8
Zinc	MG/KG	157	78.1	126 J+	116	124
Miscellaneous Parameters						
Cyanide	MG/KG					
Percent Dry	PERCENT	39.1	NA	NA	68.6	NA

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-07
Sample ID		SW-6	SED-6	SED-9	SW-06	SW-7
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-	0.0-0.5	-
Date Sampled		05/03/04	05/03/05	05/03/05	05/15/06	05/03/04
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Acetone	UG/KG	20 J	22	48		
Chlorobenzene	UG/KG					
Methyl ethyl ketone (2-Butanone)	UG/KG					
Toluene	UG/KG					
Semivolatile Organic Compounds						
2-Methylphenol (o-cresol)	UG/KG					
4-Methylphenol (p-cresol)	UG/KG	NA	NA	NA		NA
Acenaphthylene	UG/KG					
Anthracene	UG/KG				22 J	
Benzo(a)anthracene	UG/KG				97 J	
Benzo(a)pyrene	UG/KG				90 J	
Benzo(b)fluoranthene	UG/KG				190 J	
Benzo(g,h,i)perylene	UG/KG				38 J	
Benzo(k)fluoranthene	UG/KG				190 J	
bis(2-Ethylhexyl)phthalate	UG/KG		115	136		
Carbazole	UG/KG					
Chrysene	UG/KG				97 J	
Dibenz(a,h)anthracene	UG/KG					
Fluoranthene	UG/KG		135		230 J	
Fluorene	UG/KG				23 J	
Indeno(1,2,3-cd)pyrene	UG/KG				42 J	
Phenanthrene	UG/KG		112		160 J	
Pyrene	UG/KG				130 J	

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-07
Sample ID		SW-6	SED-6	SED-9	SW-06	SW-7
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-	0.0-0.5	-
Date Sampled		05/03/04	05/03/05	05/03/05	05/15/06	05/03/04
Parameter	Units			Field Duplicate (1-1)		
Polychlorinated Biphenyls						
Aroclor 1248	UG/KG					
Aroclor 1254	UG/KG					
Aroclor 1260	UG/KG					
Metals						
Aluminum	MG/KG	7,130	8,300	10,500	6,550 J+	2,120
Antimony	MG/KG	1.98 J-				
Arsenic	MG/KG	4.39	5.11	6.07	4.2	1.53
Barium	MG/KG	50.8	64.9 J-	81.6 J-	50.6 J+	16.1
Beryllium	MG/KG				0.32	
Cadmium	MG/KG				0.61	
Calcium	MG/KG	59,900 J+	40,700	43,500	36,200	32,900 J+
Chromium	MG/KG	11.3	14.1	17.3	9.3	3.59
Cobalt	MG/KG	6.29	9.31	9.55	5.9	2.06
Copper	MG/KG	15.0	34.3	36.5	25.4	2.52
Iron	MG/KG	13,800	16,300	18,200	13,000 J+	6,600
Lead	MG/KG	16.7	22.4 J-	22.4 J-	18.5	8.94
Magnesium	MG/KG	19,800	18,200	19,100	12,700 J+	10,700
Manganese	MG/KG	482 J-	539	629	439	368 J-
Mercury	MG/KG	0.063	0.035	0.021	0.034	0.036
Nickel	MG/KG	14.3	10.8	21.5	14.0	4.83
Potassium	MG/KG	1,070	1,280	1,870	1,060	233
Selenium	MG/KG	3.92	4.22	3.81		2.21
Silver	MG/KG			0.64		

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-07
Sample ID		SW-6	SED-6	SED-9	SW-06	SW-7
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-	0.0-0.5	-
Date Sampled		05/03/04	05/03/05	05/03/05	05/15/06	05/03/04
Parameter	Units			Field Duplicate (1-1)		
Metals						
Sodium	MG/KG	204	209	241		243
Thallium	MG/KG					
Vanadium	MG/KG	15.8	18.2	22.4	14.5	4.96
Zinc	MG/KG	98.7	145	149	94.3 J+	47.4
Miscellaneous Parameters						
Cyanide	MG/KG				1.1 J-	
Percent Dry	PERCENT	61.1	NA	NA	NA	64.1

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-08	SW-08	SW-08
Sample ID		SED-7	SW-07	SW-8	SED-8	SW-08
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	0.0-0.5
Date Sampled		05/03/05	05/15/06	05/03/04	05/03/05	05/15/06
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/KG	105	40 J		75	22 J
Chlorobenzene	UG/KG					
Methyl ethyl ketone (2-Butanone)	UG/KG	22				
Toluene	UG/KG					
Semivolatile Organic Compounds						
2-Methylphenol (o-cresol)	UG/KG					
4-Methylphenol (p-cresol)	UG/KG	NA		NA	NA	250 J
Acenaphthylene	UG/KG		86 J			
Anthracene	UG/KG		49 J			
Benzo(a)anthracene	UG/KG		300 J	397 J	225	460 J
Benzo(a)pyrene	UG/KG		290 J	399 J	284	540 J
Benzo(b)fluoranthene	UG/KG		590	429 J	346	1,100 J
Benzo(g,h,i)perylene	UG/KG		97 J	174 J		430 J
Benzo(k)fluoranthene	UG/KG		600	427 J	329	260 J
bis(2-Ethylhexyl)phthalate	UG/KG	159			649	
Carbazole	UG/KG					
Chrysene	UG/KG		310 J	419 J	264	540 J
Dibenz(a,h)anthracene	UG/KG		36 J			
Fluoranthene	UG/KG		350 J	601	416	860 J
Fluorene	UG/KG					
Indeno(1,2,3-cd)pyrene	UG/KG		99 J	134 J		360 J
Phenanthrene	UG/KG		43 J	326	227	350 J
Pyrene	UG/KG		360 J	1,430 J	755	620 J

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-08	SW-08	SW-08
Sample ID		SED-7	SW-07	SW-8	SED-8	SW-08
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	0.0-0.5
Date Sampled		05/03/05	05/15/06	05/03/04	05/03/05	05/15/06
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1248	UG/KG	118	34			
Aroclor 1254	UG/KG					
Aroclor 1260	UG/KG					
Metals						
Aluminum	MG/KG	5,510	4,360 J+	7,740	11,900	7,150 J+
Antimony	MG/KG			2.38 J-		
Arsenic	MG/KG	4.34		5.49	8.21	4.3
Barium	MG/KG	61.5 J-	42.6 J+	72.6	115 J-	55.4 J+
Beryllium	MG/KG				0.51	
Cadmium	MG/KG				1.52	0.72
Calcium	MG/KG	32,100	33,900	75,000 J+	1.07E+05	87,000
Chromium	MG/KG	9.95	6.7	12.4	23.7	14.7
Cobalt	MG/KG	5.55	4.6	5.66	7.09	5.2
Copper	MG/KG	21.3	12.1	34.3	62.2	34.2
Iron	MG/KG	17,000	12,100 J+	19,000	36,200	14,700 J+
Lead	MG/KG	22.6 J-	14.9	59.5	69.1 J-	41.1
Magnesium	MG/KG	12,400	11,600 J+	21,800	30,400	28,100 J+
Manganese	MG/KG	1,240	1,120	699 J-	1,440	503
Mercury	MG/KG	0.022		0.075	0.073	0.046
Nickel	MG/KG	12.0	9.5	17.5	23.2	15.7
Potassium	MG/KG	901	754	765	2,110	1,130
Selenium	MG/KG	3.52		6.05	8.29	
Silver	MG/KG			0.76	5.20	

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-08	SW-08	SW-08
Sample ID		SED-7	SW-07	SW-8	SED-8	SW-08
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	0.0-0.5
Date Sampled		05/03/05	05/15/06	05/03/04	05/03/05	05/15/06
Parameter	**Units**					
Metals						
Sodium	MG/KG	241	292	504	1,180	569
Thallium	MG/KG	1.14			1.47	
Vanadium	MG/KG	13.4	10.4	16.1	28.6	17.7
Zinc	MG/KG	124	74.3 J+	277	316	169 J+
Miscellaneous Parameters						
Cyanide	MG/KG	2.86		1.14	1.91	
Percent Dry	PERCENT	NA	NA	59.0	NA	NA

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08
Sample ID		SW-08-DUP
Matrix		Sediment
Depth Interval (ft)		0.0-0.5
Date Sampled		05/15/06
Parameter	**Units**	Field Duplicate (1-1)
Volatile Organic Compounds		
Acetone	UG/KG	16 J
Chlorobenzene	UG/KG	
Methyl ethyl ketone (2-Butanone)	UG/KG	11 J
Toluene	UG/KG	
Semivolatile Organic Compounds		
2-Methylphenol (o-cresol)	UG/KG	
4-Methylphenol (p-cresol)	UG/KG	
Acenaphthylene	UG/KG	
Anthracene	UG/KG	
Benzo(a)anthracene	UG/KG	360 J
Benzo(a)pyrene	UG/KG	500 J
Benzo(b)fluoranthene	UG/KG	1,200 J
Benzo(g,h,i)perylene	UG/KG	320 J
Benzo(k)fluoranthene	UG/KG	1,200 J
bis(2-Ethylhexyl)phthalate	UG/KG	
Carbazole	UG/KG	
Chrysene	UG/KG	460 J
Dibenz(a,h)anthracene	UG/KG	
Fluoranthene	UG/KG	720 J
Fluorene	UG/KG	
Indeno(1,2,3-cd)pyrene	UG/KG	280 J
Phenanthrene	UG/KG	290 J
Pyrene	UG/KG	500 J

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SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08
Sample ID		SW-08-DUP
Matrix		Sediment
Depth Interval (ft)		0.0-0.5
Date Sampled		05/15/06
Parameter	**Units**	Field Duplicate (1-1)
Polychlorinated Biphenyls		
Aroclor 1248	UG/KG	
Aroclor 1254	UG/KG	
Aroclor 1260	UG/KG	
Metals		
Aluminum	MG/KG	2,780 J+
Antimony	MG/KG	
Arsenic	MG/KG	
Barium	MG/KG	24.4 J+
Beryllium	MG/KG	
Cadmium	MG/KG	0.31
Calcium	MG/KG	38,200
Chromium	MG/KG	6.6
Cobalt	MG/KG	2.1
Copper	MG/KG	13.9
Iron	MG/KG	6,550 J+
Lead	MG/KG	18.0
Magnesium	MG/KG	13,000 J+
Manganese	MG/KG	235
Mercury	MG/KG	
Nickel	MG/KG	6.2
Potassium	MG/KG	505
Selenium	MG/KG	
Silver	MG/KG	

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SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08
Sample ID		SW-08-DUP
Matrix		Sediment
Depth Interval (ft)		0.0-0.5
Date Sampled		05/15/06
Parameter	**Units**	Field Duplicate (1-1)
Metals		
Sodium	MG/KG	345
Thallium	MG/KG	
Vanadium	MG/KG	7.6
Zinc	MG/KG	68.2 J+
Miscellaneous Parameters		
Cyanide	MG/KG	
Percent Dry	PERCENT	NA

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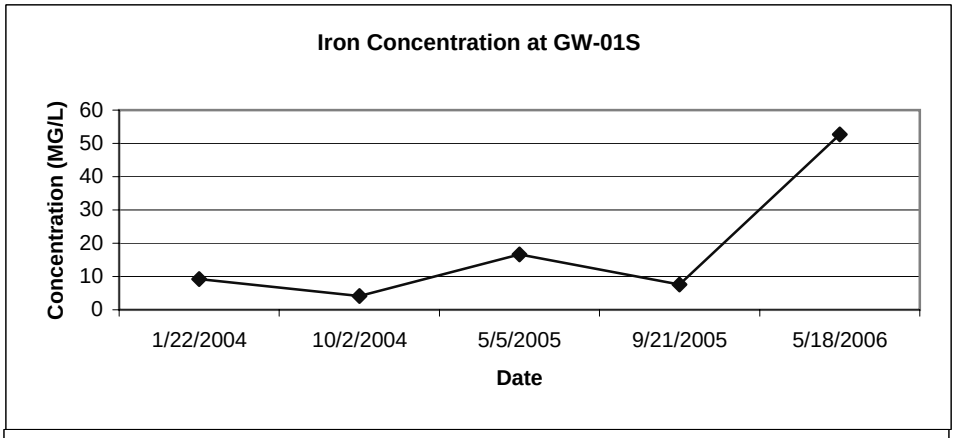
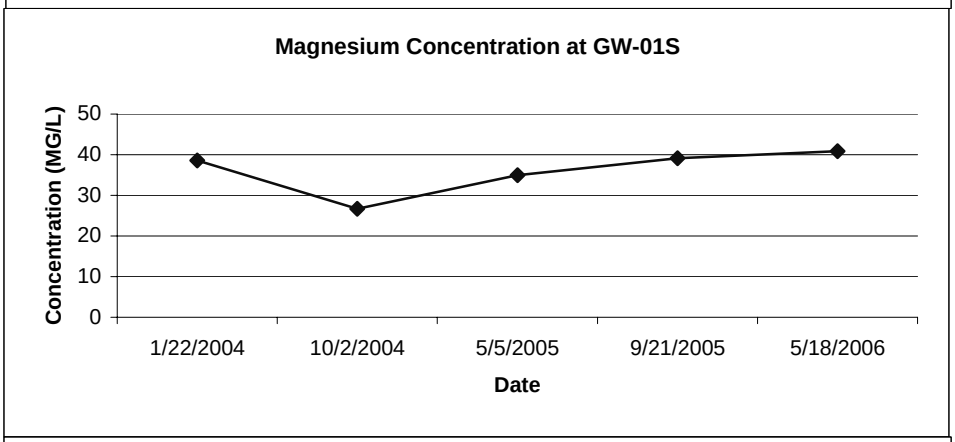
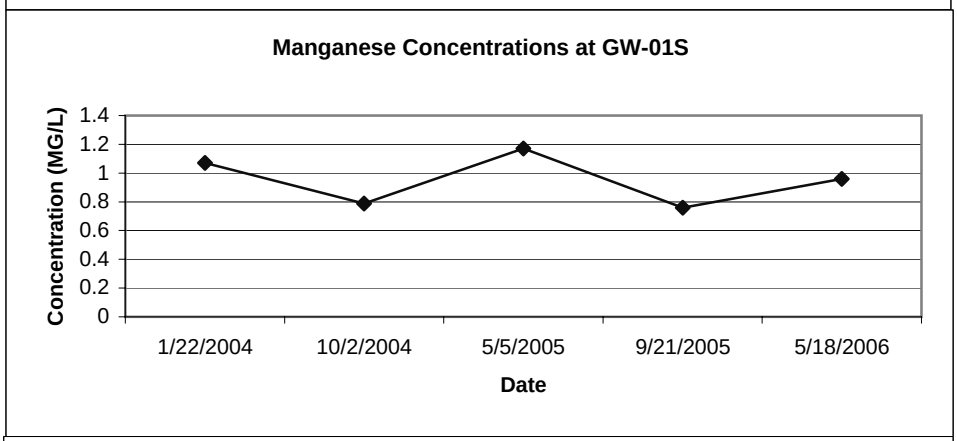
FIGURE 1
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-1S







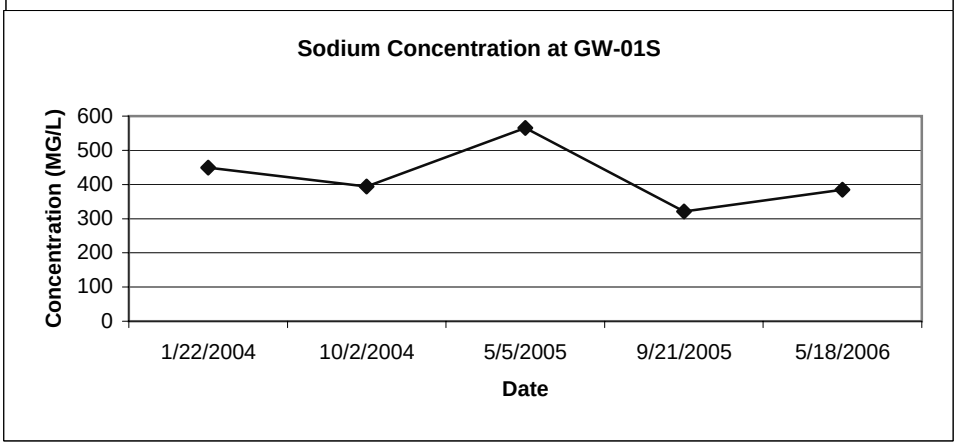
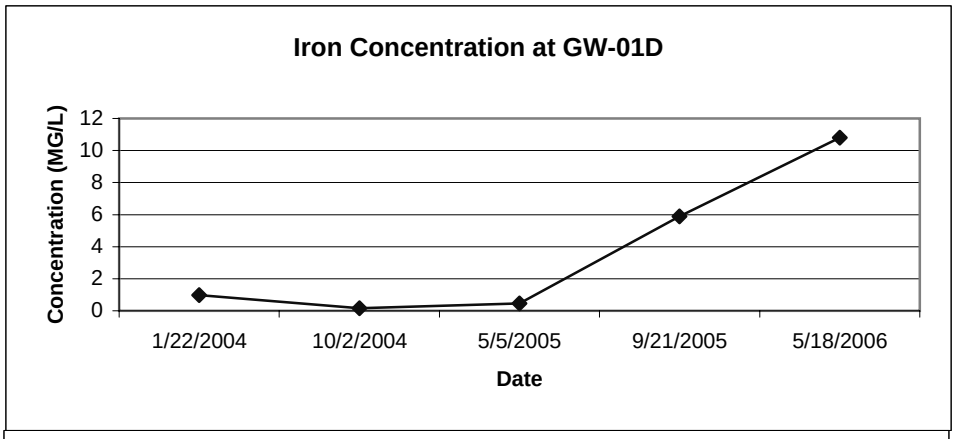
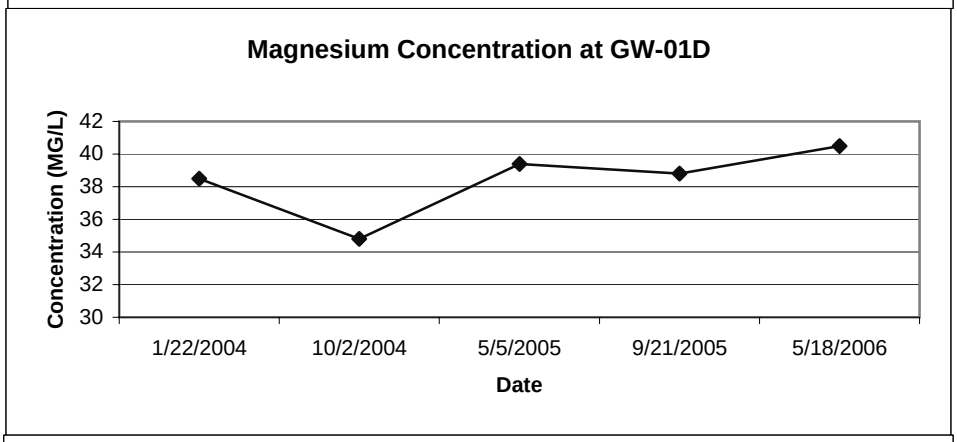


FIGURE 2
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-1D





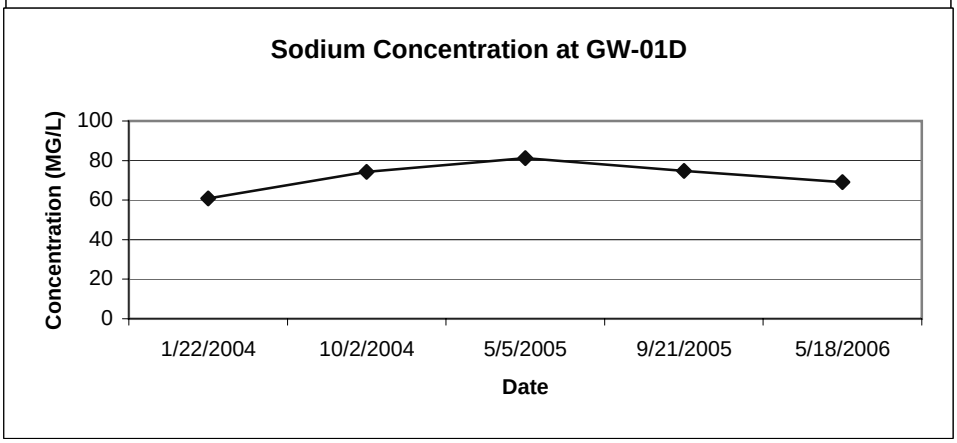
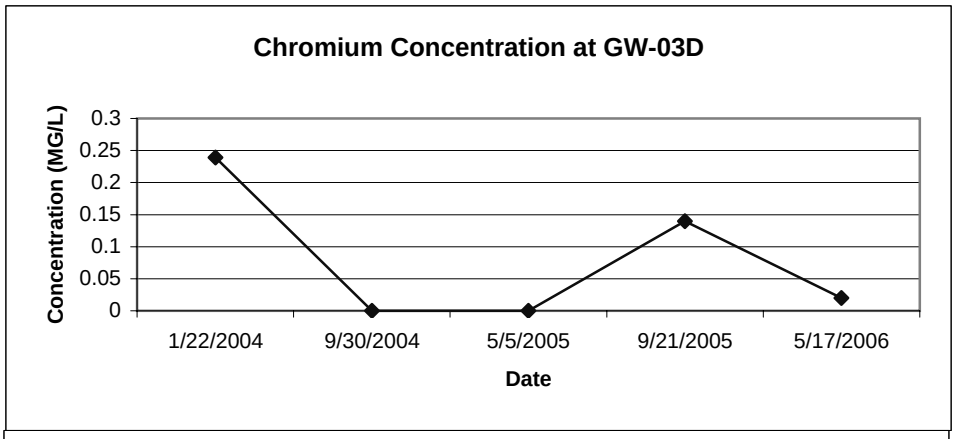
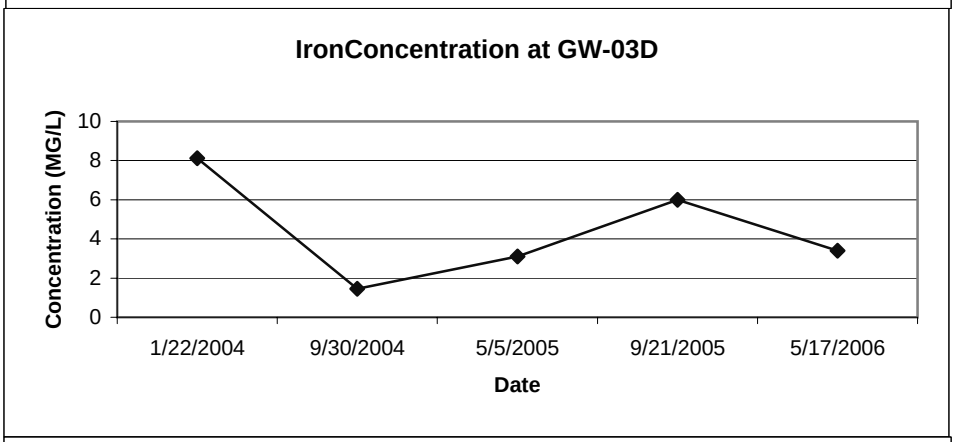
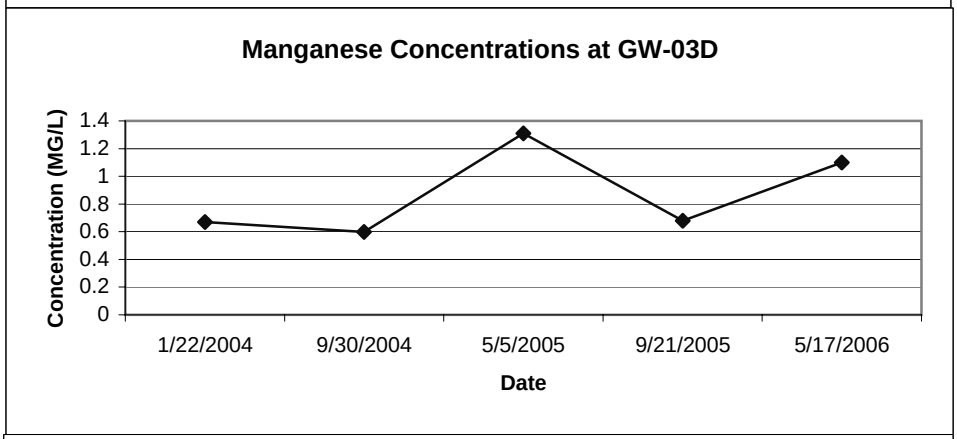


FIGURE 3
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-3D







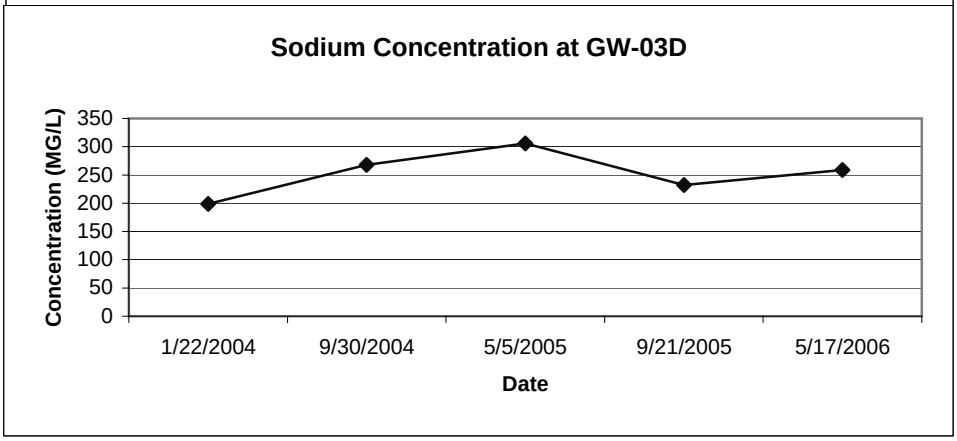
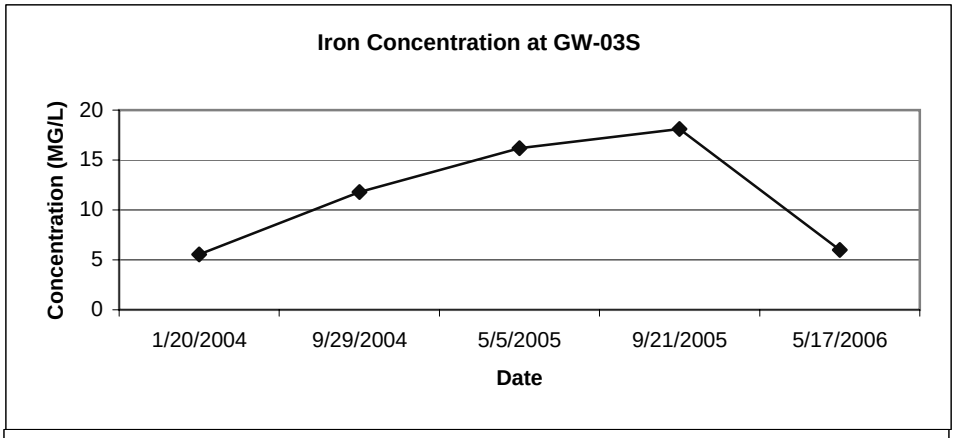
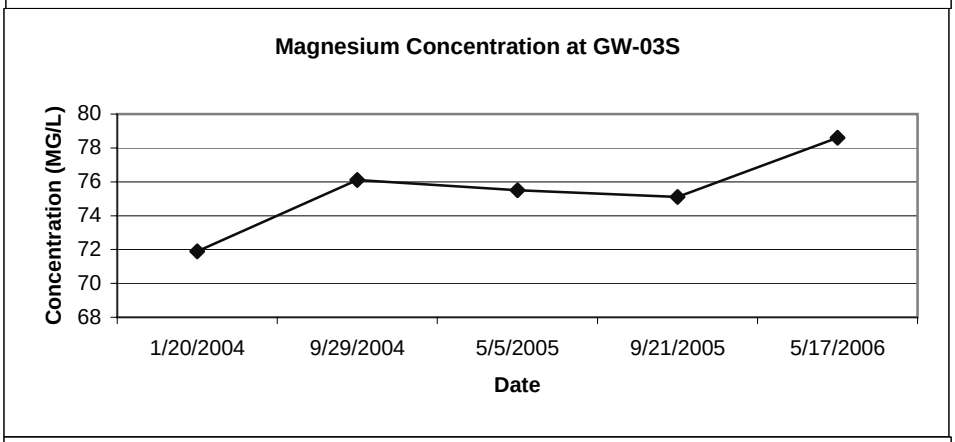
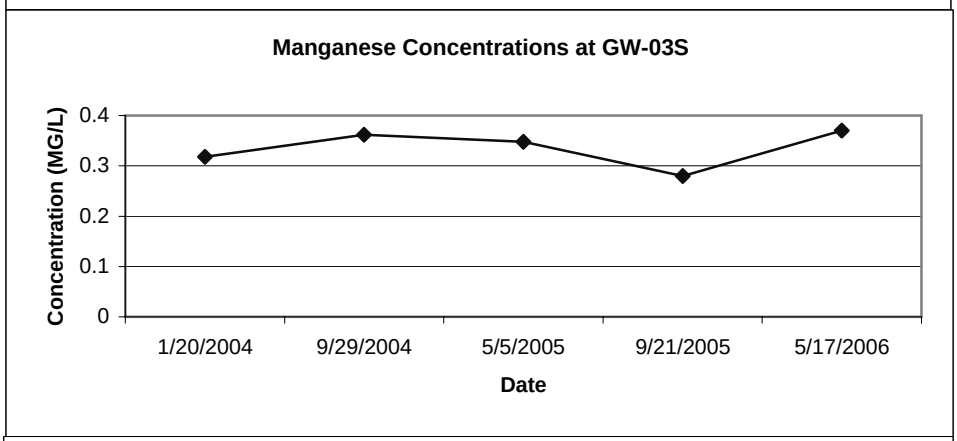


FIGURE 4
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-3S







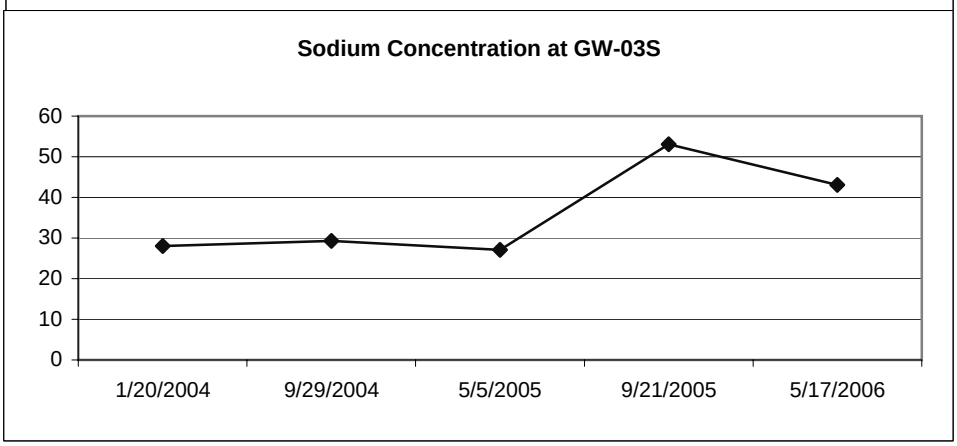
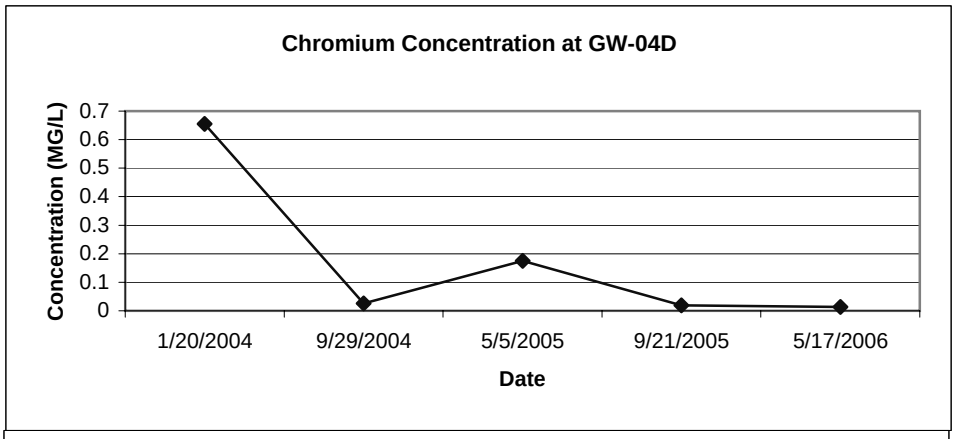
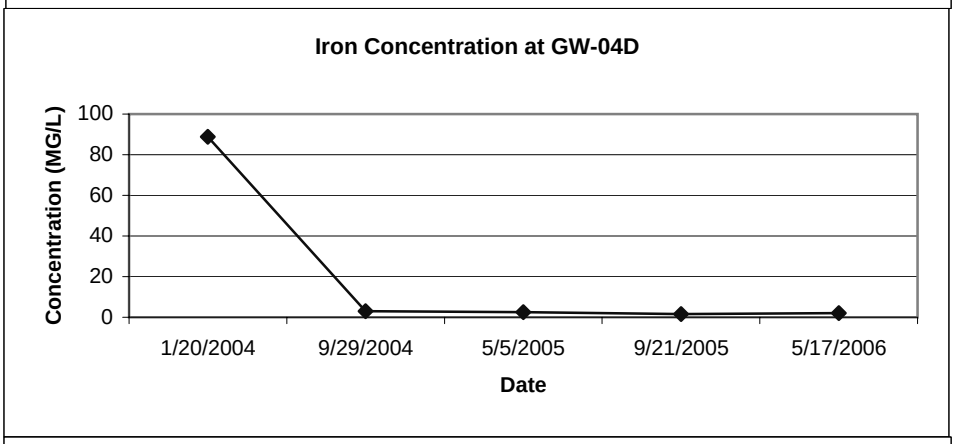
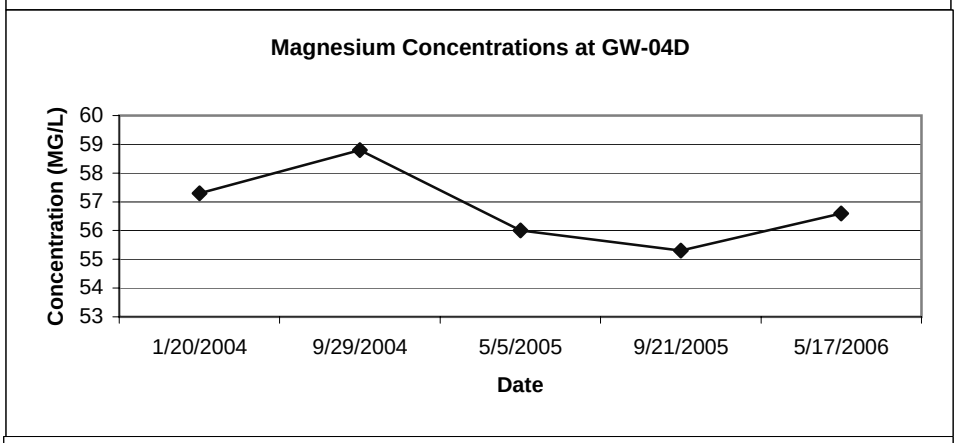


FIGURE 5
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-4D







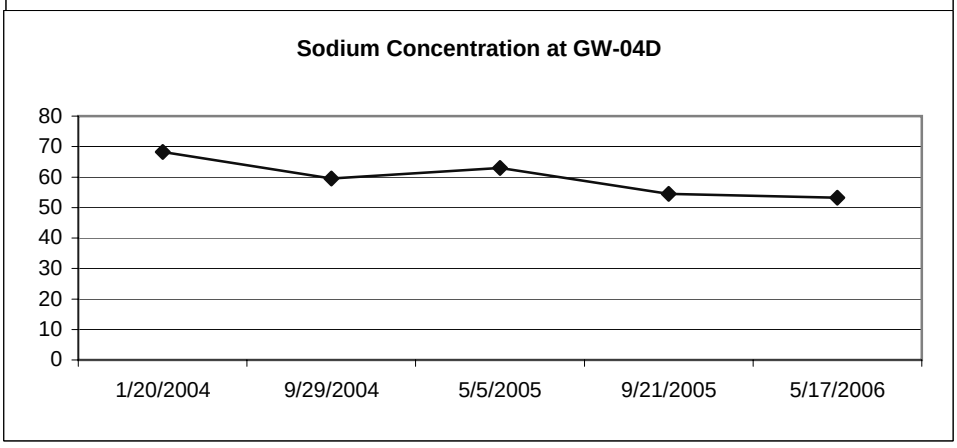


FIGURE 6
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-4S

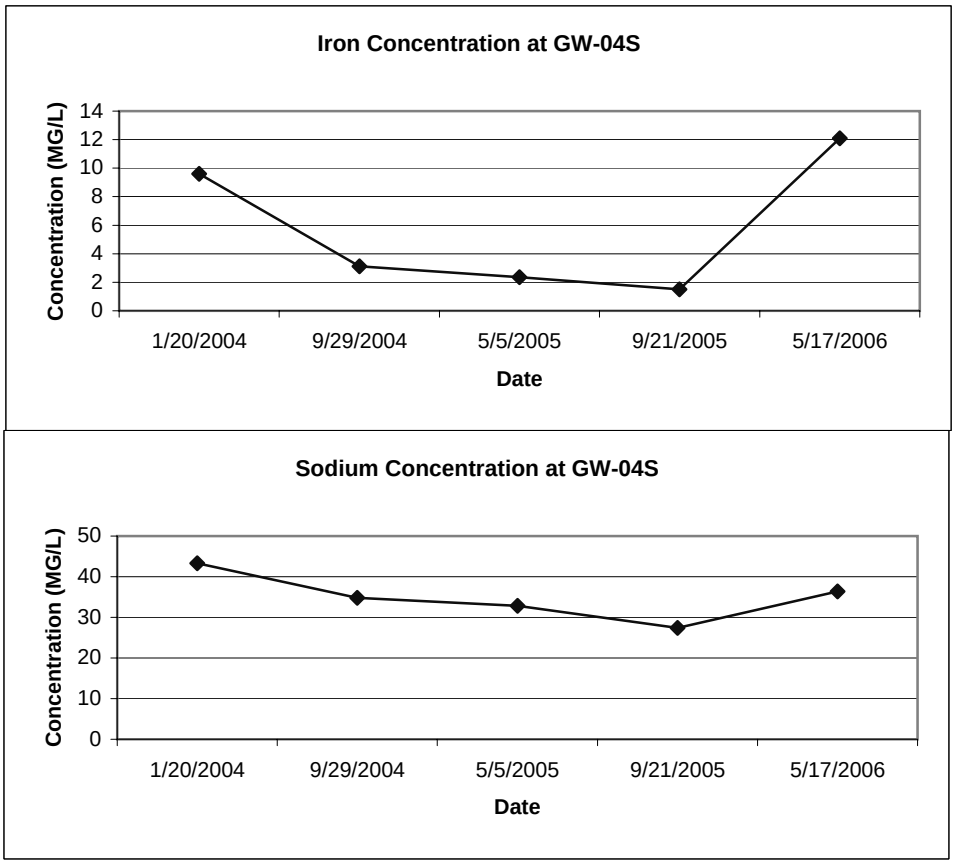
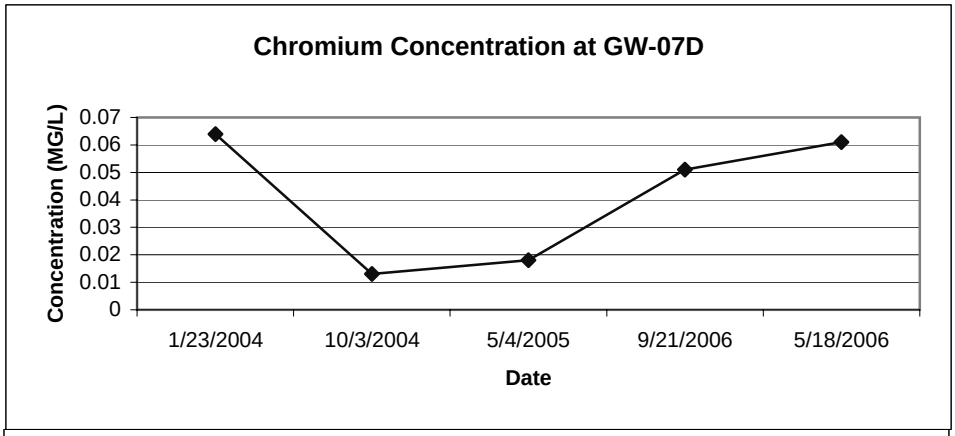
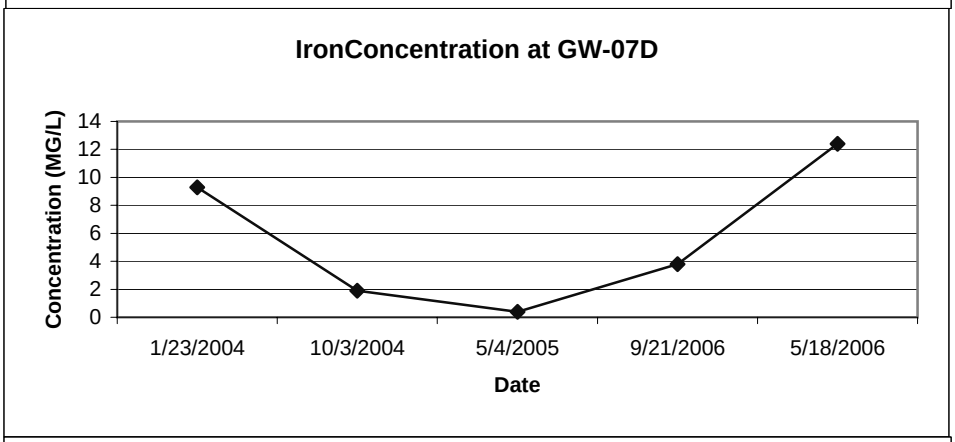
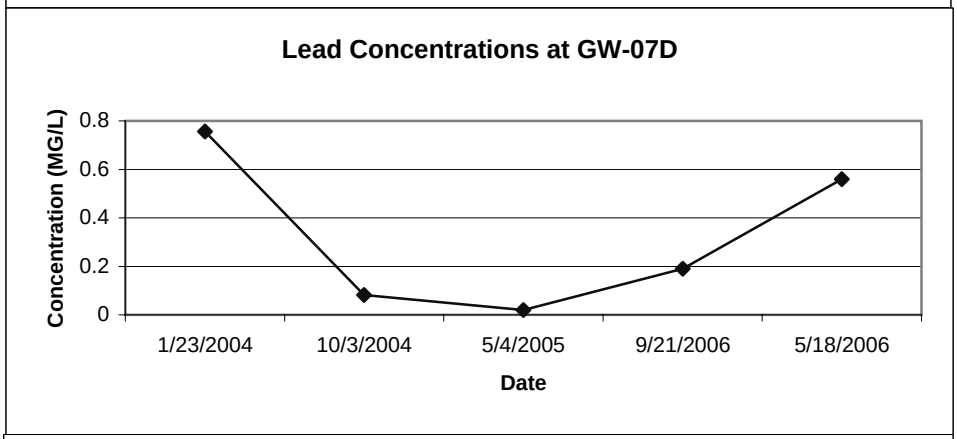


FIGURE 7
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-7D







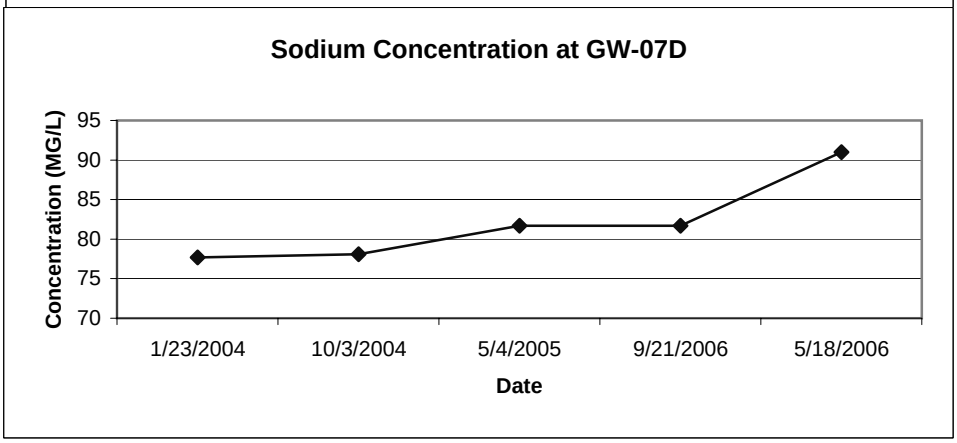


FIGURE 8
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-7S

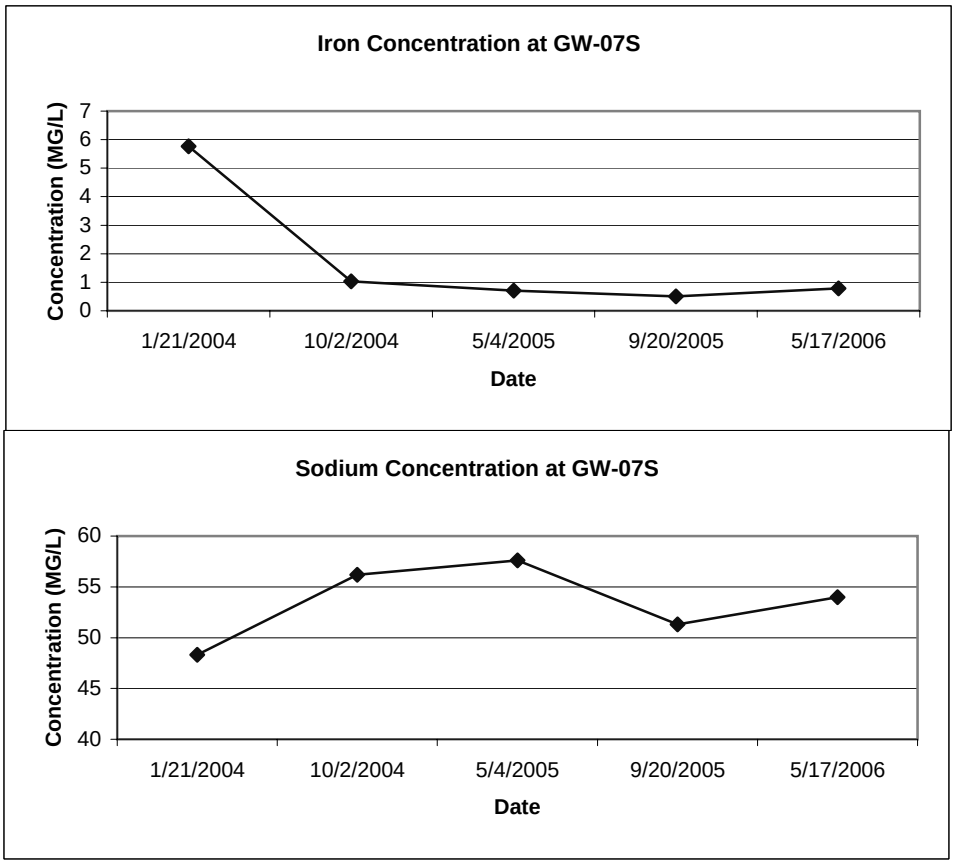
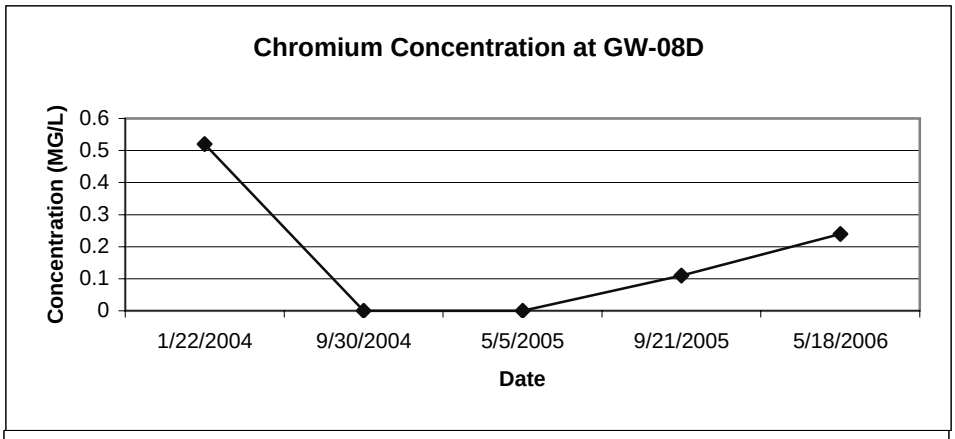
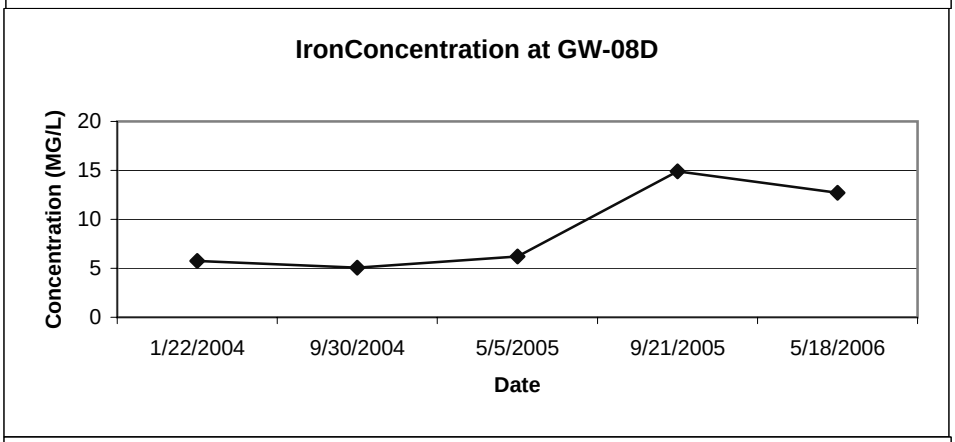
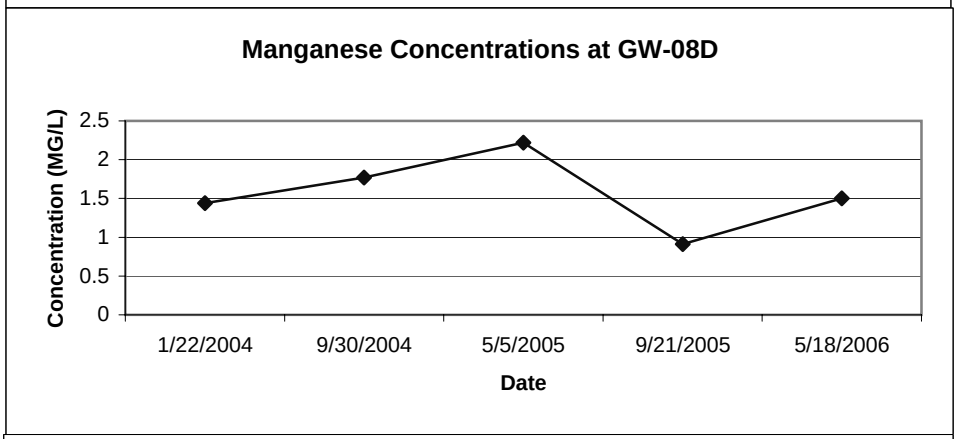


FIGURE 9
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-8D







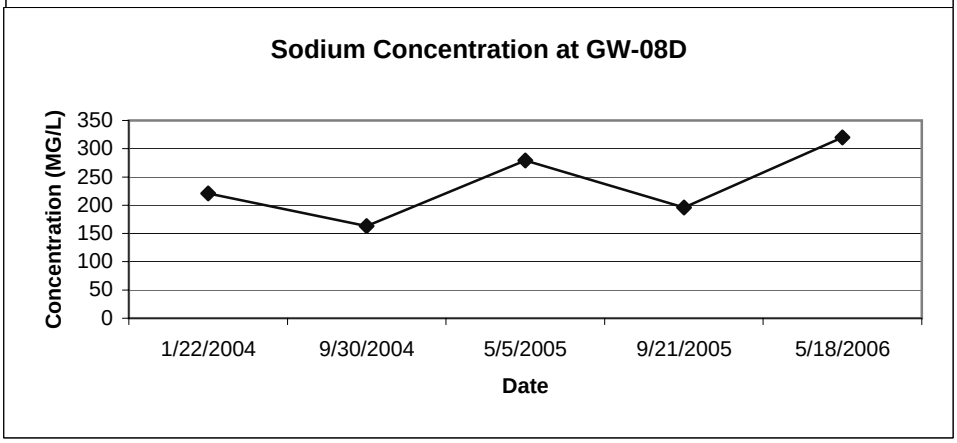
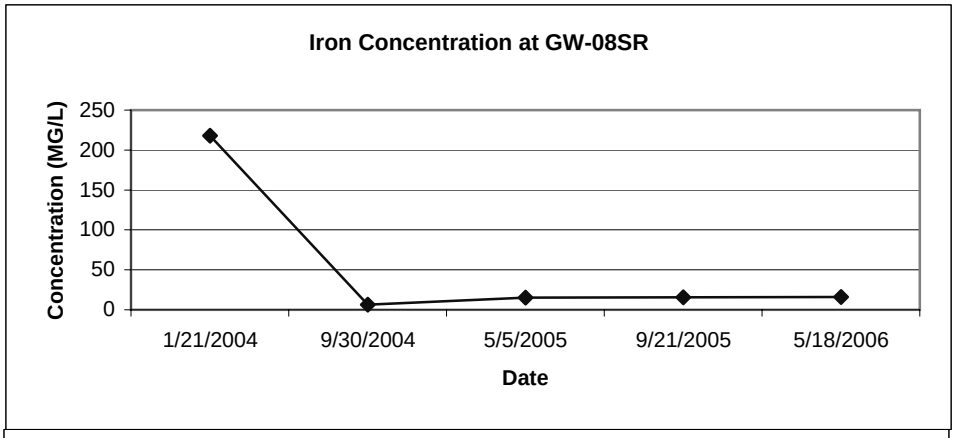
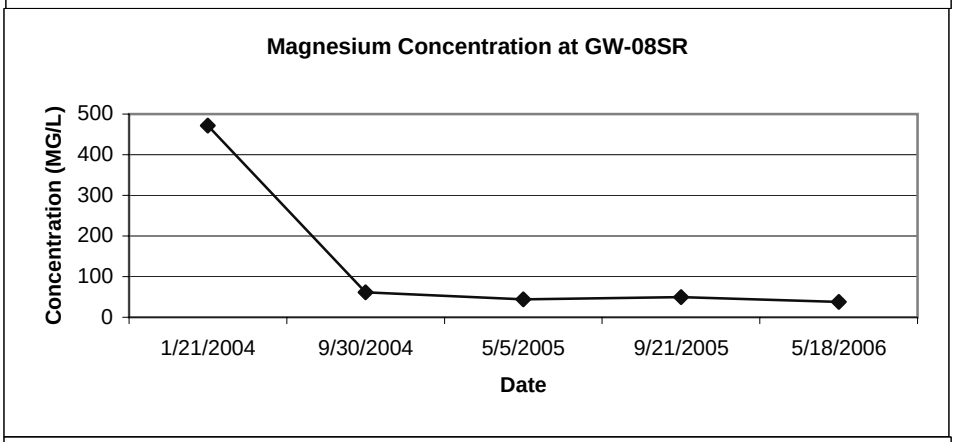
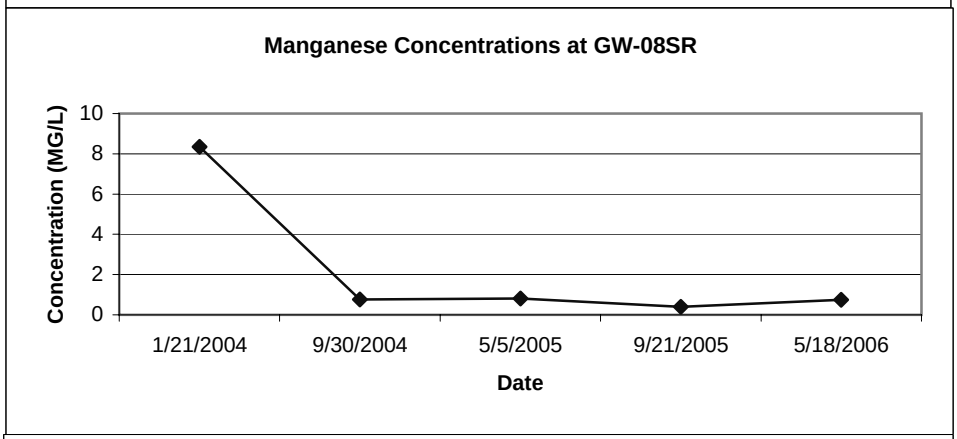


FIGURE 10
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-8SR







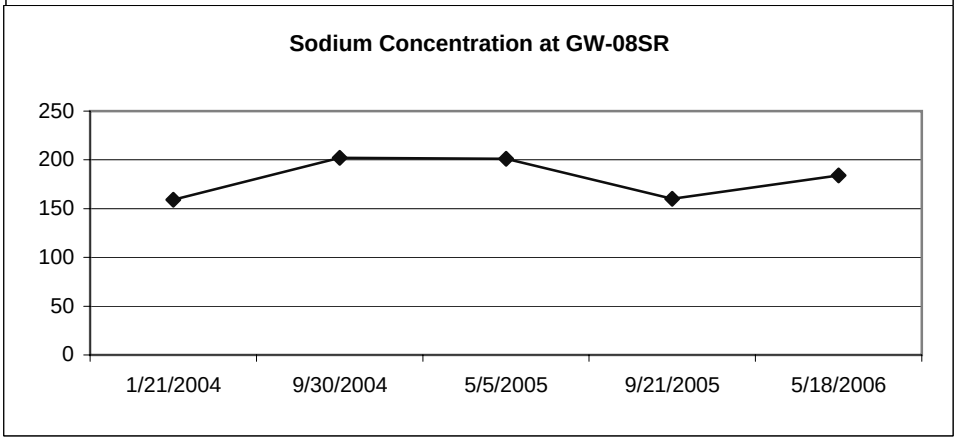
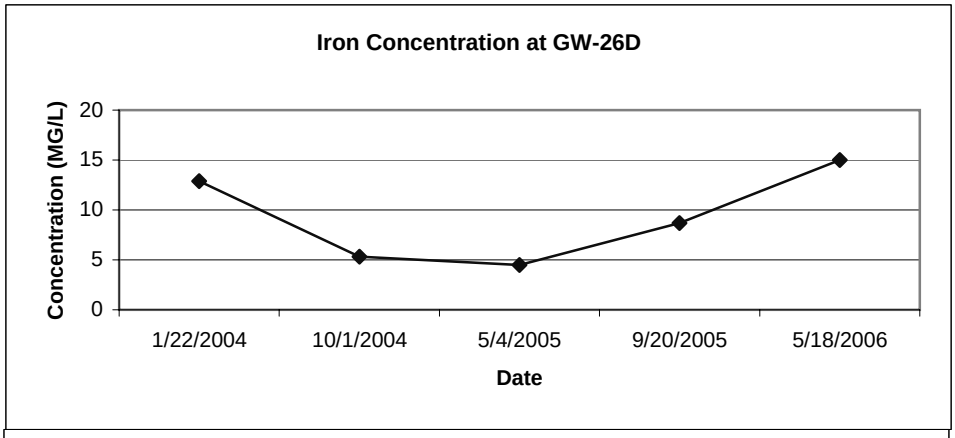
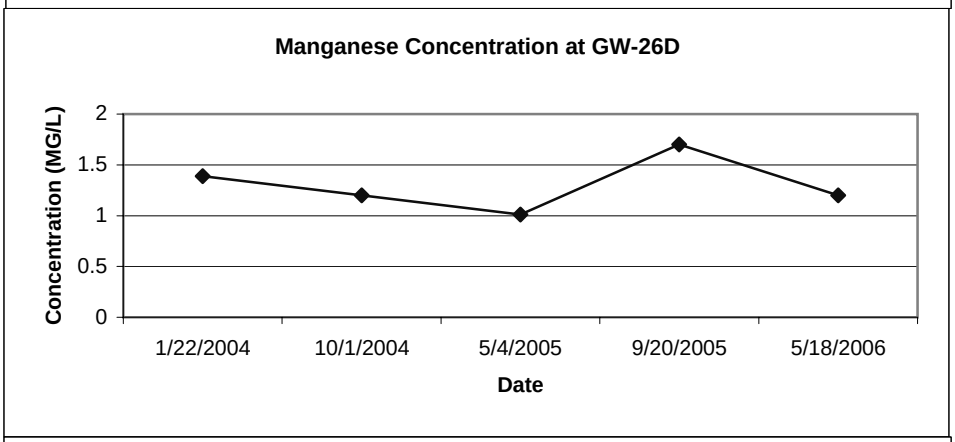


FIGURE 11
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-26D





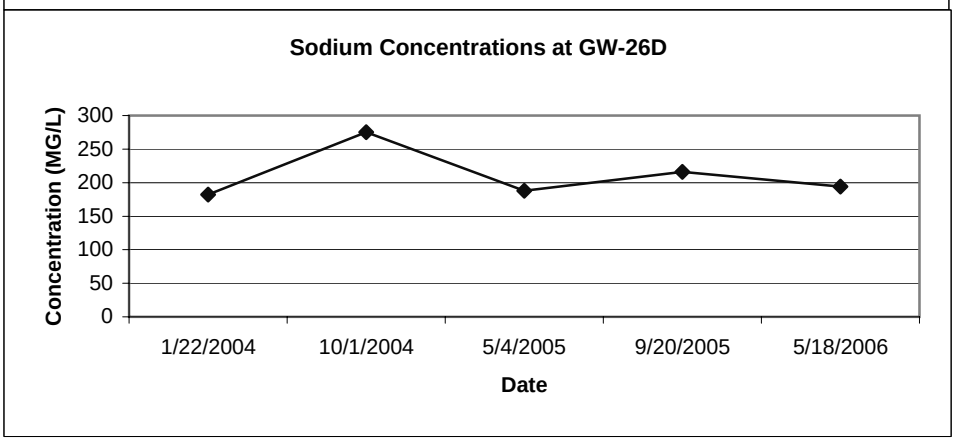
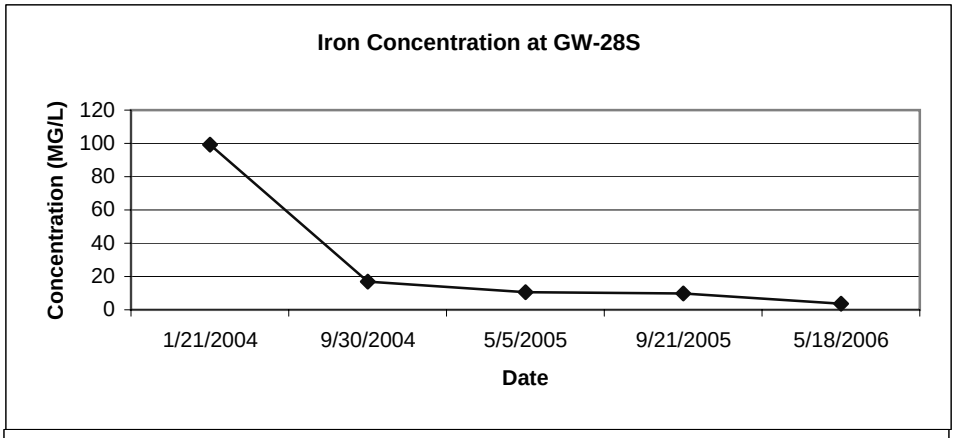
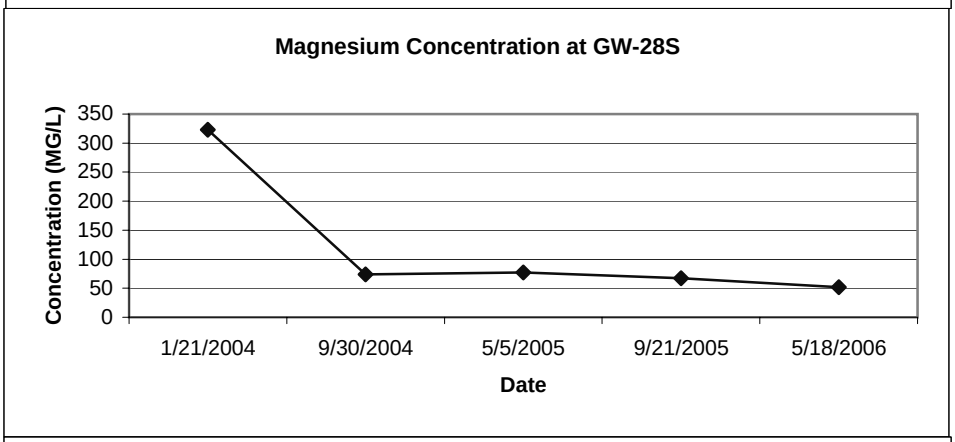
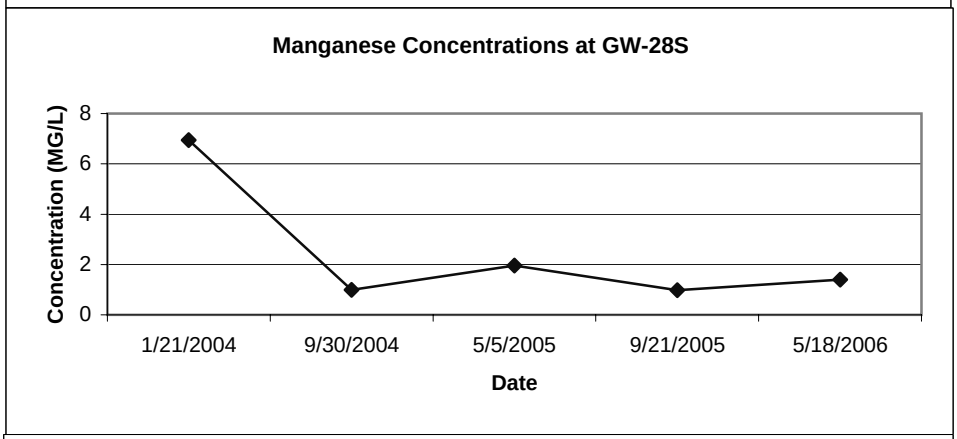


FIGURE 12
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-28S







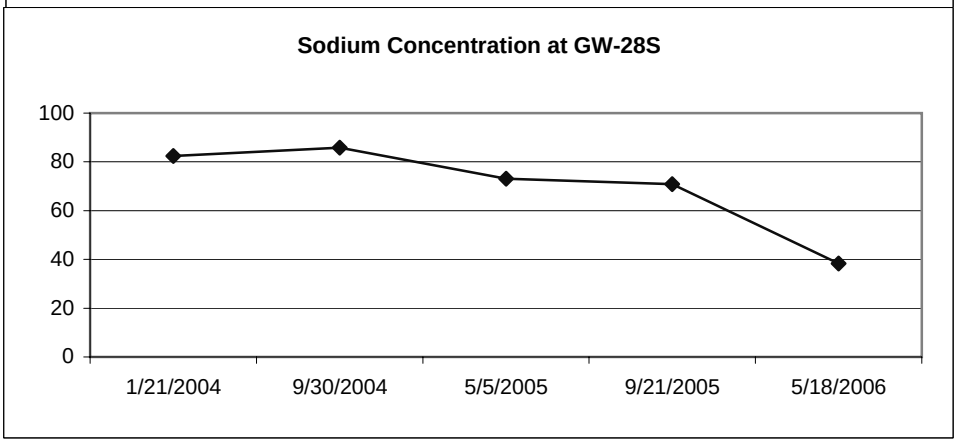
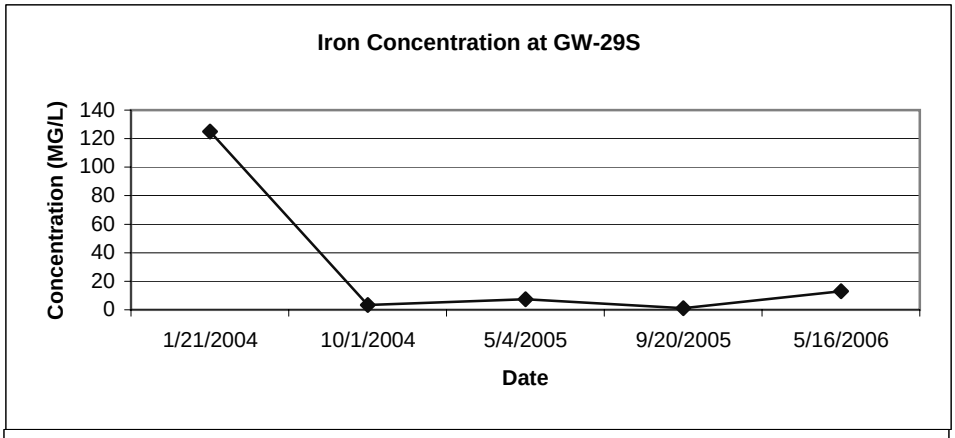
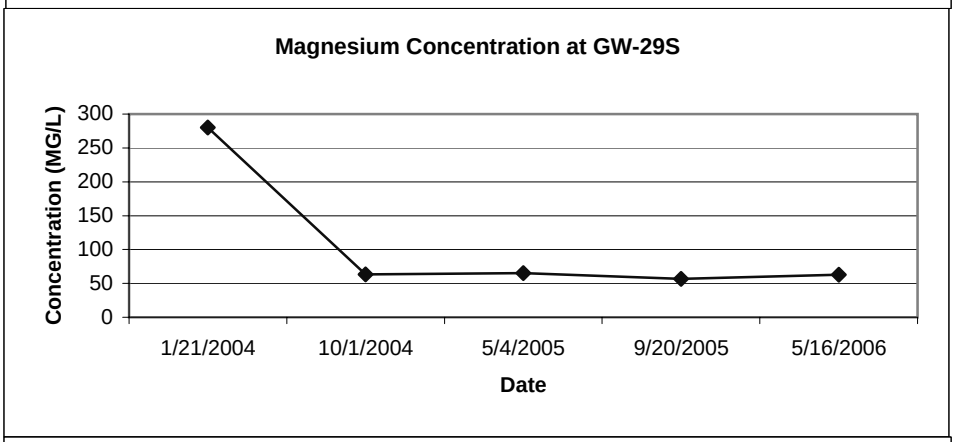
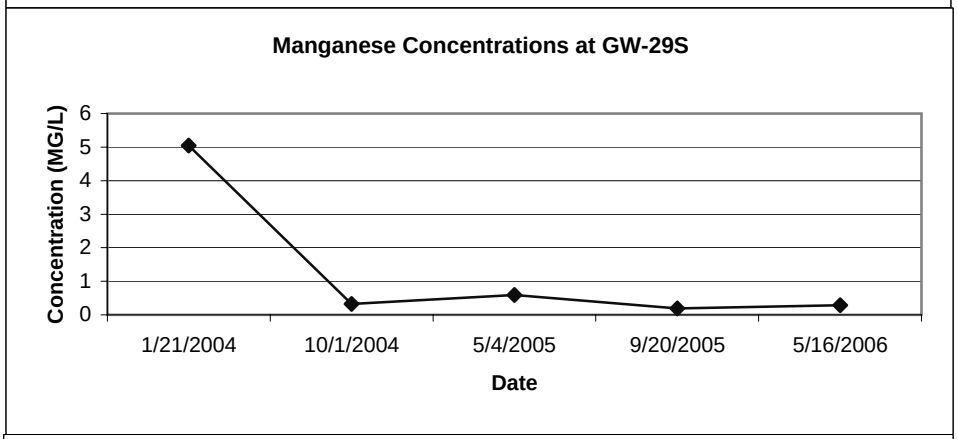


FIGURE 13
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-29S







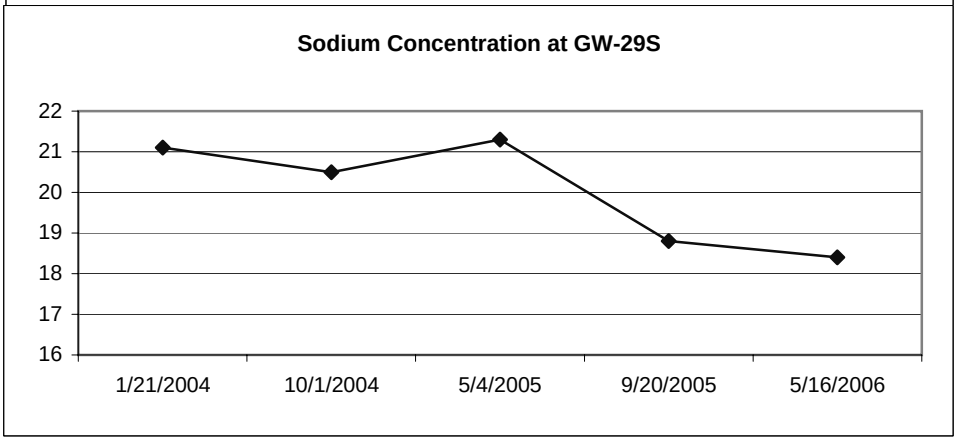
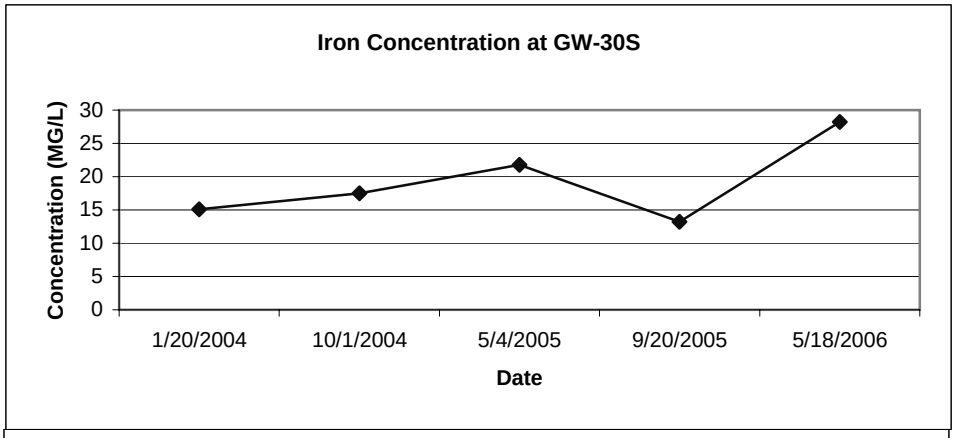
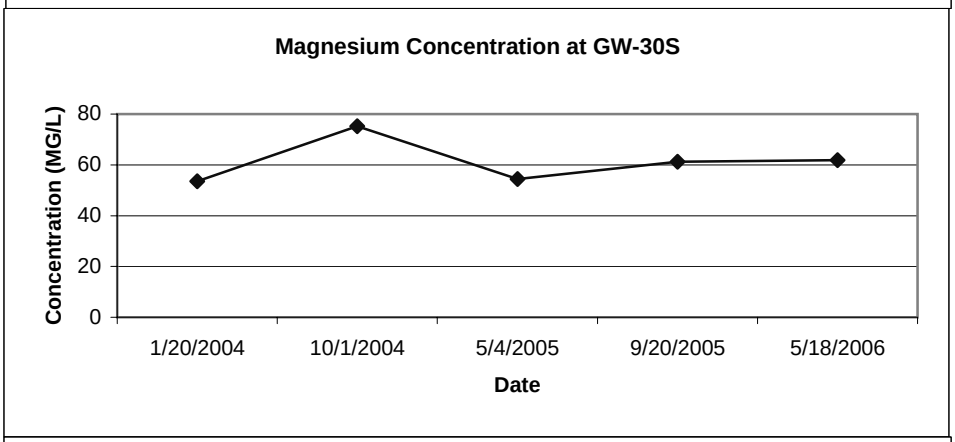
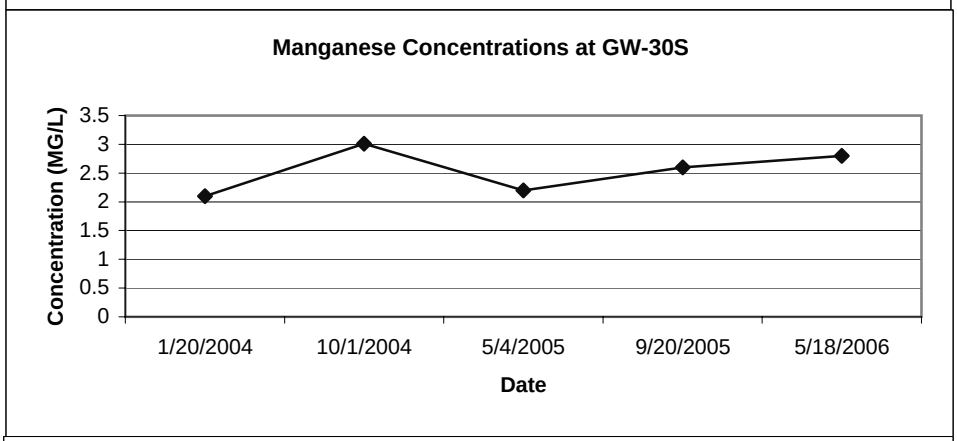


FIGURE 14
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-30S







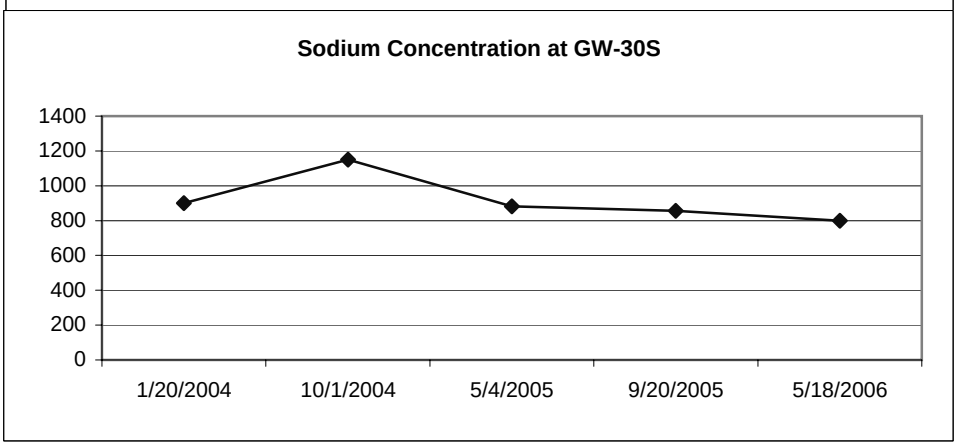
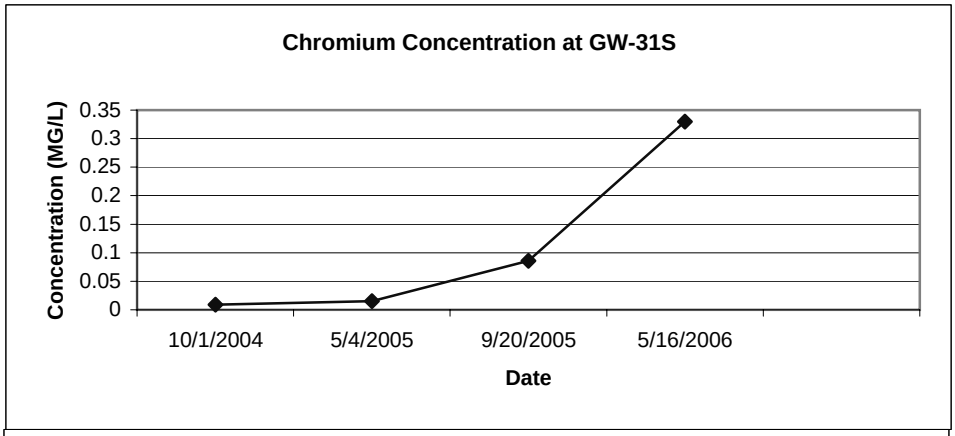
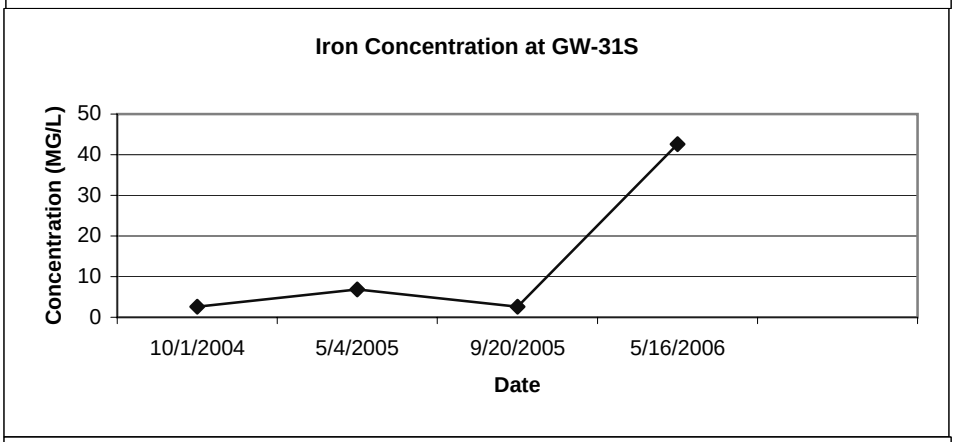
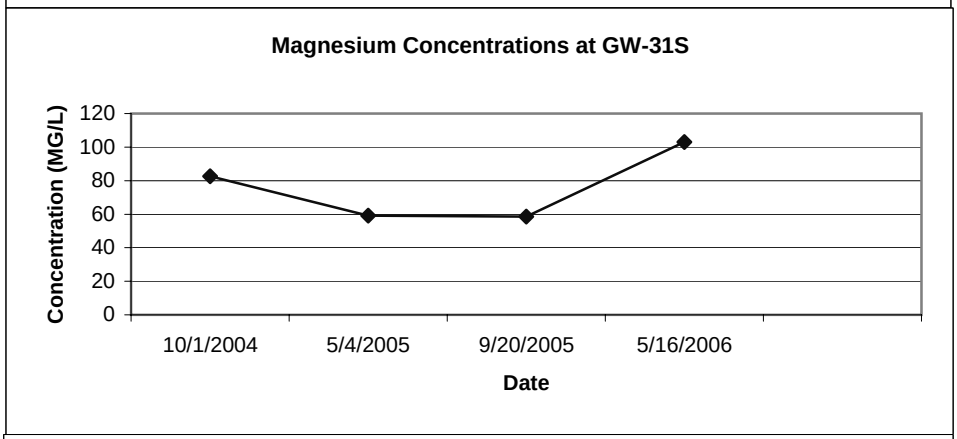


FIGURE 15
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-31S







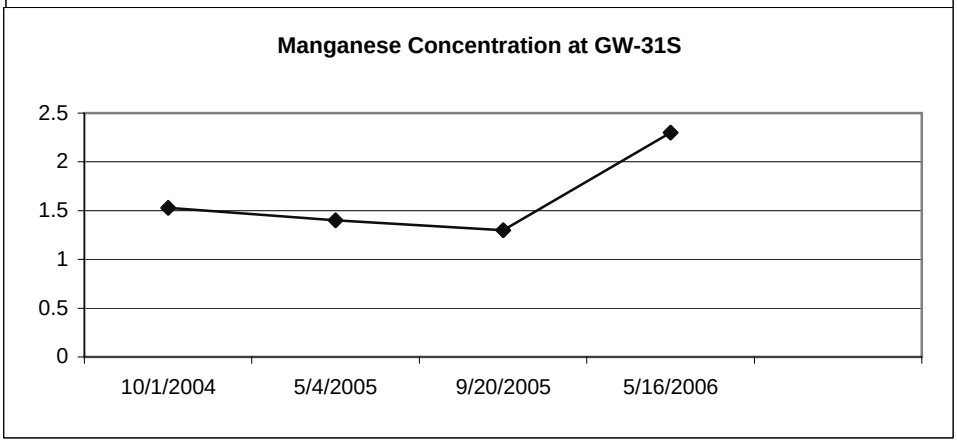
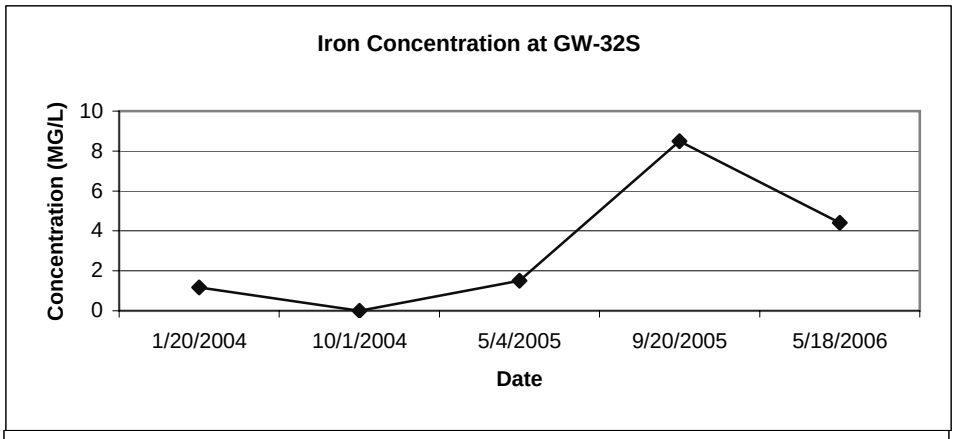
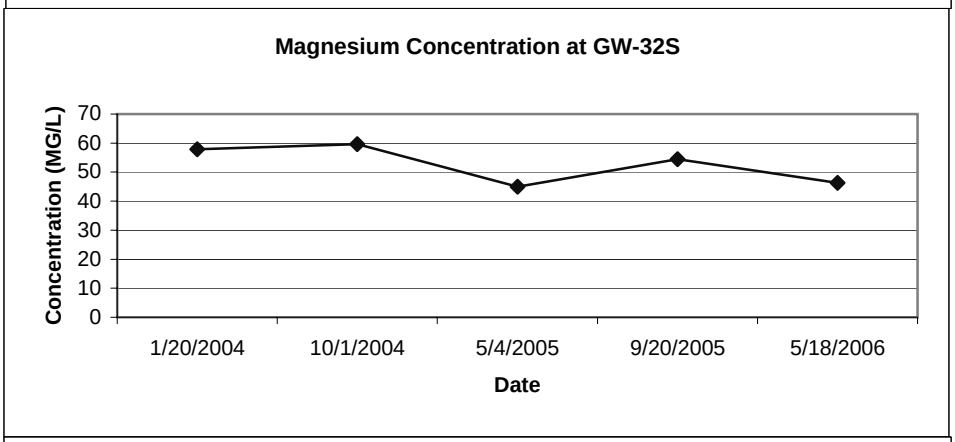


FIGURE 16
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-32S





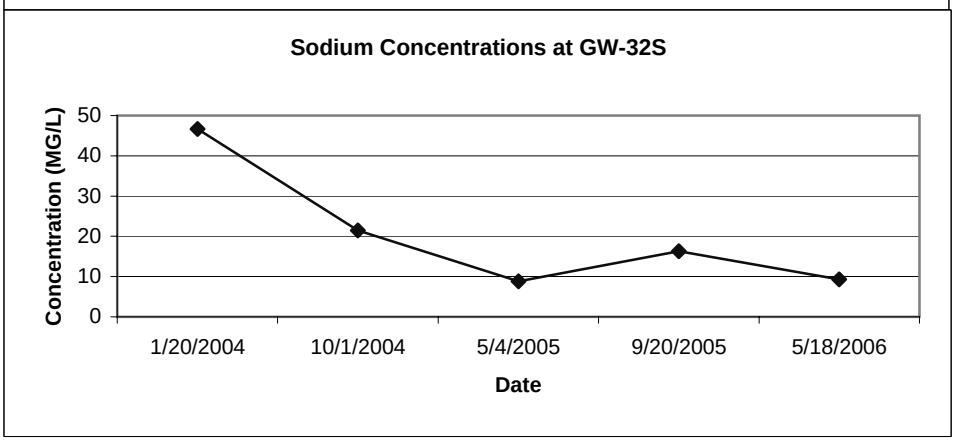


FIGURE 17
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-33S

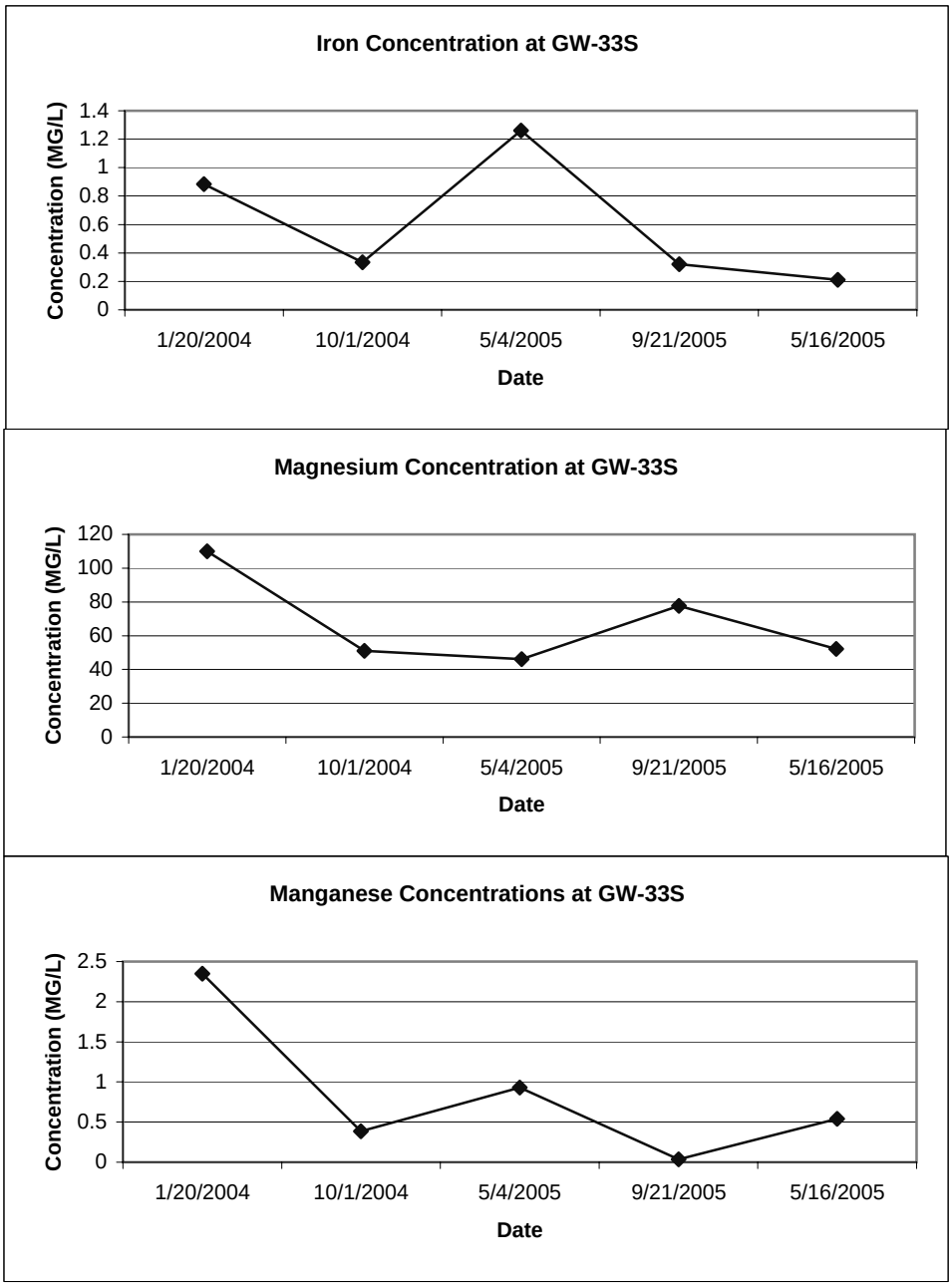
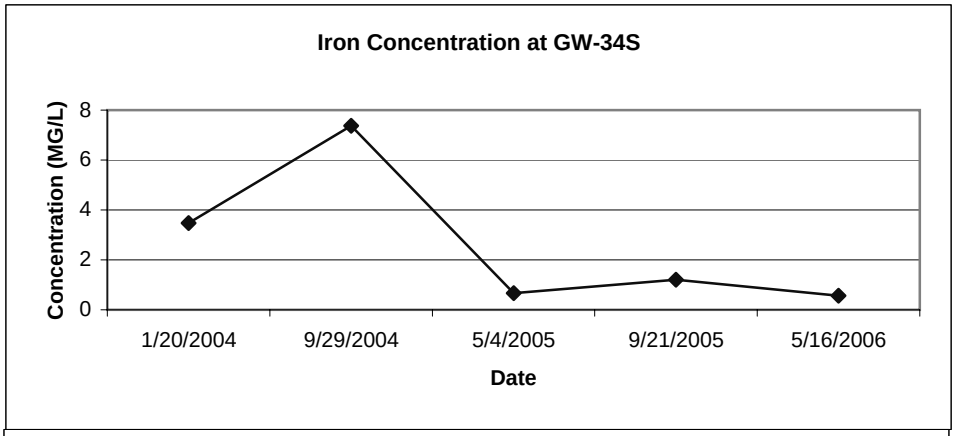
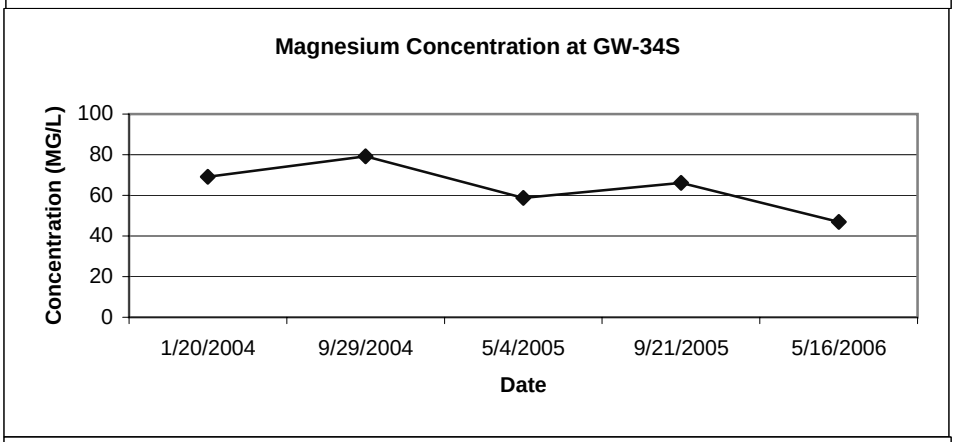
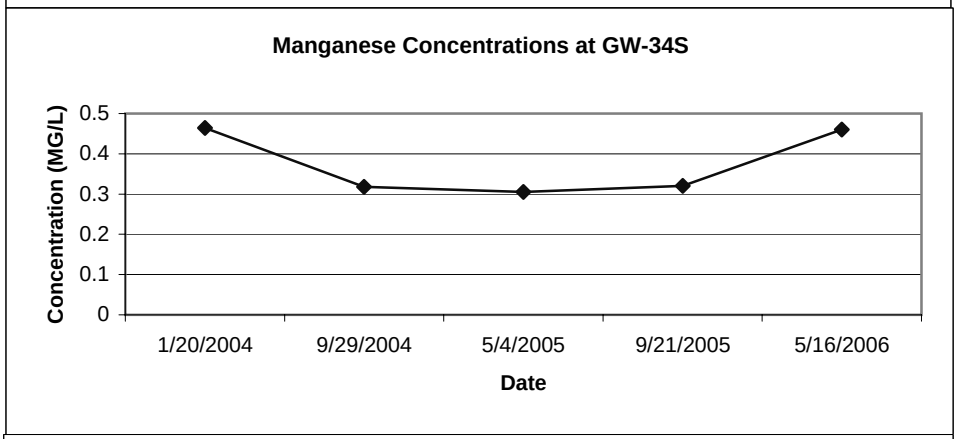


FIGURE 18
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-34S







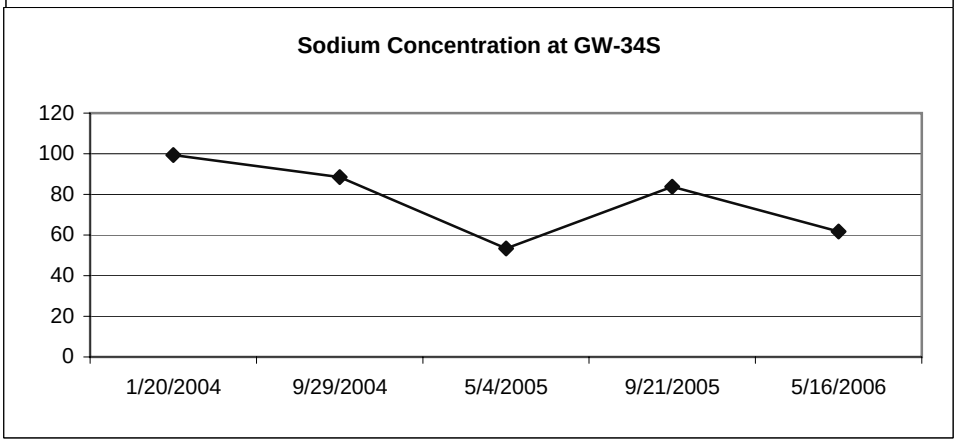
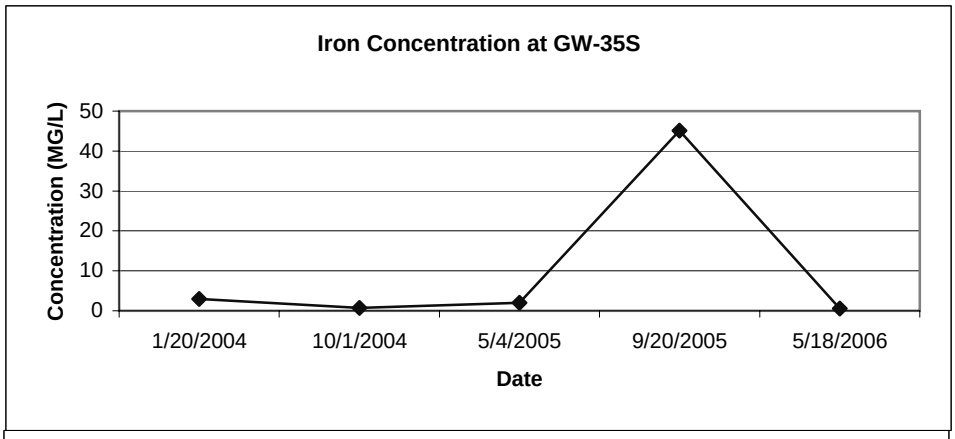
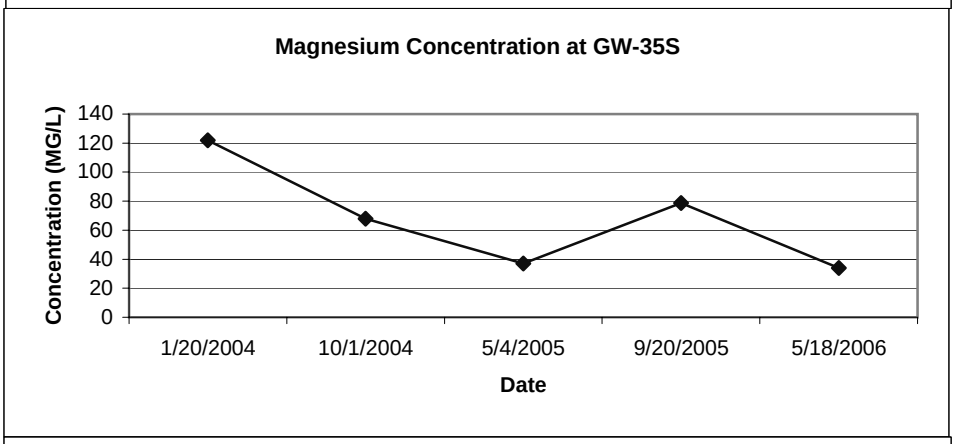
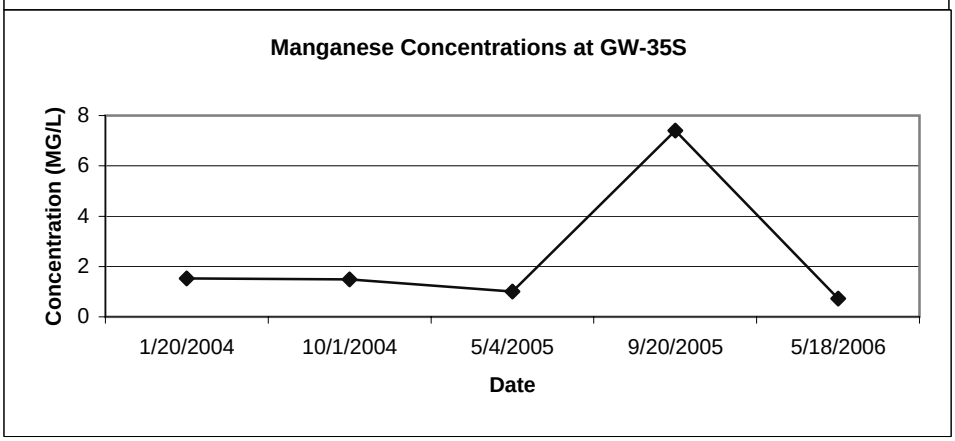


FIGURE 19
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-35S







APPENDIX F

BSA PERMIT NO. 05-12-CH016

AUTHORIZATION TO DISCHARGE UNDER THE BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT NO. 05-12-CH016
USEPA Category 40 CFR Part 403

In accordance with the provisions of the Federal Water Pollution Control Act, as amended, and the Sewer Regulations of the Buffalo Sewer Authority, authorization is hereby granted to:

THE TOWN OF CHEEKTOWAGA

to discharge wastewater from a facility located at:

PFOHL BROTHERS LANDFILL REMEDIATION SITE
1000 AERO DRIVE
CHEEKTOWAGA, NEW YORK 14225

The wastewater permitted herein shall be discharged to the Town of Cheektowaga sewer system, which is connected to the Buffalo Municipal Sewer System and Treatment facilities, and which wastewater will be treated at the Buffalo Sewer Authority's Treatment Plant.

Issuance of this permit is based upon a permit application filed on **November 3, 2005** analytical data. This permit is granted in accordance with discharge limitations, monitoring requirements and other conditions set forth in Parts I and II hereof.

Effective this 1st day of April, 2006

To Expire the 31st day of March, 2009

General Manager

Signed this 30th **day of** March **, 2006**

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS

During the period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall (see attached map) shall be limited and monitored **quarterly** by the permittee as specified below.

Sample Point	Parameter	Discharge Limitations[1] Daily Max	Sampling Requirements Period	Type
001	pH	5.0 – 12.0 S.U.	1 day	Composite[2]
	Total Cadmium	1.17 lbs.	1 day	Composite[2]
	Total Chromium	1.17 lbs.	1 day	Composite[2]
	Total Copper	3.74 lbs.	1 day	Composite[2]
	Total Lead	1.17 lbs.	1 day	Composite[2]
	Total Nickel	3.27 lbs.	1 day	Composite[2]
	Total Zinc	5.84 lbs.	1 day	Composite[2]
	Total Barium	2.34 lbs.	1 day	Composite[2]
	Total Suspended Solids[5]	250 mg/l	1 day	Composite[2]
	Total Flow	140,100 gallons[6]	1 day	Discharge meter reading

Footnotes are explained on page 5.

PART I: SPECIFIC CONDITIONS

A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS

During the period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall (see attached map) shall be limited and monitored **once** by the permittee as specified below.

Sample Point	Parameter	Discharge Limitations[1] Daily Max	Sampling Requirements Period	Type
001	Total Mercury	0.001 lbs.	1 day	Composite[2]
	USEPA Test Method 608[4]	To be monitored	1 day	Grab[3]
	USEPA Test Method 624[4]	To be monitored	1 day	Grab[3]
	USEPA Test Method 625[4]	To be monitored	1 day	Grab[3]

Footnotes are explained on page 5.

PART I: SPECIFIC CONDITIONS

B. DISCHARGE MONITORING 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 **quarterly** by the permittee on the days specified below:

Sample Point	**Parameter**	**Reporting Requirements**	
		Initial Report	**Subsequent Reports**
001	All except USEPA Test Methods 608, 624, 625 & T Mercury	June 30, 2006	Every March 31st, June 30th, September 30th and December 31st
	USEPA Test Methods 608, 624 and 625 & T Mercury	March 31, 2008	

PART I: SPECIFIC CONDITIONS

C. SPECIAL REQUIREMENTS

1. Mass limits based on an average discharge of 140,100 gpd.

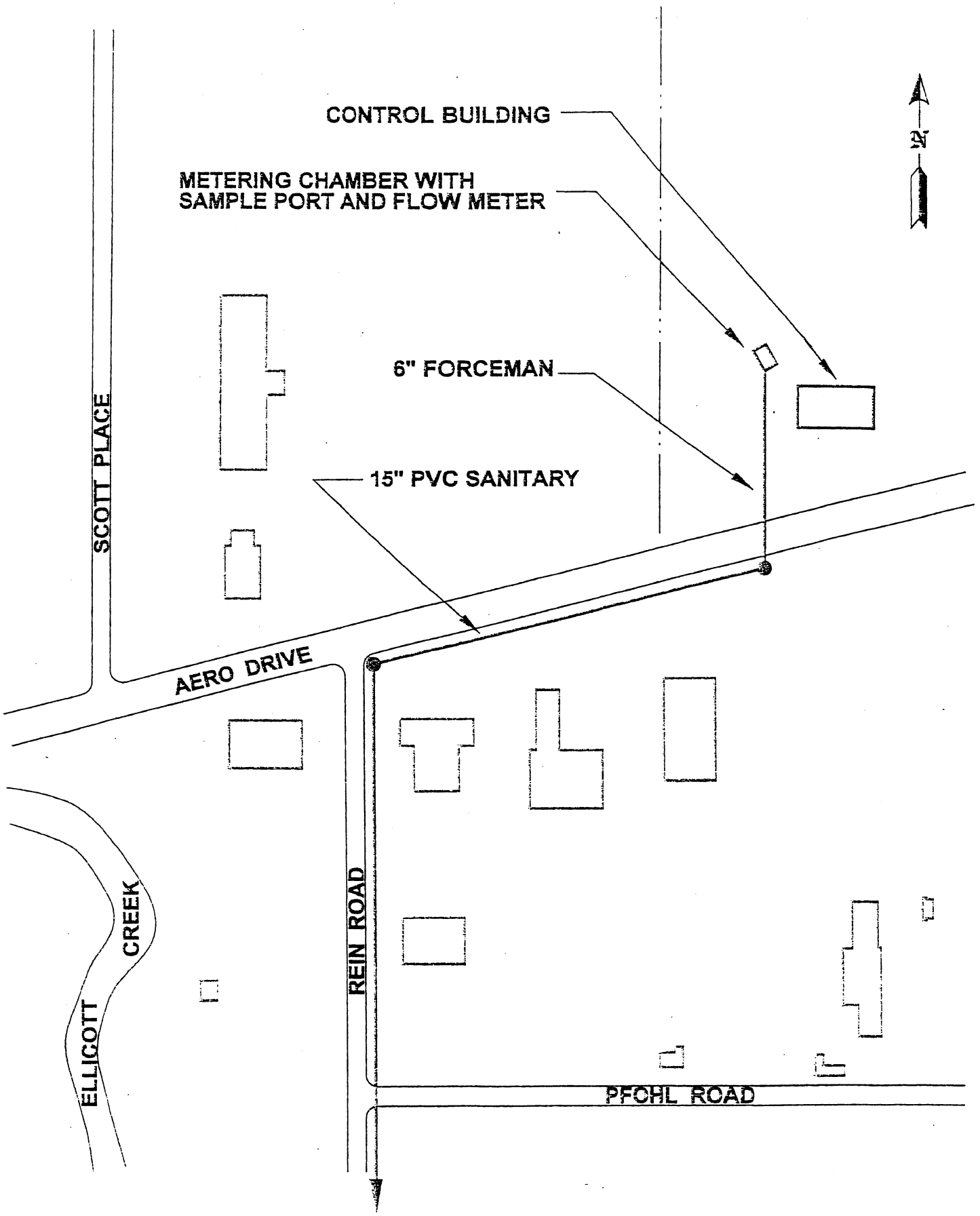
2. Composite samples may be time proportioned.

3. Four grab samples must be collected at equally spaced intervals throughout the sample day. The four (4) grab samples must be composited by a NYSDOH certified laboratory prior to analysis.

4. The permittee must report any compound whose concentration is equal to or greater than 0.01 mg/L. The permittee is not authorized to discharge any of the parameters evaluated by these test procedures which may cause or contribute to a violation of water quality standards or harm the sewerage system. Any parameter detected may, at the discretion of the BSA, be specifically limited and incorporated in this permit.

5. Surchargeable over 250 mg/L.

6. Flow is an action level only. If the permittee consistently exceeds this level, the BSA must be notified so that this permit can be modified.



GROWING IN A NEW DIRECTION

TOWN OF CHEEKTOWAGA

TOWN OF CHEEKTOWAGA
CHEEKTOWAGA ENGINEERING DEPT.
ALEXANDER COMMUNITY CENTER
275 ALEXANDER AVE.
CHEEKTOWAGA, NEW YORK 14221
PHONE: (716) 897-7088

PFOHL BROTHERS
LANDFILL SITE

DRAWN BY: MARK J. CHRISTEL
DATE: 10 / 28 / 2002
REVISED:

EXHIBIT

1

BUFFALO POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PART II: GENERAL CONDITIONS

A. MONITORING AND REPORTING

1. Local Limits

Except as otherwise specified in this permit, the permit holder shall comply with all specific prohibitions, limits on pollutants or pollutant parameters set forth in the Buffalo Sewer Authority Sewer Use Regulations, as amended from time to time, and such prohibitions, limits and parameters shall be deemed pretreatment standards for purposes for the Clean Water Act.

2. Definitions

Definitions of terms contained in this permit are as defined in the Buffalo Sewer Authority Sewer Use Regulations.

3. Discharge Sampling Analysis

All Wastewater discharge samples and analyses and flow measurements shall be representative of the volume and character of the monitored discharge. Methods employed for flow measurements and sample collections and analyses shall conform to the Buffalo Sewer Authority "Sampling Measurement and Analytical Guidelines Sheet".

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of the permit, the permittee shall record the information as required in the "Sampling Measurement and Analytical Guidelines Sheet".

5. Additional Monitoring by Permittee

If the permittee monitors any pollutants at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified in 40 CFR Part 136 the results of such monitoring shall be included in the calculation and reporting of values required under Part I, B. Such increased frequency shall also be indicated.

6. Reporting

All reports prepared in accordance with this Permit shall be submitted to:

Industrial Waste Section
Buffalo Sewer Authority Treatment Plant
90 West Ferry Street
Buffalo, New York 14213

All self-monitoring reports shall be prepared in accordance with the BSA "Sampling Measurement and Analytical Guidelines Sheet". These reporting requirements shall not relieve the permittee of any other reports, which may be required by the N.Y.S.D.E.C. or the U.S.E.P.A.

B. PERMITTEE REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit and with the information contained in the BPDES permit application on which basis this permit is granted. In the event of any facility expansions, production increases, process modifications or the installation, modification or repair of any pretreatment equipment which may result in new, different or increased discharges of pollutants, a new BPDES Permit application must be submitted prior to any change. Following receipt of an amended application, the BSA may modify this permit to specify and limit any pollutants not previously limited. In the event that the proposed change will be covered under an applicable Categorical Standard, a Baseline Monitoring Report must be submitted at least ninety (90) days prior to any discharge.

2. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained at this facility for a minimum of three (3) years, or longer if requested by the General Manager.

3. **Notification of Slug, Accidental Discharge or Spill**

In the event that a slug, accidental discharge or any spill occurs at the facility for which this permit is issued, it is the responsibility of the permittee to immediately notify the B.S.A. Treatment Plant at 883-1820 of the quantity and character of such discharge. If requested by the B.S.A., within five (5) days following all such discharges, the permittee shall submit a report describing the character and duration of the discharge, the cause of the discharge, and measures taken or that will be taken to prevent a recurrence of such discharge.

4. **Noncompliance Notification**

If, for any reason, the permittee does not comply with or will be unable to comply with any discharge limitation specified in this permit, the permittee or their assigns must verbally notify the Industrial Waste Section at 883-1820 within twenty-four (24) hours of becoming aware of the violation. The permittee shall provide the Industrial Waste Section with the following information, in writing, within five (5) days of becoming aware of such condition:

a. a description of the discharge and cause of noncompliance and;

b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

5. **Adverse Impact**

The permittee shall take all reasonable steps to minimize any adverse impact to the Buffalo Sewerage System resulting from noncompliance with any discharge limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

6. **Waste Residuals**

Solids, sludges, filter backwash or other pollutants removed in the course of treatment or control of wastewaters and/or the treatment of intake waters, shall be disposed of in a manner such as to prevent any pollutant from such materials from entering the Buffalo Sewer System.

7. Power Failures

In order to maintain compliance with the discharge limitations and prohibitions of this permit, the permittee shall provide an alternative power source sufficient to operate the wastewater control facilities; or, if such alternative power source is not provided the permittee shall halt, reduce or otherwise control production and/or controlled discharges upon the loss of power to the wastewater control facilities.

8. Treatment Upsets

a. Any industrial user which experiences an upset in operations that places it in a temporary state of noncompliance, which is not the result of operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation, shall inform the Industrial Waste Section immediately upon becoming aware of the upset. Where such information is given verbally, a written report shall be filed by the user within five (5) days. The report shall contain:

(i) A description of the upset, its cause(s) and impact on the discharger's compliance status;

(ii) The duration of noncompliance, including exact dates and times of noncompliance, and if the non-compliance is continuing, the time by which compliance is reasonably expected to be restored;

(iii) All steps taken or planned to reduce, eliminate, and prevent recurrence of such an upset.

b. An industrial user which complies with the notification provisions of this Section in a timely manner shall have an affirmative defense to any enforcement action brought by the Industrial Waste Section for any noncompliance of the limits in this permit, which arises out of violations attributable to and alleged to have occurred during the period of the documented and verified upset.

9. Treatment Bypasses

a. A bypass of the treatment system is prohibited unless the following conditions are met:

(i) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; or

(ii) There was no feasible alternative to the bypass, including the use of auxiliary treatment or retention of the wastewater; and

(iii) The industrial user properly notified the Industrial Waste Section as described in paragraph b. below.

b. Industrial users must provide immediate notice to the Industrial Waste Section upon discovery of an unanticipated bypass. If necessary, the Industrial Waste Section may require the industrial user to submit a written report explaining the cause(s), nature, and duration of the bypass, and the steps being taken to prevent it's recurrence.

c. An industrial user may allow a bypass to occur which does not cause pretreatment standards or requirements to be violated, but only if it is for essential maintenance to ensure efficient operation of the treatment system. Industrial users anticipating a bypass must submit notice to the Industrial Waste Section at least ten (10) days in advance. The Industrial Waste Section may only approve the anticipated bypass if the circumstances satisfy those set forth in paragraph a. above.

C. PERMITTEE RESPONSIBILITIES

1. Permit Availability

The originally signed permit must be available upon request at all times for review at the address stated on the first page of this permit.

2. Inspections

The permittee shall allow the General Manager of the Buffalo Sewer Authority and/or his authorized representatives, upon the presentation of credentials and during normal working hours or at any other reasonable times, to have access to and copy any records required in this permit; and to sample any discharge of pollutants.

3. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities for which this permit has been issued the permit shall become null and void. The succeeding owner shall submit a completed Buffalo Sewer Authority permit application prior to discharge to the sewer system.

D. PERMITTEE LIABILITIES

1. Permit Modification

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to the following:

a. Violation of any terms or conditions of this permit,

b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts,

c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

2. Imminent Danger

In the event there exists an imminent danger to health or property, the permitter reserves the right to take immediate action to halt the permitted discharge to the sewerage works.

3. **Civil and Criminal Liability**

Nothing in this permit shall relieve the permittee from any requirements, liabilities, or penalties under provisions of the "Sewer Regulations of the Buffalo Sewer Authority" or any Federal, State and/or local laws or regulations.

4. **Penalties for Violations of Permit Conditions**

The "Sewer Regulations of the Buffalo Sewer Authority" and the "Sewer Regulations for Erie County Sewer Districts" provides that any person who violates a B.P.D.E.S. permit condition is liable to the Authority for a civil penalty of up to $10,000.00 per day for each violation. Any person who willfully or negligently violates permit conditions will be referred to the New York State Attorney General.

E. NATIONAL PRETREATMENT STANDARDS

If a pretreatment standard or prohibition (including any Schedule of Compliance specified in such pretreatment standard or prohibition) is established under Section 307 (b) of the Act for a pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with such pretreatment standard or prohibition.

F. PLANT CLOSURE

In the event of plant closure, the permittee is required to notify the Industrial Waste Section in writing as soon as an anticipated closure date is determined, but in no case later than five days of the actual closure.

G. CONFIDENTIALITY

Except for data determined to be confidential under Section 308 of the Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Buffalo Sewer Authority. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the Act.

H. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

APPENDIX G

DISCHARGE REPORT SUMMARY TABLES

SAMPLING FIELD SHEET

URS

Client Name: Pfohl Brothers Landfill

Address: Aero Drive, Cheektowaga, NY

Contact: Bill Pugh, P.E. Phone: 716-897-7288

Installation:

Sample Point: SP-001

Sample Location: Meter Chamber - ball valve on 6" HDPE forcemain

Date: 3/29/06 Crew: R. Murphy, D. Tobin, J. Stachowski

Weather: 36° F, clear, calm

Sampling Device: NA

Time of Installation: 08:30 Type of Sample: Grab directly into laboratory sample containers

Sample Interval: NA Sample Volume: NA

Comments and Observations: Wet wells WW-5 and WW-6 were pumping at time of sample set-up.
PLC display volumes: WW-01 (613,560 gals), WW-02 (64,145 gals), WW-03 (1,342,612 gals),
WW-04 (3,674,559 gals), WW-05 (2,116,410 gals), WW-06 (3,417,784 gals) & MH-25 (11,213,806 gals).

Date: 3/30/06 Crew: R. Murphy, D. Tobin, J. Stachowski

Weather: 38° F, partly cloudy, calm

Time of Collection: 08:30

Field Measurements:

08:45/RM
(time/initial)

pH Calibration: Buffer 7- X Buffer 4- Buffer 10-

pH Measurement: 7.2

Temperature: 10°C

Identification: EFFLUENT 033006

Physical Observations: None

Laboratory: Severn Trent, Buffalo, NY

Comments: Wet Well WW-3 was pumping at time of sample set-up.
PLC display volumes: WW-01 (613,560 gals), WW-02 (64,145 gals), WW-03 (1,365,504 gals),
WW-04 (3,674,559 gals), WW-05 (2,137,596 gals), WW-06 (3,431,524 gals) & MH-25 (11,273,776 gals).

Reviewed By: Date: 4/19/06
(Supervisor)

TABLE 1

PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS MARCH 2006

Sample ID	**EFFLUENT 033006**			
Matrix	**Effluent Water**			
Date Sampled	**3/30/2006**			
Parameter	**Result**	**Mass Loading**	**Discharge Limitation**	**Violations**
	(mg/L)	**(lbs/day)**	**(lbs/day)**	**(Y/N)**
Total Barium	0.31	0.16	2.34	No
Total Cadmuim	ND(1)	NA(2)	1.17	No
Total Chromium	ND	NA	1.17	No
Total Copper	ND	NA	3.74	No
Total Lead	ND	NA	1.17	No
Total Nickel	ND	NA	3.27	No
Total Zinc	0.012	0.01	5.84	No
Total Suspended Solids	5.0	NA	250 (3)	No
pH (4)	7.2	NA	5.0 - 12.0	No
Total Flow (5)		59,970	140,000	No

Notes:

(1) ND = Not Detected
(2) NA = Not Applicable
(3) Discharge Limitation in units of mg/L
(4) pH measurement and Discharge Limitation in Standard Units
(5) Total Flow reported in gallons

Calculation: $\left(\frac{x\ mg}{L}\right)\left(\frac{y\ gal}{day}\right)\left(\frac{1\ lb}{453{,}600\ mg}\right)\left(\frac{3.785\ L}{gal}\right) = \frac{x \times y}{119{,}841}\ \frac{lb}{day}$

SAMPLING FIELD SHEET

URS

Client Name: Pfohl Brothers Landfill

Address: Aero Drive, Cheektowaga, NY

Contact: Bill Pugh, P.E. Phone: 716-897-7288

Installation:

Sample Point: SP-001

Sample Location: Meter Chamber - ball valve on 6" HDPE forcemain

Date: 6/28/06 Crew: A. Brayman, D. Tobin, D. McDaid, T. Urban

Weather: 85° F, clear

Sampling Device: NA

Time of Installation: 10:15 Type of Sample: Grab directly into laboratory sample containers

Sample Interval: NA Sample Volume: NA

Comments and Observations: Wet wells WW-3, WW-4 and WW-6 were pumping at time of sample set-up. PLC display volumes: WW-01 (795,060 gals), WW-02 (63,667 gals), WW-03 (1,730,296 gals), WW-04 (3,753,279 gals), WW-05 (3,548,025 gals), WW-06 (4,316,280 gals) & MH-25 (14,289,073 gals).

Date: 6/29/06 Crew: A. Brayman, D. Tobin, T. Urban

Weather: 75° F, partly cloudy

Time of Collection: 15:25

Field Measurements:

16:40/AB (time/initial)

pH Calibration: Buffer 7- Buffer 4- Buffer 10-

pH Measurement: 6.94

Temperature: 17.3°C

Identification: Effluent 1-4 composite (EFF-1, EFF-2, EFF-3, EFF-4), PB-062906, 20060629-TB

Physical Observations: None

Laboratory: Severn Trent, Buffalo, NY

Comments: Wet Well WW-6 was pumping at time of sample set-up. PLC display volumes: WW-01 (819,460 gals), WW-02 (63,667 gals), WW-03 (1,744,062 gals), WW-04 (3,789,742 gals), WW-05 (3,584,025 gals), WW-06 (4,334,791 gals) & MH-25 (14,380,943 gals).

Reviewed By: (Supervisor) Date: 8/19/06

TABLE 1

PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS JUNE 2006

Sample ID	**PB-062906**			
Matrix	**Effluent Water**			
Date Sampled	**6/29/2006**			
Parameter	**Result**	**Mass Loading**	**Discharge Limitation**	**Violations**
	(mg/L)	**(lbs/day)**	**(lbs/day)**	**(Y/N)**
Total Barium	0.42	0.32	2.34	No
Total Cadmuim	ND[(1)]	NA[(2)]	1.17	No
Total Chromium	ND	NA	1.17	No
Total Copper	ND	NA	3.74	No
Total Lead	ND	NA	1.17	No
Total Mercury *	ND	NA	0.001	No
Total Nickel	ND	NA	3.27	No
Total Zinc	0.016	0.01	5.84	No
Total Suspended Solids	ND	NA	250 [(3)]	No
pH [(4)]	6.94	NA	5.0 - 12.0	No
Total Flow [(5)]		91,870	140,000	No

Notes:

(1) ND = Not Detected
(2) NA = Not Applicable
(3) Discharge Limitation in units of mg/L
(4) pH measurement and Discharge Limitation in Standard Units
(5) Total Flow reported in gallons
* Mercury analysis performed once per permit duration

Calculation: $$\left(\frac{x\ mg}{L}\right)\left(\frac{y\ gal}{day}\right)\left(\frac{1\ lb}{453{,}600\ mg}\right)\left(\frac{3.785\ L}{gal}\right) = \frac{x \times y}{119{,}841}\ \frac{lb}{day}$$

APPENDIX H

SURFACE WATER AND SEDIMENT SAMPLE COLLECTION LOGS

SURFACE WATER AND SEDIMENT SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers Landfill* Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Sample Collection: *15-May-06*

Sample I.D. Number	Sample Location	Est. Stream Width	Est. Stream Depth	Est. Stream Velocity	Field pH	Field Temp. (^{o}F)	Field Turb. (NTU)	Field Cond. (mS)	Time	Sample Analysis	Sample Description
SW-1	SW-1	15'	0.5'	0.1 f/sec	---	---	---	---	7:30	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, slight sheen
SW-1	SED-1	---	---	---	---	---	---	---	7:55	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-2	SW-2	10'	1.0'	none	---	---	---	---	8:15	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, slight sheen
SW-2	SED-2	---	---	---	---	---	---	---	8:25	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-3	SW-3	20'	0.5'	none	---	---	---	---	9:00	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, no sheen
SW-3	SED-3	---	---	---	---	---	---	---	9:10	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-6	SW-6	4'	0.5'	none	---	---	---	---	10:05	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, no sheen
SW-6	SED-6	---	---	---	---	---	---	---	10:15	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Brown, silty clay, organics

Additional Comments: Field parameters were not measured.

SURFACE WATER AND SEDIMENT SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers Landfill*

Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek*

Supervisor: *J. Stachowski*

Date of Sample Collection: *15-May-06*

Sample I.D. Number	Sample Location	Est. Stream Width	Est. Stream Depth	Est. Stream Velocity	Field pH	Field Temp. (^{o}F)	Field Turb. (NTU)	Field Cond. (mS)	Time	Sample Analysis	Sample Description
SW-7	SW-7	8'	0.5'	0.1 f/sec	---	---	---	---	10:45	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, slight sheen
SED-7	SED-7	---	---	---	---	---	---	---	10:55	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-7 MS	SW-7	8'	0.5'	0.1 f/sec	---	---	---	---	10:45	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, slight sheen
SED-7 MS	SED-7	---	---	---	---	---	---	---	10:55	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-7 MSD	SW-7	8'	0.5'	0.1 f/sec	---	---	---	---	10:45	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, no sheen
SED-7 MSD	SED-7	---	---	---	---	---	---	---	10:55	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-8	SW-8	15'	0.5'	0.1 f/sec	---	---	---	---	12:30	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, slight sheen
SED-8	SED-8	---	---	---	---	---	---	---	12:40	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Black, silt some organics, iron floc

Additional Comments: Field parameters were not measured.

SURFACE WATER AND SEDIMENT SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: *Pfohl Brothers Landfill*

Project Number: *11172700.00004*

Sampling Crew Members: *A. Brayman, R. Piurek*

Supervisor: *J. Stachowski*

Date of Sample Collection: *15-May-06*

Sample I.D. Number	Sample Location	Est. Stream Width	Est. Stream Depth	Est. Stream Velocity	Field pH	Field Temp. (^{o}F)	Field Turb. (NTU)	Field Cond. (mS)	Time	Sample Analysis	Sample Description
SW-9 (Dup)	SW-8	15'	0.5'	0.1 f/sec	---	---	---	---	12:30	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, slight sheen
SED-9 (Dup)	SED-8	---	---	---	---	---	---	---	12:40	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Black, silt some organics, iron floc
SW-4	SW-4	20'	0.5'	none	---	---	---	---	13:15	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Surface water:Clear, no odor, no sheen
SED-4	SED-4	---	---	---	---	---	---	---	13:25	VOC/SVOC/PCB/ Metals/Cyanide/Dioxin/ Gamma spec	Sediment: Brown to gray, sandy silt some organics

Additional Comments: Field parameters were not measured.

APPENDIX I

MONITORING WELL INSPECTION LOGS

WELL INSPECTION SUMMARY

Project Name: *Pfohl Brothers Landfill* Project Number: *11172700.00004*

Inspection Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Inspection: *May 15,2006*

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
GW-1S	OK	OK	OK	OK	2.45	11.89	
GW-1D	OK	OK	OK	OK	2.99	39.65	
GW-3S	OK	OK	OK	OK	4.28	13.54	
GW-3D	OK	OK	OK	OK	1.89	35.99	
GW-4S	OK	OK	OK	OK	5.69	16.51	
GW-4D	OK	OK	OK	OK	13.08	45.36	
GW-07S	OK	OK	OK	OK	6.16	35.3	
GW-7D	OK	OK	OK	Damaged	28.35	60.95	

Additional Comments: Replaced locks on GW-1s, GW-1D, GW-3D, GW-07S AND GW-07D.
Installed new protective casing and well pad on GW-1S and GW-1D, replaced well pads on GW-3S and GW-3D.
Replaced missing J-plugs on GW-1S, GW-1D, GW-3S and GW-3D. New well lid on GW-7D

WELL INSPECTION SUMMARY

Project Name: *Pfohl Brothers Landfill* Project Number: *11172700.00004*

Inspection Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date of Inspection: *May 15,2006*

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
GW-8SR	OK	OK	OK	OK	5.41	13.04	
GW-8D	OK	OK	OK	OK	5.79	36.63	
GW-26D	OK	OK	OK	OK	6.54	40.75	
GW-28S	OK	OK	OK	OK	7.60	15.58	
GW-29S	OK	OK	OK	OK	7.99	20.21	
GW-30S	OK	OK	OK	OK	7.59	18.00	
GW-31S	OK	OK	OK	OK	4.79	9.78	
GW-32S	OK	OK	OK	OK	4.73	9.92	

Additional Comments: Replaced missing J-plugs on GW-8SR and GW-8D.

WELL INSPECTION SUMMARY

Project Name: *Pfohl Brothers Landfill* Project Number: *11172700.00004*

Inspection Crew Members: *A. Brayman, R. Piurek* Supervisor: *J. Stachowski*

Date(s) of Inspection: *May 15,2006*

Well I.D. Number	*Lock*	*Surface Seal*	*Protective Casing*	*Riser*	*Water Level (ft. BTOC)*	*Well Depth (ft. BTOC)*	*Other Comments*
GW-33S	OK	OK	OK	OK	6.09	8.40	
GW-34S	OK	OK	OK	OK	3.19	10.21	
GW-35S	OK	OK	OK	OK	4.52	7.45	

Additional Comments: