

**SEMI ANNUAL REPORT
OPERATION AND MAINTENANCE
JANUARY 2007 TO JUNE 2007
PFOHL BROTHERS LANDFILL
CHEEKTOWAGA, NY**

Submitted to:

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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 of Cheektowaga 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 seventh 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 2007 through June 2007 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. Examples of the daily inspection sheet are 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 2007 through June 2007, 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, 2007 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. Such actions were only taken upon request of the Buffalo Sewer Authority during heavy storm events in order to reduce the hydraulic load on the BSA treatment system during such events.
- Plowed snow to access the Control Building when necessary.
- Cleaned/replaced check valves as necessary at all wet wells.
- February 2, 2007, replaced discharge hose on WW3 and WW4.

- March 3, 2007, installed new pump and discharge hose in WW1.
- March 7, 2007, replaced check valve in WW1.
- April through June 2007, CRA staff performed calibration and repair for flow meter and level instrumentation and replaced surge suppressor assemblies.
- June 2007, a new computer was purchased to replace the failing site computer. The failure of the site computer has impacted the data logging capabilities at the site for June 2007. The new process controller has been purchased and is being installed.
- Obtained six (6) pumps for replacement inventory, which are stored in the Control Building.
- June 1, 2007, contacted wildlife trapper to control ground-burrowing animal activity in center and southeast corner of Area C.
- June 28, 2007, replaced batteries in Control Building emergency lights.

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 2007. The lack of discharge is attributable to level sensor instrumentation failures, which required operating the pumps in manual mode, power outages, and well shutdowns during heavy precipitation events. As mentioned above, the site computer is failing and did not record all discharges during the month of June 2007.

3.0 MONITORING ACTIVITIES

The Town of Cheektowaga 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 the seventh 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 through 3 of this appendix list the measured elevations. Table 4 provides a comparison of the measured levels in the wells and corresponding manholes/wet wells.

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 seventh semi-annual round of groundwater sampling was conducted between May 23, 2006 and May 25, 2006. All wells listed in Table 3.2 of the O&M plan were purged and sampled using dedicated equipment. 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. Five wells were purged dry using low flow techniques before a sample could be collected including GW-4S, GW-7S, GW-7D, GW-31S, and GW-33S. Purge logs and sampling

summary sheets are provided in Appendix D. Measurements of pH, specific conductivity, temperature, dissolved oxygen, oxidation reduction potential, and turbidity taken during purging are provided in Appendix D. The samples were packed with ice in coolers and transported under chain-of-custody (CoC) 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 as revised by the reduced parameter list included in the October 2006 semi-annual report. The revised list was approved by NYSDEC on December 6, 2006. Table 3-1 of this report presents the groundwater sample results compared with NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations Class GA water quality standards.

The dioxin/furan analysis detection limits during the previous rounds of analytical sampling were as specified in the Quality Assurance Project Plan (QAPP) of the approved O&M Plan. However, these detection limits were higher than the ambient water quality criteria. For the May 2007 sampling, URS requested a higher cost analysis from the laboratory to attempt to achieve lower detection limits by having the laboratory extract additional volume for analysis. In general, the analytical detection limits for the May 2007 dioxin and furans analytical data was approximately 10 times lower than previous sampling events. As a result, the detection limits were generally at or below the corresponding dioxin and furan Class GA guidance criteria. During the May 2007 sampling event, there were no detections of Dioxins or Furans at the lower detection limits.

Only one VOC, vinyl chloride, was detected at 2.2 µg/l concentrations slightly above the Class GA water quality standards (2 µg/l) at one location (GW-08SR). Only one SVOC, bis(2-ethylhexyl)phthalate, was estimated at a concentration exceeding its respective Class GA water quality standard. It was estimated at 13 µg/L in GW-31S, which is slightly above its Class GA water quality standard of 5.0 µg/L.

Among the metals, iron, magnesium, manganese, and sodium routinely exceed Class GA standards in most site wells. The concentration of iron, magnesium, manganese, and sodium in most site wells was similar to the concentrations found during previous sampling events.

Sodium concentrations were higher in bedrock wells (GW-1D, GW-3D, GW-8D and GW-26D) and shallow wells adjacent to roads (GW-1S, GW-4S, and GW-30S). GW-4D and GW-26D showed a significant increase in sodium during this sampling event as compared to previous sampling event analytical results. 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. Additionally, the surface water location sodium concentrations are also elevated and the concentrations appear to correspond to the nearest groundwater monitoring well locations further indicating that the elevated sodium concentrations found in the wells are associated with local road de-icing activities. The sodium concentration in the surface water at location SW-08 is 815 mg/L and the sodium concentration in the nearest well (GW-30S) is 237 mg/L. The sodium concentration in SW-04 is 110 mg/L while the sodium concentrations in the nearest wells (GW-01D and GW-01S) are 109 mg/L and 325 mg/L, respectively. Sodium concentrations in surface water would be expected to be higher in mid-winter when road deicing operations are in progress.

Antimony, chromium, lead, and nickel exceeded their respective groundwater standards in upgradient well GW-07D. Antimony exceeded its standard of 0.003 mg/L in GW-07D where it was detected at a concentration of 0.020 mg/L. Nickel exceeded its standard of 0.1 mg/L also in GW-07D where it was detected at a concentration of 0.16 mg/L.

Appendix E, Figures E-1 through E-19 presents a trend analysis of groundwater parameters that exceed Class GA groundwater standards. A review of the trend analysis indicated that no significant changes or trends in concentrations of any of the parameters exceeding groundwater standards have occurred over the seven semi-annual sampling events except as described below. Figures E-6 and E-11 for GW-4S and GW-26, respectively, confirm significant increases in sodium have occurred at these wells. Figure E-7 provides a trend analysis for upgradient monitoring well GW-7D for chromium, iron, lead, and sodium. The metals

concentrations at this upgradient well have been slowly increasing over the past three or four monitoring events.

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: 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; and 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. Qualifications applied to the data include “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 dated August 2007 was submitted separately from this report.

3.3 Groundwater Discharge Monitoring

URS completed two quarterly sampling events (March 2007 and June 2007) 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 the sampling events in March 2007 and June 2007, 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 Monitoring Well Inspections

During the May 2007 groundwater sampling event, a well inspection was performed. All wells appeared to be in good condition with the exception of damage to the riser on MW-07D. The monitoring well inspection logs may be found in Appendix H.

3.5 Surface Water/ Sediment Sampling

A fourth round of the annual surface water and sediment sampling was conducted on May 21, 2007. Seven of eight-paired surface water and sediment locations listed in the O&M plan (Table 3.3) and shown on Figure 3-2 were sampled. Surface water and sediment location SW-05 was not sampled during this sampling event because the location was dry. 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.

3.5.1 Surface Water Results

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.

All surface water samples were analyzed for parameters listed in the O&M plan (Table 3.3) with the exception of PCBs, which were inadvertently left off the list of parameters on the CoC form. Table 3-2 presents a summary of detected parameters and provides comparison with the NYSDEC Ambient Water Quality Standards and Guidance Values and Groundwater Effluent

Limitations Class B water quality standards. Table 2 in Appendix E, summarizes the historical surface water data and compares it to the NYSDEC TOGs Class B.

No VOCs exceeded Class B criteria. The only SVOC that exceeds the Class B criteria is benzo(a)anthracene. The Class B criteria limit for benzo(a)anthracene is 0.03 µg/l and was exceeded in SW-01, SW-02, and SW-08 from 0.2 to 0.3 µg/l. Vanadium was also detected in upgradient location SW-08 at 0.015 mg/l, which exceeds the Class B criteria level of 0.014 mg/l. Historically, vanadium has been detected at low levels at several different monitoring points, although with little consistency at any monitoring point. Additionally, aluminum and iron exceed Class B standards, but are most likely naturally occurring and are unlikely to be caused by remedial activities.

3.5.2 Sediment Sample Results

The sediment samples were analyzed for the parameters listed in the O&M plan (Table 3.3) with the exception of PCBs, which were inadvertently left off the list of parameters on the CoC form. Additionally, Total Organic Carbon (TOC) was analyzed so that location-specific sediment criteria could be calculated (Due to the fact that sediment at SW-05 was not collected during the May 2007 sampling event, the average TOC value [excluding the field duplicate] was used to calculate the sample specific sediment guidance criteria for this location). Tables 3-3, 3-4, and 3-5 present the sediment results compared to the NYSDEC Technical Guidance for Screening Contaminated Sediments for wildlife bioaccumulation (Table 3-3), for benthic chronic protection (Table 3-4), and the lowest and severe effects levels for inorganics (Table 3-5). The precise values of the sediment guidance values (Table 3-3 and 3-4) are proportional to the TOC levels in each sample. In the May 2007 analytical data, no wildlife bioaccumulation guidance criteria were exceeded.

In Table 3-4, the sediment sample analytical results exceeded the benthic chronic protection criteria for benzo(a)anthracene (SW-02) with a result of 340 µg/kg. The sediment sample analytical results exceeded the benthic chronic protection criteria for naphthalene (in SW-04, SW-07, and SW-08) with results ranging from 1,500 to 3,500 µg/kg. This is the first time that

naphthalene has been detected in the sediment samples. All of the naphthalene detections in sediment samples occurred along local roadways.

Table 3-5 of this report presents sediment sample inorganic analytical results compared to the NYSDEC Technical Guidance for Screening Contaminated Sediments Lowest and Severe Effects Levels. In general, the inorganic analyte concentrations have been decreasing or remaining relatively constant over time. None of the inorganic analytes exceeded the severe effects levels for the May 2007 sample results. Cadmium, copper, lead, manganese, nickel, zinc exceeded the lowest effect level guidance in several samples. In general, the historical results indicate that no significant changes or upward trends have been observed. Additionally, locations SW-02 and SW-03 had no detections exceeding the lowest or severe effects levels during the most recent sampling event.

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; 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 dated August 2007 is submitted under separate cover.

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.

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 organic compounds and metals are present. Similar concentrations of most parameters were found during previous sampling events. The eighth round of groundwater sampling will be conducted in November 2007. 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 five wells (GW-4S, GW-7S, GW-7D, GW-31S, and GW-33S) can still be purged to dryness even using low flow sampling techniques.

Radionuclides and 2,3,7,8-TCDD/2,3,7,8-TCDF analyses are requested to be discontinued during future monitoring events. A review of the results supporting this recommendation is presented below.

Several radionuclides including Bismuth 214, Lead 214, and Uranium 214 were detected in the May 2007 groundwater samples in GW-01D, GW-03D, GW-03S, GW-04S, GW-29S, and GW-35S. A review of the historical radionuclide data shows that the radionuclide detections do not consistently show up in the same wells during each round of sampling. The radionuclide levels have remained low at less than 100 pCi/L, in fact, radionuclides have never been detected above the site-specific guidance criteria since the inception of the O&M monitoring program. The radionuclide detections are generally 10 to 100 times less than the associated site-specific criteria. Since radionuclides have never exceeded the site-specific criteria and any detection are

significantly lower than the associated criteria, we recommend that radionuclides be removed from the site-specific parameter list.

NYSDEC had requested that target detection limits for 2,3,7,8-TCDD and 2,3,7,8-TCDF analyses be lowered to levels below these compounds groundwater standards. The analytical detection limits for the May 2007 2,3,7,8-TCDD/2,3,7,8-TCDF analytical data was approximately 10 times lower than previous sampling events. As a result, the detection limits were generally at or below the corresponding Class GA guidance criteria. 2,3,7,8-TCDD and 2,3,7,8-TCDF were not detected in the May 2007 groundwater analytical results.

A summary of historical groundwater analytical results for 2,3,7,8-TCDD, 2,3,7,8-TCDF, and radionuclides is provided in Table 1, Appendix E. 2,3,7,8-TCDD and 2,3,7,8-TCDF were not detected in groundwater samples above criteria except in the May 2006 sampling where 2,3,7,8-TCDD was detected in two wells at less than 0.0037 ng/L over its standard of 0.0007 ng/L. Since there were no exceedances detected in six of the seven monitoring events, the May 2006 results are believed to be an isolated occurrence and we recommend that this analysis be removed from the site-specific parameter list.

Based on this review, Radionuclides and 2,3,7,8-TCDD and 2,3,7,8-TCDF are requested to be removed from the groundwater parameter list. A proposed revised groundwater parameter list table is provided in Table 3-6.

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

Surface Water and Sediment Sampling: Surface water and sediment sampling is performed during the spring semi-annual event, not the fall event. In spring 2007, the fourth scheduled surface water and sediment sampling event was performed. The approved O&M manual allows for discontinuing surface water and sediment sampling after two events if no changes in surface water and sediment contamination are observed compared to pre-construction conditions. After the third surface water and sediment sampling event, the Town of Cheektowaga requested to discontinue surface water and sediment sampling. However, NYSDEC requested

continued sampling because conservative user-defined TOC values were used previously to calculate conservatively low sediment specific guidance criteria because TOC was not historically collected as part of the sample analysis. Accordingly, in May 2007, TOC was included in the sediment sample analysis. The TOC value was then used to calculate the sample specific sediment guidance values for each sample in the historical sediment data. Table 3-7 presents a summary of the detection limits for all sediment parameters that have criteria set, and the criteria themselves. This table shows that using site-specific TOC values, some of the derived criteria were still above the detection limit for some of the parameters. However, with the exception of 1,2,4-trichlorobenzene, the dichlorobenzenes, benzo(a)anthracene, fluorene, naphthalene, hexachlorobutadiene, and hexachlorocyclopentadiene, the lowest in the range of the detection limits was lower than any of the location-specific criteria. And among seven parameters where this isn't the case, the low range of the detection limits are on the same order of magnitude as the lowest criteria (except for the dichlorobenzenes). Furthermore, the fact that the detection limits for benzo(a)anthracene and naphthalene were below the criteria is immaterial as these compounds were detected above their criteria in some sediment samples.

Based on the comparison of historical data to criteria correlated to site-specific TOC values, the surface water and sediment analyses are requested to be eliminated from future annual sampling events, as outlined below.

Table 2 in Appendix E summarizes the historical detections of surface water parameters listed in Table 3.3 of the approved O&M manual compared against the NYSDEC TOGs Class B water quality criteria. The only organic compound detected exceeding the Class B criterion is benzo(a)anthracene. This compound was detected only in the May 2007 sampling. The detections of benzo(a)anthracene are low at 0.2 – 0.3 µg/L, which exceed the Class B water quality criteria of 0.03 µg/L. Surface water sample location SW-08 is also upstream from the site drainage pattern and exceeded the guidance criteria for benzo(a)anthracene. Vanadium was also detected in SW-08 at 0.015 mg/l, which exceeds the Class B criteria level of 0.014 mg/l. Additionally, aluminum and iron exceed Class B standards, but are most likely naturally occurring and are unlikely to be caused by remedial activities.

Tables 3, 4, and 5 in Appendix E present the historical sediment data with the TOC revised sediment guidance criteria for wildlife bioaccumulation (organics), chronic benthic impact (organics), and lowest and severe effects levels (for metals), respectively.

Table 3 in Appendix E contains a historical summary of detected sediment analytical results compared with the wildlife bioaccumulation guidance values. In the May 2007 analytical data, no wildlife bioaccumulation guidance criteria were exceeded. Based on the sample specific TOC, historically, only PCBs have exceeded the Wildlife Bioaccumulation factor guidance criteria in sediments from the SW-02 and SW-07 sample locations. The PCB results that exceeded the wildlife criteria were in sediment at location SW-02 were detected in May 2005. The May 2004 and May 2006 analytical data did not report any PCB detections at the same location. PCB Aroclor 1248 was detected in May 2005 and May 2006 in sediment at the SW-07 sample location. The PCB analytical results decreased from 118 µg/kg in May 2005 to 34 µg/kg in May 2006, which exceed the sediment guidance criteria of 13.2 µg/kg.

Table 4 in Appendix E contains a historical summary of detected sediment analytical results compared with the benthic chronic protection guidance values. In May 2007, the sediment sample analytical results exceeded the benthic chronic protection criteria for naphthalene (at locations SW-04, SW-07, and SW-08) with results ranging from 1,500 to 3,500 µg/kg. This is the first time that naphthalene has been detected in the sediment samples. All of the naphthalene detections in sediment samples occurred along local roadways. Additionally, naphthalene has rarely been detected in groundwater samples at the site indicating that the naphthalene detected in the sediment samples may be attributable to an offsite source. In May 2007, the sediment sample analytical results exceeded the benthic chronic protection criteria for benzo(a)anthracene (location SW-02) with a result of 340 µg/kg. Benzo(a)anthracene was detected in several sediment samples, but has decreased in concentration and number of detections since the first round of sediment analysis.

In Table 5 in Appendix E, the historical sediment results are compared to the lowest and severe effects levels screening criteria for inorganic analytes. Cadmium, copper, lead, manganese, nickel, and zinc exceeded the lowest effect levels screening criteria in several

samples. None of the inorganic analytes exceeded the severe effects levels. In general, the inorganic analyte concentrations have been decreasing or remaining relatively constant over time.

While several concentrations in the surface water and sediment samples exceeded the applicable standards or screening criteria, most of the concentrations have decreased over time indicating that the site is not contributing to the offsite migration of contamination. Also, considering that the overburden groundwater is under hydraulic control at the site, there is little concern that landfill leachate is affecting the surrounding area. The approved O&M plan states that surface water and sediment sampling can be discontinued based on providing evidence that there was no impact from the construction of remedial systems at the site. Pre-construction surface water and sediment data was not collected; therefore, we cannot compare the recent surface water and sediment analytical data to pre-construction levels. Therefore based on the fact that the detections are low, appear to be decreasing in most locations, and are compounds typically found in urban areas; we request that surface water and sediment sampling is discontinued in accordance with the approved O&M Manual.

Wetland Inspection Summary: An inspection of the wetlands during the May 2007 event indicated that most of the replanted wetland stock has flourished and the wetland areas are returning to their natural state. As noted in Section 3.1, SG-02 wetland survey point does not have elevation survey data. URS recommends that the SG-02 wetland gauging point be surveyed to provide reference elevations for inclusion in future reports.

TABLES

TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-01D	GW-01S	GW-03D	GW-03S	GW-04D
Sample ID				GW-1D	GW-1S	GW-3D	GW-3S	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/24/07	05/24/07	05/22/07	05/22/07	05/23/07
Parameter	Units	(1)	(2)					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	5	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Acetone	UG/L	50	-	5.0 U	5.0 U	1.8 J	5.0 U	5.0 U
Benzene	UG/L	1	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	2	-	1.0 U	1.0 U	1.2	1.0 U	1.0 U
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	10 U	10 U	2 J	10 U	10 U
1,4-Dichlorobenzene	UG/L	3	-	10 U	10 U	3 J	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	5	-	5 U	5 U	5 U	5 U	5 U
Phenol	UG/L	1	-	5 U	5 U	5 U	5 U	5 U
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000457 U	0.000619 U	0.000526 U	0.000491 U	0.00054 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000343 U	0.000454 U	0.000304 U	0.00039 U	0.000442 U
Metals								
Antimony	MG/L	0.003	-	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic	MG/L	0.025	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	MG/L	1	-	0.070	0.24	0.11	0.21	0.059
Cadmium	MG/L	0.005	-	0.0038	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Chromium	MG/L	0.05	-	0.0040 U	0.0040 U	0.0040 U	0.023	0.0040 U
Copper	MG/L	0.2	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

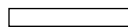
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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Detection Limits shown are PQL

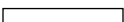
TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-01D	GW-01S	GW-03D	GW-03S	GW-04D
Sample ID				GW-1D	GW-1S	GW-3D	GW-3S	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/24/07	05/24/07	05/22/07	05/22/07	05/23/07
Parameter	Units	(1)	(2)					
Metals								
Iron	MG/L	0.3	-	3.2	7.6	2.8	2.2	0.31
Lead	MG/L	0.025	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Magnesium	MG/L	35	-	39.3	36.9	19.6	78.5	55.6
Manganese	MG/L	0.3	-	0.048	0.93	1.1	0.30	0.019
Mercury	MG/L	7.00E-04	-	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	MG/L	0.1	-	0.010 U	0.010 U	0.010 U	0.10	0.010 U
Silver	MG/L	0.05	-	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Sodium	MG/L	20	-	109	325	237	51.1	3,470
Zinc	MG/L	2	-	0.037	0.010 U	0.040	0.025	0.082
Radionuclides								
Actinium 228 (Insoluble)	PC/L	-	3270	73 U	78 U	88 U	75 U	73 U
Actinium 228 (Soluble)	PC/L	-	3270	50 U	60 U	52 U	55 U	50 U
Barium 133 (Insoluble)	PC/L	-	1520	23 U	20 U	30 U	23 U	22 U
Barium 133 (Soluble)	PC/L	-	1520	13 U	14 U	13 U	15 U	13 U
Bismuth 212 (Insoluble)	PC/L	-	-	160 U	160 U	200 U	130 U	200 U
Bismuth 212 (Soluble)	PC/L	-	-	83 U	91 U	78 U	95 U	99 U
Bismuth 214 (Insoluble)	PC/L	-	18900	39 U	53 U	55 U	38 U	60 U
Bismuth 214 (Soluble)	PC/L	-	18900	31 U	30 U	73 ± 2.80E+01	31 ± 1.80E+01	30 U
Cesium 134 (Insoluble)	PC/L	-	80	22 U	22 U	22 U	21 U	25 U
Cesium 134 (Soluble)	PC/L	-	80	12 U	10 U	14 U	15 U	13 U

(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.

- = No Criteria

Detection Limits shown are PQL

TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-01D	GW-01S	GW-03D	GW-03S	GW-04D
Sample ID				GW-1D	GW-1S	GW-3D	GW-3S	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/24/07	05/24/07	05/22/07	05/22/07	05/23/07
Parameter	Units	(1)	(2)					
Radionuclides								
Cesium 137 (Insoluble)	PCI/L	-	200	16 U	22 U	22 U	17 U	20 U
Cesium 137 (Soluble)	PCI/L	-	200	13 U	13 U	14 U	11 U	14 U
Cobalt 60 (Insoluble)	PCI/L	-	100	37 U	20 U	17 U	30 U	26 U
Cobalt 60 (Soluble)	PCI/L	-	100	17 U	17 U	11 U	5.5 U	18 U
Lead 212 (Insoluble)	PCI/L	-	123	33 U	32 U	34 U	25 U	39 U
Lead 212 (Soluble)	PCI/L	-	123	17 U	20 U	20 U	20 U	21 U
Lead 214 (Insoluble)	PCI/L	-	11800	40 U	36 U	47 U	35 U	47 U
Lead 214 (Soluble)	PCI/L	-	11800	26 ± 1.30E+01	24 U	26 U	27 U	26 U
Proactinium 234M (Insoluble)	PCI/L	-	-	2,900 U	2,600 U	2,900 U	1,200 U	2,800 U
Proactinium 234M (Soluble)	PCI/L	-	-	1,500 U	1,700 U	1,700 U	2,200 U	1,900 U
Potassium 40 (Insoluble)	PCI/L	-	-	320 U	360 U	450 U	290 U	460 U
Potassium 40 (Soluble)	PCI/L	-	-	190 U	170 U	180 U	200 U	140 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	22 U	21 U	27 U	19 U	29 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	11 U	14 U	15 U	11 U	13 U
Thorium 234 (Insoluble)	PCI/L	-	401	270 U	190 U	210 U	300 U	220 U
Thorium 234 (Soluble)	PCI/L	-	401	310 U	140 U	160 U	310 U	130 U
Uranium 235 (Insoluble)	PCI/L	-	-	110 U	80 U	100 U	70 U	87 U
Uranium 235 (Soluble)	PCI/L	-	-	52 U	42 U	48 U	55 U	54 U
Zinc 65 (Insoluble)	PCI/L	-	-	74 U	46 U	84 U	100 U	43 U
Zinc 65 (Soluble)	PCI/L	-	-	29 U	27 U	28 U	30 U	27 U

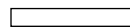
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Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-04S	GW-07D	GW-07S	GW-08D	GW-08SR
Sample ID				GW-4S	GW-7D	GW-7S	GW-8D	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/23/07	05/24/07	05/24/07	05/22/07	05/22/07
Parameter	Units	(1)	(2)					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	5	-	2.0 U	2.0 U	2.0 U	2.6	2.0 U
Acetone	UG/L	50	-	2.6 J	6.6	5.0 U	1.8 J	3.0 J
Benzene	UG/L	1	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	2	-	1.0 U	1.0 U	1.0 U	1.5	2.2
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	10 U	11 U	11 U	10 U	10 U
1,4-Dichlorobenzene	UG/L	3	-	10 U	11 U	11 U	0.2 J	10 U
bis(2-Ethylhexyl)phthalate	UG/L	5	-	5 U	6 U	6 U	5 U	5 U
Phenol	UG/L	1	-	5 U	6 U	6 U	5 U	5 U
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000512 U	0.000656 U	0.000497 U	0.0007 U	0.000701 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000437 U	0.000763 U	0.000414 U	0.000452 U	0.000453 U
Metals								
Antimony	MG/L	0.003	-	0.020 U	0.020	0.020 U	0.020 U	0.020 U
Arsenic	MG/L	0.025	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	MG/L	1	-	0.092	0.14	0.19	0.11	0.41
Cadmium	MG/L	0.005	-	0.0010 U	0.0010	0.0010 U	0.0010 U	0.0010 U
Chromium	MG/L	0.05	-	0.0040 U	0.28	0.0040 U	0.0055	0.0040 U
Copper	MG/L	0.2	-	0.010 U	0.16	0.010 U	0.010 U	0.010 U

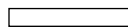
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Concentration Exceeds (1)



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TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-04S	GW-07D	GW-07S	GW-08D	GW-08SR
Sample ID				GW-4S	GW-7D	GW-7S	GW-8D	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/23/07	05/24/07	05/24/07	05/22/07	05/22/07
Parameter	Units	(1)	(2)					
Metals								
Iron	MG/L	0.3	-	0.87	36.4	0.40	6.5	12.5
Lead	MG/L	0.025	-	0.0050 U	0.80	0.0050 U	0.0050 U	0.0050 U
Magnesium	MG/L	35	-	24.5	32.7	27.5	22.4	39.7
Manganese	MG/L	0.3	-	0.28	0.28	0.13	1.5	0.67
Mercury	MG/L	7.00E-04	-	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	MG/L	0.1	-	0.010 U	0.16	0.010 U	0.010 U	0.010 U
Silver	MG/L	0.05	-	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Sodium	MG/L	20	-	35.7	93.9	55.9	186	180
Zinc	MG/L	2	-	0.010 U	0.56	0.017	0.079	0.010 U
Radionuclides								
Actinium 228 (Insoluble)	PC/L	-	3270	70 U	84 U	90 U	80 U	81 U
Actinium 228 (Soluble)	PC/L	-	3270	70 U	70 U	50 U	70 U	60 U
Barium 133 (Insoluble)	PC/L	-	1520	24 U	20 U	21 U	21 U	22 U
Barium 133 (Soluble)	PC/L	-	1520	13 U	15 U	12 U	15 U	9.9 U
Bismuth 212 (Insoluble)	PC/L	-	-	150 U	150 U	160 U	140 U	160 U
Bismuth 212 (Soluble)	PC/L	-	-	91 U	96 U	100 U	120 U	94 U
Bismuth 214 (Insoluble)	PC/L	-	18900	35 U	50 U	50 U	50 U	53 U
Bismuth 214 (Soluble)	PC/L	-	18900	98 ± 2.40E+01	26 U	32 U	29 U	33 U
Cesium 134 (Insoluble)	PC/L	-	80	30 U	19 U	15 U	17 U	20 U
Cesium 134 (Soluble)	PC/L	-	80	15 U	12 U	14 U	14 U	11 U

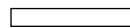
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Flags assigned during chemistry validation are shown.



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Detection Limits shown are PQL

TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-04S	GW-07D	GW-07S	GW-08D	GW-08SR
Sample ID				GW-4S	GW-7D	GW-7S	GW-8D	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/23/07	05/24/07	05/24/07	05/22/07	05/22/07
Parameter	Units	(1)	(2)					
Radionuclides								
Cesium 137 (Insoluble)	PCI/L	-	200	25 U	18 U	19 U	19 U	22 U
Cesium 137 (Soluble)	PCI/L	-	200	13 U	13 U	15 U	14 U	12 U
Cobalt 60 (Insoluble)	PCI/L	-	100	26 U	30 U	27 U	9.6 U	27 U
Cobalt 60 (Soluble)	PCI/L	-	100	13 U	25 U	17 U	18 U	16 U
Lead 212 (Insoluble)	PCI/L	-	123	27 U	28 U	33 U	34 U	34 U
Lead 212 (Soluble)	PCI/L	-	123	18 U	17 U	20 U	16 U	17 U
Lead 214 (Insoluble)	PCI/L	-	11800	40 U	35 U	39 U	37 U	50 U
Lead 214 (Soluble)	PCI/L	-	11800	30 ± 1.60E+01	25 U	20 U	25 U	21 U
Proactinium 234M (Insoluble)	PCI/L	-	-	1,200 U	2,800 U	2,600 U	2,600 U	3,500 U
Proactinium 234M (Soluble)	PCI/L	-	-	2,000 U	1,900 U	1,400 U	1,800 U	1,500 U
Potassium 40 (Insoluble)	PCI/L	-	-	310 U	340 U	360 U	340 U	430 U
Potassium 40 (Soluble)	PCI/L	-	-	270 U	160 U	190 U	140 U	180 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	19 U	16 U	23 U	23 U	30 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	15 U	14 U	11 U	20 U	11 U
Thorium 234 (Insoluble)	PCI/L	-	401	230 U	190 U	200 U	210 U	230 U
Thorium 234 (Soluble)	PCI/L	-	401	150 U	140 U	310 U	140 U	300 U
Uranium 235 (Insoluble)	PCI/L	-	-	80 U	53 U	70 U	68 U	79 U
Uranium 235 (Soluble)	PCI/L	-	-	43 U	48 U	46 U	45 U	63 U
Zinc 65 (Insoluble)	PCI/L	-	-	48 U	55 U	44 U	56 U	58 U
Zinc 65 (Soluble)	PCI/L	-	-	37 U	38 U	26 U	33 U	30 U

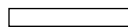
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Concentration Exceeds (1)



Concentration Exceeds (2)

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- = No Criteria

Detection Limits shown are PQL

TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-26D	GW-28S	GW-29S	GW-30S	GW-30S
Sample ID				GW-26D	GW-28S	GW-29S	DUP-052307	GW-30S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	05/22/07	05/24/07	05/23/07	05/23/07
Parameter	Units	(1)	(2)				Field Duplicate (1-1)	
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethene (total)	UG/L	5	-	2.0 U	2.0 U	2.0 U	2.0 U	10 U
Acetone	UG/L	50	-	5.0 U	3.5 J	5.0 U	5.0 U	25 U
Benzene	UG/L	1	-	1.0 U	0.71 J	1.0 U	1.0 U	5.0 U
Vinyl chloride	UG/L	2	-	1.2	1.0 U	1.0 U	1.0 U	5.0 U
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	UG/L	3	-	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	5	-	5 U	5 U	5 U	5 U	5 U
Phenol	UG/L	1	-	5 U	5 U	5 U	0.6 J	5 U
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000387 U	0.000564 U	0.000591 U	0.000475 U	0.000515 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000324 U	0.000357 U	0.000389 U	0.000448 U	0.000485 U
Metals								
Antimony	MG/L	0.003	-	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic	MG/L	0.025	-	0.010 U	0.010 U	0.011	0.010 U	0.010 U
Barium	MG/L	1	-	0.30	0.12	0.20	0.42	0.41
Cadmium	MG/L	0.005	-	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Chromium	MG/L	0.05	-	0.0040 U	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Copper	MG/L	0.2	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

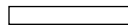
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Concentration Exceeds (1)



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TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-26D	GW-28S	GW-29S	GW-30S	GW-30S
Sample ID				GW-26D	GW-28S	GW-29S	DUP-052307	GW-30S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	05/22/07	05/24/07	05/23/07	05/23/07
Parameter	Units	(1)	(2)				Field Duplicate (1-1)	
Metals								
Iron	MG/L	0.3	-	5.2	0.76	8.2	14.2	15.2
Lead	MG/L	0.025	-	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Magnesium	MG/L	35	-	34.8	53.5	66.4	58.6	57.8
Manganese	MG/L	0.3	-	0.89	1.6	0.61	2.9	2.8
Mercury	MG/L	7.00E-04	-	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	MG/L	0.1	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Silver	MG/L	0.05	-	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Sodium	MG/L	20	-	528	53.3	17.5	838	815
Zinc	MG/L	2	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Radionuclides								
Actinium 228 (Insoluble)	PC/L	-	3270	85 U	83 U	44 U	87 U	79 U
Actinium 228 (Soluble)	PC/L	-	3270	54 U	49 U	51 U	51 U	55 U
Barium 133 (Insoluble)	PC/L	-	1520	24 U	20 U	20 U	25 U	19 U
Barium 133 (Soluble)	PC/L	-	1520	8.7 U	11 U	11 U	12 U	14 U
Bismuth 212 (Insoluble)	PC/L	-	-	170 U	140 U	130 U	160 U	140 U
Bismuth 212 (Soluble)	PC/L	-	-	90 U	94 U	100 U	89 U	100 U
Bismuth 214 (Insoluble)	PC/L	-	18900	50 U	49 U	37 U	52 U	46 U
Bismuth 214 (Soluble)	PC/L	-	18900	30 U	32 U	31 U	30 U	28 U
Cesium 134 (Insoluble)	PC/L	-	80	20 U	18 U	23 U	23 U	18 U
Cesium 134 (Soluble)	PC/L	-	80	13 U	12 U	8.9 U	13 U	9.3 U

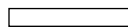
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Concentration Exceeds (2)

J - The analyte was positively identified, the quantitation is an estimation.

- = No Criteria

Detection Limits shown are PQL

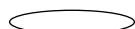
TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-26D	GW-28S	GW-29S	GW-30S	GW-30S
Sample ID				GW-26D	GW-28S	GW-29S	DUP-052307	GW-30S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	05/22/07	05/24/07	05/23/07	05/23/07
Parameter	Units	(1)	(2)				Field Duplicate (1-1)	
Radionuclides								
Cesium 137 (Insoluble)	PCI/L	-	200	20 U	19 U	20 U	22 U	20 U
Cesium 137 (Soluble)	PCI/L	-	200	14 U	16 U	13 U	12 U	13 U
Cobalt 60 (Insoluble)	PCI/L	-	100	15 U	30 U	36 U	27 U	13 U
Cobalt 60 (Soluble)	PCI/L	-	100	15 U	14 U	16 U	17 U	16 U
Lead 212 (Insoluble)	PCI/L	-	123	30 U	29 U	33 U	32 U	32 U
Lead 212 (Soluble)	PCI/L	-	123	20 U	20 U	20 U	29 U	16 U
Lead 214 (Insoluble)	PCI/L	-	11800	48 U	34 U	31 U	46 U	35 U
Lead 214 (Soluble)	PCI/L	-	11800	20 U	23 U	23 U	23 U	23 U
Proactinium 234M (Insoluble)	PCI/L	-	-	2,100 U	2,500 U	2,200 U	2,100 U	3,000 U
Proactinium 234M (Soluble)	PCI/L	-	-	1,800 U	1,700 U	1,600 U	2,200 U	540 U
Potassium 40 (Insoluble)	PCI/L	-	-	440 U	400 U	250 U	440 U	400 U
Potassium 40 (Soluble)	PCI/L	-	-	170 U	180 U	210 U	180 U	140 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	27 U	22 U	23 U	28 U	21 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	12 U	11 U	12 U	12 U	17 U
Thorium 234 (Insoluble)	PCI/L	-	401	220 U	200 U	270 U	230 U	290 U
Thorium 234 (Soluble)	PCI/L	-	401	300 U	320 U	300 U	310 U	160 U
Uranium 235 (Insoluble)	PCI/L	-	-	75 U	63 U	80 U	83 U	80 U
Uranium 235 (Soluble)	PCI/L	-	-	55 U	59 U	52 ± 3.00E+01	51 U	48 U
Zinc 65 (Insoluble)	PCI/L	-	-	50 U	53 U	74 U	48 U	53 U
Zinc 65 (Soluble)	PCI/L	-	-	29 U	30 U	37 U	29 U	33 U

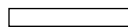
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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.

- = No Criteria

Detection Limits shown are PQL

TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-31S	GW-32S	GW-33S	GW-34S	GW-35S
Sample ID				GW-31S	GW-32S	GW-33S	GW-34S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	05/25/07	05/25/07	05/23/07	05/25/07
Parameter	Units	(1)	(2)					
Volatile Organic Compounds								
1,1,2-Trichloroethane	UG/L	1	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	UG/L	5	-	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Acetone	UG/L	50	-	160 U	5.0 U	6.1 U	5.0 U	5.0 U
Benzene	UG/L	1	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	2	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds								
1,3-Dichlorobenzene	UG/L	3	-	10 U	10 U	11 U	10 U	10 U
1,4-Dichlorobenzene	UG/L	3	-	10 U	10 U	11 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	5	-	13	5 U	5 U	5 U	5 U
Phenol	UG/L	1	-	5 U	5 U	5 U	5 U	5 U
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000466 U	0.000447 U	0.000334 U	0.000463 U	0.00043 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000414 U	0.00036 U	0.000296 U	0.000436 U	0.000282 U
Metals								
Antimony	MG/L	0.003	-	0.020 U	0.020 U	0.020 U	0.020 U	0.020 U
Arsenic	MG/L	0.025	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Barium	MG/L	1	-	0.12	0.044	0.027	0.17	0.043
Cadmium	MG/L	0.005	-	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
Chromium	MG/L	0.05	-	0.044	0.0040 U	0.0040 U	0.0040 U	0.0040 U
Copper	MG/L	0.2	-	0.019	0.010 U	0.010 U	0.010 U	0.010 U

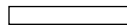
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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.

- = No Criteria

Detection Limits shown are PQL

TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-31S	GW-32S	GW-33S	GW-34S	GW-35S
Sample ID				GW-31S	GW-32S	GW-33S	GW-34S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	05/25/07	05/25/07	05/23/07	05/25/07
Parameter	Units	(1)	(2)					
Metals								
Iron	MG/L	0.3	-	10.6	0.20	0.24	0.33	0.050 U
Lead	MG/L	0.025	-	0.0090	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Magnesium	MG/L	35	-	47.0	32.8	26.0	47.0	27.5
Manganese	MG/L	0.3	-	1.2	0.17	0.20	0.64	0.49
Mercury	MG/L	7.00E-04	-	0.00020 U	0.00020 U	0.00020 U	0.00020 U	0.00020 U
Nickel	MG/L	0.1	-	0.032	0.010 U	0.010 U	0.010 U	0.010 U
Silver	MG/L	0.05	-	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Sodium	MG/L	20	-	6.6	5.0	3.6	31.8	3.6
Zinc	MG/L	2	-	0.092	0.010 U	0.010 U	0.010 U	0.010 U
Radionuclides								
Actinium 228 (Insoluble)	PC/L	-	3270	70 U	66 U	74 U	80 U	91 U
Actinium 228 (Soluble)	PC/L	-	3270	50 U	50 U	45 U	51 U	49 U
Barium 133 (Insoluble)	PC/L	-	1520	22 U	18 U	20 U	22 U	21 U
Barium 133 (Soluble)	PC/L	-	1520	11 U	14 U	13 U	12 U	11 U
Bismuth 212 (Insoluble)	PC/L	-	-	120 U	140 U	150 U	140 U	190 U
Bismuth 212 (Soluble)	PC/L	-	-	63 U	110 U	93 U	92 U	110 U
Bismuth 214 (Insoluble)	PC/L	-	18900	45 U	40 U	52 U	51 U	48 U
Bismuth 214 (Soluble)	PC/L	-	18900	27 U	29 U	29 U	28 U	26 ± 1.50E+01
Cesium 134 (Insoluble)	PC/L	-	80	24 U	17 U	22 U	19 U	19 U
Cesium 134 (Soluble)	PC/L	-	80	9.9 U	11 U	13 U	12 U	12 U

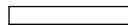
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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.

- = No Criteria

Detection Limits shown are PQL

TABLE 3-1
GROUNDWATER SAMPLE RESULTS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				GW-31S	GW-32S	GW-33S	GW-34S	GW-35S
Sample ID				GW-31S	GW-32S	GW-33S	GW-34S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	05/25/07	05/25/07	05/23/07	05/25/07
Parameter	Units	(1)	(2)					
Radionuclides								
Cesium 137 (Insoluble)	PCI/L	-	200	21 U	21 U	19 U	18 U	18 U
Cesium 137 (Soluble)	PCI/L	-	200	13 U	14 U	13 U	12 U	10 U
Cobalt 60 (Insoluble)	PCI/L	-	100	20 U	29 U	25 U	9.6 U	37 U
Cobalt 60 (Soluble)	PCI/L	-	100	16 U	18 U	15 U	10 U	13 U
Lead 212 (Insoluble)	PCI/L	-	123	28 U	25 U	37 U	37 U	29 U
Lead 212 (Soluble)	PCI/L	-	123	19 U	30 U	16 U	21 U	19 U
Lead 214 (Insoluble)	PCI/L	-	11800	36 U	34 U	36 U	37 U	33 U
Lead 214 (Soluble)	PCI/L	-	11800	26 U	25 U	22 U	22 U	19 U
Proactinium 234M (Insoluble)	PCI/L	-	-	2,900 U	3,000 U	3,000 U	400 U	3,300 U
Proactinium 234M (Soluble)	PCI/L	-	-	1,600 U	1,700 U	1,900 U	200 U	1,600 U
Potassium 40 (Insoluble)	PCI/L	-	-	330 U	190 U	330 U	2,200 U	250 U
Potassium 40 (Soluble)	PCI/L	-	-	190 U	270 U	190 U	1,800 U	180 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	20 U	18 U	21 U	24 U	19 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	10 U	15 U	12 U	11 U	10 U
Thorium 234 (Insoluble)	PCI/L	-	401	260 U	140 U	180 U	180 U	200 U
Thorium 234 (Soluble)	PCI/L	-	401	140 U	150 U	280 U	330 U	300 U
Uranium 235 (Insoluble)	PCI/L	-	-	80 U	40 U	77 U	73 U	63 U
Uranium 235 (Soluble)	PCI/L	-	-	60 U	47 U	58 U	65 U	53 U
Zinc 65 (Insoluble)	PCI/L	-	-	53 U	42 U	42 U	42 U	55 U
Zinc 65 (Soluble)	PCI/L	-	-	34 U	28 U	33 U	28 U	33 U

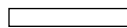
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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.

- = No Criteria

Detection Limits shown are PQL

TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID			SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID			SW-01	SW-02	SW-03	DUP-052107	SW-04
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units	Criteria*				Field Duplicate (0-1)	
Volatile Organic Compounds							
Acetone	UG/L	-					
Semivolatile Organic Compounds							
Benzo(a)anthracene	UG/L	0.03	0.3 J	0.2 J			
Benzo(a)pyrene	UG/L	0.0012	0.3 J				
Benzo(b)fluoranthene	UG/L	-	0.4 J				
Chrysene	UG/L	-	0.3 J				
Fluoranthene	UG/L	-	0.5 J				
Indeno(1,2,3-cd)pyrene	UG/L	-	0.2 J				
Phenanthrene	UG/L	5	0.2 J				
Pyrene	UG/L	4.6	0.4 J				
Metals							
Aluminum	MG/L	0.1 ionic	3.4			0.24	0.25
Arsenic	MG/L	0.15					
Barium	MG/L	-	0.075	0.052	0.053	0.028	0.027
Calcium	MG/L	-	66.4	78.1	77.5	64.9	64.4
Chromium	MG/L	193 *	0.0063				
Copper	MG/L	24.3 *	0.011				
Iron	MG/L	0.3	5.9	0.50	0.63	0.91	0.85
Lead	MG/L	13.1 *	0.022				
Magnesium	MG/L	-	16.4	17.2	17.0	12.8	12.7
Manganese	MG/L	-	0.17	0.065	0.13	0.089	0.086
Potassium	MG/L	-	3.7	2.5	2.5	0.61	0.60

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B. * - Criteria based on average hardness concentration of all samples.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No Criteria.

J - The analyte was positively identified, the quantitation is an estimation. Blank - The analyte was not detected.

Only Detected Results Reported.

TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID			SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID			SW-01	SW-02	SW-03	DUP-052107	SW-04
Matrix			Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units	Criteria*				Field Duplicate (0-1)	
Metals							
Sodium	MG/L	-	241	197	190	110	95.6
Vanadium	MG/L	0.014 acid soluble	0.0063				
Zinc	MG/L	223 *	0.087				

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B. * - Criteria based on average hardness concentration of all samples.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No Criteria.

J - The analyte was positively identified, the quantitation is an estimation. Blank - The analyte was not detected.

Only Detected Results Reported.

TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID			SW-06	SW-07	SW-08
Sample ID			SW-06	SW-07	SW-08
Matrix			Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-
Date Sampled			05/21/07	05/21/07	05/21/07
Parameter	Units	Criteria*			
Volatile Organic Compounds					
Acetone	UG/L	-			2.6 J
Semivolatile Organic Compounds					
Benzo(a)anthracene	UG/L	0.03			0.3 J
Benzo(a)pyrene	UG/L	0.0012			
Benzo(b)fluoranthene	UG/L	-			
Chrysene	UG/L	-			
Fluoranthene	UG/L	-			0.3 J
Indeno(1,2,3-cd)pyrene	UG/L	-			
Phenanthrene	UG/L	5			
Pyrene	UG/L	4.6			0.3 J
Metals					
Aluminum	MG/L	0.1 ionic	0.21		4.9
Arsenic	MG/L	0.15			0.021
Barium	MG/L	-	0.030	0.045	0.33
Calcium	MG/L	-	114	103	143
Chromium	MG/L	193 *			0.017
Copper	MG/L	24.3 *			0.041
Iron	MG/L	0.3	0.38	0.36	94.1
Lead	MG/L	13.1 *			0.028
Magnesium	MG/L	-	33.4	27.0	33.5
Manganese	MG/L	-	0.92	0.19	1.9
Potassium	MG/L	-	5.0	2.2	3.3

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B. * - Criteria based on average hardness concentration of all samples.

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria

- = No Criteria.

J - The analyte was positively identified, the quantitation is an estimation. Blank - The analyte was not detected.

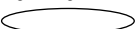
Only Detected Results Reported.

TABLE 3-2
DETECTED ANALYTES IN SURFACE WATER
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID			SW-06	SW-07	SW-08
Sample ID			SW-06	SW-07	SW-08
Matrix			Surface Water	Surface Water	Surface Water
Depth Interval (ft)			-	-	-
Date Sampled			05/21/07	05/21/07	05/21/07
Parameter	Units	Criteria*			
Metals					
Sodium	MG/L	-	25.6	134	137
Vanadium	MG/L	0.014 acid soluble			0.015
Zinc	MG/L	223 *	0.012		0.15

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B. * - Criteria based on average hardness concentration of all samples.

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria

- = No Criteria.

J - The analyte was positively identified, the quantitation is an estimation. Blank - The analyte was not detected.

Only Detected Results Reported.

TABLE 3-3
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO WILDLIFE BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID		SED-01	SED-02	SED-03	DUP-052107	SED-04
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units				Field Duplicate (0-1)	
Volatile Organic Compounds						
Carbon disulfide	UG/KG		2 J	2 J	4 J	
Methyl ethyl ketone (2-Butanone)	UG/KG			11 J	22 J	
Methylene chloride	UG/KG				61	
Toluene	UG/KG			4 J		
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG				180 J	
2-Methylphenol (o-cresol)	UG/KG					
4-Methylphenol (p-cresol)	UG/KG			460 J		
Acenaphthene	UG/KG					
Acenaphthylene	UG/KG				140 J	
Anthracene	UG/KG					
Benzo(a)anthracene	UG/KG	570 J	340 J	190 J	560 J	360 J
Benzo(a)pyrene	UG/KG	730 J	430 J	220 J	540 J	460 J
Benzo(b)fluoranthene	UG/KG	1,500 J	710 J	360 J	980 J	720 J
Benzo(g,h,i)perylene	UG/KG	930 J	480 J	260 J	540 J	610 J
Benzo(k)fluoranthene	UG/KG	300 J	260 J	130 J		270 J
Carbazole	UG/KG					
Chrysene	UG/KG	780 J	370 J	260 J	490 J	510 J
Dibenz(a,h)anthracene	UG/KG	230 J	130 J	65 J	140 J	
Dibenzofuran	UG/KG					
Di-n-octylphthalate	UG/KG					
Fluoranthene	UG/KG	1,300 J	700 J	390 J	930 J	880 J
Fluorene	UG/KG					

Flags assigned during chemistry validation are shown.

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.

() - Criterion is listed in the ().

Only Detected Results Reported.

Advanced Selection: SED-1
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[MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] BETWEEN #5/01/2007# AND #5/30/2007# AND [PRCCODE] <> 'MET'

TABLE 3-3
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO WILDLIFE BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID		SED-01	SED-02	SED-03	DUP-052107	SED-04
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units				Field Duplicate (0-1)	
Semivolatile Organic Compounds						
Indeno(1,2,3-cd)pyrene	UG/KG	760 J	400 J	200 J	480 J	460 J
Naphthalene	UG/KG				3,500	
Phenanthrene	UG/KG	380 J	210 J	120 J	540 J	410 J
Pyrene	UG/KG	980 J	570 J	310 J	730 J	650 J
Miscellaneous Parameters						
Total Organic Carbon (TOC)	MG/KG	57,500	20,600	30,700	75,900	53,800

Flags assigned during chemistry validation are shown.

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.

() - Criterion is listed in the ().

Only Detected Results Reported.

TABLE 3-3
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO WILDLIFE BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-06	SW-07	SW-08
Sample ID		SED-06	SED-07	SED-08
Matrix		Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07
Parameter	Units			
Volatile Organic Compounds				
Carbon disulfide	UG/KG	3 J	3 J	
Methyl ethyl ketone (2-Butanone)	UG/KG			
Methylene chloride	UG/KG			
Toluene	UG/KG			
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	60 J	150 J	330 J
2-Methylphenol (o-cresol)	UG/KG		18 J	
4-Methylphenol (p-cresol)	UG/KG		29 J	
Acenaphthene	UG/KG	14 J		
Acenaphthylene	UG/KG	36 J	47 J	
Anthracene	UG/KG	52 J	20 J	250 J
Benzo(a)anthracene	UG/KG	210 J	73 J	910 J
Benzo(a)pyrene	UG/KG	220 J	56 J	1,100 J
Benzo(b)fluoranthene	UG/KG	350	110 J	1,700 J
Benzo(g,h,i)perylene	UG/KG	220 J	50 J	1,400 J
Benzo(k)fluoranthene	UG/KG	120 J		530 J
Carbazole	UG/KG	40 J	10 J	160 J
Chrysene	UG/KG	280 J	66 J	1,300 J
Dibenz(a,h)anthracene	UG/KG	50 J	13 J	300 J
Dibenzofuran	UG/KG	21 J	25 J	
Di-n-octylphthalate	UG/KG		18 J	
Fluoranthene	UG/KG	510	120 J	2,300 J
Fluorene	UG/KG	31 J		

Flags assigned during chemistry validation are shown.

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.

() - Criterion is listed in the ().

Only Detected Results Reported.

Advanced Selection: SED-1
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[MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] BETWEEN #5/01/2007# AND #5/30/2007# AND [PRCCODE] <> 'MET'

TABLE 3-3
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO WILDLIFE BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-06	SW-07	SW-08
Sample ID		SED-06	SED-07	SED-08
Matrix		Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07
Parameter	Units			
Semivolatile Organic Compounds				
Indeno(1,2,3-cd)pyrene	UG/KG	180 J	45 J	1,000 J
Naphthalene	UG/KG	480	1,500	3,300 J
Phenanthrene	UG/KG	290 J	50 J	1,100 J
Pyrene	UG/KG	370	110 J	1,800 J
Miscellaneous Parameters				
Total Organic Carbon (TOC)	MG/KG	32,300	9,420	80,500

Flags assigned during chemistry validation are shown.

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.

() - Criterion is listed in the ().

Only Detected Results Reported.

Advanced Selection: SED-1
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[MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] BETWEEN #5/01/2007# AND #5/30/2007# AND [PRCCODE] <> 'MET'

TABLE 3-4
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO BENTHIC CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID		SED-01	SED-02	SED-03	DUP-052107	SED-04
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units				Field Duplicate (0-1)	
Volatile Organic Compounds						
Carbon disulfide	UG/KG		2 J	2 J	4 J	
Methyl ethyl ketone (2-Butanone)	UG/KG			11 J	22 J	
Methylene chloride	UG/KG				61	
Toluene	UG/KG			4 J (1,504)		
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/KG				180 J (2,581)	
2-Methylphenol (o-cresol)	UG/KG					
4-Methylphenol (p-cresol)	UG/KG			460 J		
Acenaphthene	UG/KG					
Acenaphthylene	UG/KG				140 J	
Anthracene	UG/KG					
Benzo(a)anthracene	UG/KG	570 J (690)	340 J (247)	190 J (368)	560 J (911)	360 J (646)
Benzo(a)pyrene	UG/KG	730 J	430 J	220 J	540 J	460 J
Benzo(b)fluoranthene	UG/KG	1,500 J	710 J	360 J	980 J	720 J
Benzo(g,h,i)perylene	UG/KG	930 J	480 J	260 J	540 J	610 J
Benzo(k)fluoranthene	UG/KG	300 J	260 J	130 J		270 J
Carbazole	UG/KG					
Chrysene	UG/KG	780 J	370 J	260 J	490 J	510 J
Dibenz(a,h)anthracene	UG/KG	230 J	130 J	65 J	140 J	
Dibenzofuran	UG/KG					
Di-n-octylphthalate	UG/KG					
Fluoranthene	UG/KG	1,300 J (58,650)	700 J (21,012)	390 J (31,314)	930 J (77,418)	880 J (54,876)

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria.

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.

() - Criterion is listed in the ().

Only Detected Results Reported.

Advanced Selection: SED-1
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[MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] BETWEEN #5/01/2007# AND #5/30/2007# AND [PRCODE] <> 'MET'

TABLE 3-4
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO BENTHIC CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID		SED-01	SED-02	SED-03	DUP-052107	SED-04
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units				Field Duplicate (0-1)	
Semivolatile Organic Compounds						
Fluorene	UG/KG					
Indeno(1,2,3-cd)pyrene	UG/KG	760 J	400 J	200 J	480 J	460 J
Naphthalene	UG/KG				3,500 (2,277)	
Phenanthrene	UG/KG	380 J (6,900)	210 J (2,472)	120 J (3,684)	540 J (9,108)	410 J (6,456)
Pyrene	UG/KG	980 J (55,258)	570 J (19,797)	310 J (29,503)	730 J (72,940)	650 J (51,702)
Miscellaneous Parameters						
Total Organic Carbon (TOC)	MG/KG	57,500	20,600	30,700	75,900	53,800

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria.

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.

() - Criterion is listed in the ().

Only Detected Results Reported.

Advanced Selection: SED-1
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[MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] BETWEEN #5/01/2007# AND #5/30/2007# AND [PRCODE] <> 'MET'

TABLE 3-4
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO BENTHIC CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-06	SW-07	SW-08
Sample ID		SED-06	SED-07	SED-08
Matrix		Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07
Parameter	Units			
Volatile Organic Compounds				
Carbon disulfide	UG/KG	3 J	3 J	
Methyl ethyl ketone (2-Butanone)	UG/KG			
Methylene chloride	UG/KG			
Toluene	UG/KG			
Semivolatile Organic Compounds				
2-Methylnaphthalene	UG/KG	60 J (1,098)	150 J (320)	330 J (2,737)
2-Methylphenol (o-cresol)	UG/KG		18 J	
4-Methylphenol (p-cresol)	UG/KG		29 J	
Acenaphthene	UG/KG	14 J (4,522)		
Acenaphthylene	UG/KG	36 J	47 J	
Anthracene	UG/KG	52 J (3,456)	20 J (1,008)	250 J (8,614)
Benzo(a)anthracene	UG/KG	210 J (388)	73 J (113)	910 J (966)
Benzo(a)pyrene	UG/KG	220 J	56 J	1,100 J
Benzo(b)fluoranthene	UG/KG	350	110 J	1,700 J
Benzo(g,h,i)perylene	UG/KG	220 J	50 J	1,400 J
Benzo(k)fluoranthene	UG/KG	120 J		530 J
Carbazole	UG/KG	40 J	10 J	160 J
Chrysene	UG/KG	280 J	66 J	1,300 J
Dibenz(a,h)anthracene	UG/KG	50 J	13 J	300 J
Dibenzofuran	UG/KG	21 J	25 J	
Di-n-octylphthalate	UG/KG		18 J	
Fluoranthene	UG/KG	510 (32,946)	120 J (9,608)	2,300 J (82,110)

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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.

() - Criterion is listed in the ().

Only Detected Results Reported.

Advanced Selection: SED-1
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[MATRIX] = 'SE' AND ([SCODE] = 'N' OR [SCODE] = 'FD') AND [LOGDATE] BETWEEN #5/01/2007# AND #5/30/2007# AND [PRCODE] <> 'MET'

TABLE 3-4
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO BENTHIC CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID		SW-06	SW-07	SW-08
Sample ID		SED-06	SED-07	SED-08
Matrix		Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	-
Date Sampled		05/21/07	05/21/07	05/21/07
Parameter	Units			
Semivolatile Organic Compounds				
Fluorene	UG/KG	31 J (258)		
Indeno(1,2,3-cd)pyrene	UG/KG	180 J	45 J	1,000 J
Naphthalene	UG/KG	480 (969)	1,500 (283)	3,300 J (2,415)
Phenanthrene	UG/KG	290 J (3,876)	50 J (1,130)	1,100 J (9,660)
Pyrene	UG/KG	370 (31,040)	110 J (9,053)	1,800 J (77,361)
Miscellaneous Parameters				
Total Organic Carbon (TOC)	MG/KG	32,300	9,420	80,500

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria.

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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.

() - Criterion is listed in the ().

Only Detected Results Reported.

Advanced Selection: SED-1
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[MATRIX] = 'SE' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOGDATE] BETWEEN #5/01/2007# AND #5/30/2007# AND [PRCODE] <> 'MET'

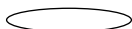
TABLE 3-5
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO LOWEST AND SEVERE EFFECT
LEVELS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID				SED-01	SED-02	SED-03	DUP-052107	SED-04
Matrix				Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units	(1)	(2)				Field Duplicate (0-1)	
Metals								
Aluminum	MG/KG	-	-	7,170	2,630	5,610	5,710	5,910
Antimony	MG/KG	2	25	40.2 U	20.2 U	20.6 U	28.2 U	34.5 U
Arsenic	MG/KG	6	33	5.4 U	2.7 U	2.8 U	3.8 U	4.6 U
Barium	MG/KG	-	-	63.9	17.6	45.0	43.3	49.2
Beryllium	MG/KG	-	-	0.54 U	0.27 U	0.30	0.38 U	0.46 U
Cadmium	MG/KG	0.6	9	1.6	0.31	0.28 U	0.41	0.46 U
Calcium	MG/KG	-	-	16,900	39,300	35,000	25,900	28,600
Chromium	MG/KG	26	110	14.6	6.0	22.9	11.0	13.6
Cobalt	MG/KG	-	-	4.0	1.8	4.7	3.1	3.4
Copper	MG/KG	16	110	27.5	8.4	13.0	17.8	21.4
Iron	MG/KG	20000	40000	13,600	6,150	10,700	9,430	10,500
Lead	MG/KG	31	110	67.5	12.3	12.5	29.2	32.8
Magnesium	MG/KG	-	-	3,890	14,300	10,200	10,100	12,000
Manganese	MG/KG	460	1100	182 J+	167 J+	215 J+	231 J+	254 J+
Mercury	MG/KG	0.15	1.3	0.073	0.028 U	0.028	0.037	0.046 U
Nickel	MG/KG	16	50	12.9	5.6	13.2	9.3	10.7
Potassium	MG/KG	-	-	865	538	912	688	804
Selenium	MG/KG	-	-	10.7 U	5.4 U	5.5 U	7.5 U	9.2 U
Silver	MG/KG	1	2.2	1.3 U	0.67 U	0.69 U	0.94 U	1.1 U
Sodium	MG/KG	-	-	965	218	241	522	680

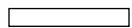
(1)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Lowest Effect Level, January 25, 1999.

(2)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Severe Effect Level, January 25, 1999.

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.

Detection Limits shown are PQL

TABLE 3-5
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO LOWEST AND SEVERE EFFECT
LEVELS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				SW-01	SW-02	SW-03	SW-04	SW-04
Sample ID				SED-01	SED-02	SED-03	DUP-052107	SED-04
Matrix				Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/21/07	05/21/07	05/21/07	05/21/07	05/21/07
Parameter	Units	(1)	(2)				Field Duplicate (0-1)	
Metals								
Thallium	MG/KG	-	-	16.1 U	8.1 U	8.2 U	11.3 U	13.8 U
Vanadium	MG/KG	-	-	16.0	8.5	12.8	14.2	15.6
Zinc	MG/KG	120	270	220	79.2	57.5	102	123

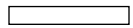
(1)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Lowest Effect Level, January 25, 1999.

(2)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Severe Effect Level, January 25, 1999.

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.

Detection Limits shown are PQL

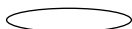
TABLE 3-5
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO LOWEST AND SEVERE EFFECT
LEVELS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				SW-06	SW-07	SW-08
Sample ID				SED-06	SED-07	SED-08
Matrix				Sediment	Sediment	Sediment
Depth Interval (ft)				-	-	-
Date Sampled				05/21/07	05/21/07	05/21/07
Parameter	Units	(1)	(2)			
Metals						
Aluminum	MG/KG	-	-	8,640	3,580	4,420
Antimony	MG/KG	2	25	25.7 U	21.5 U	31.0 U
Arsenic	MG/KG	6	33	4.2	2.9 U	4.1 U
Barium	MG/KG	-	-	59.9	35.4	57.5
Beryllium	MG/KG	-	-	0.41	0.29 U	0.41 U
Cadmium	MG/KG	0.6	9	0.56	0.29 U	0.70
Calcium	MG/KG	-	-	47,100	26,900	52,800
Chromium	MG/KG	26	110	12.8	5.8	23.2
Cobalt	MG/KG	-	-	6.9	3.1	3.7
Copper	MG/KG	16	110	27.4	10.2	55.0
Iron	MG/KG	20000	40000	16,700	12,100	17,500
Lead	MG/KG	31	110	21.3	19.5	44.4
Magnesium	MG/KG	-	-	17,800	9,120	13,200
Manganese	MG/KG	460	1100	598 J+	873 J+	405 J+
Mercury	MG/KG	0.15	1.3	0.033 U	0.031 U	0.042 U
Nickel	MG/KG	16	50	16.1	7.3	13.3
Potassium	MG/KG	-	-	1,540	613	590
Selenium	MG/KG	-	-	6.8 U	5.7 U	8.3 U
Silver	MG/KG	1	2.2	0.86 U	0.72 U	1.0 U
Sodium	MG/KG	-	-	240 U	201 U	1,360

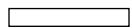
(1)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Lowest Effect Level, January 25, 1999.

(2)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Severe Effect Level, January 25, 1999.

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.

Detection Limits shown are PQL

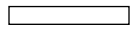
TABLE 3-5
SEDIMENT SAMPLE ANALYTICAL RESULTS - COMPARED TO LOWEST AND SEVERE EFFECT
LEVELS
PFOHL BROTHERS LANDFILL SITE
MAY 2007

Location ID				SW-06	SW-07	SW-08
Sample ID				SED-06	SED-07	SED-08
Matrix				Sediment	Sediment	Sediment
Depth Interval (ft)				-	-	-
Date Sampled				05/21/07	05/21/07	05/21/07
Parameter	Units	(1)	(2)			
Metals						
Thallium	MG/KG	-	-	10.3 U	8.6 U	12.4 U
Vanadium	MG/KG	-	-	20.5	9.4	12.8
Zinc	MG/KG	120	270	124	80.5	198

(1)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Lowest Effect Level, January 25, 1999.

(2)- NYSDEC Technical Guidance for Screening Contaminated Sediments, Severe Effect Level, January 25, 1999.

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.

Detection Limits shown are PQL

TABLE 3-6

PROPOSED 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

PARAMETERS

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

TABLE 3-6 (continued)

PROPOSED 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)

<i>Metals</i>	Antimony
	Arsenic
	Barium
	Cadmium
	Chromium
	Copper
	Iron
	Lead
	Magnesium
	Manganese
	Mercury
	Nickel
	Silver
	Sodium
	Zinc

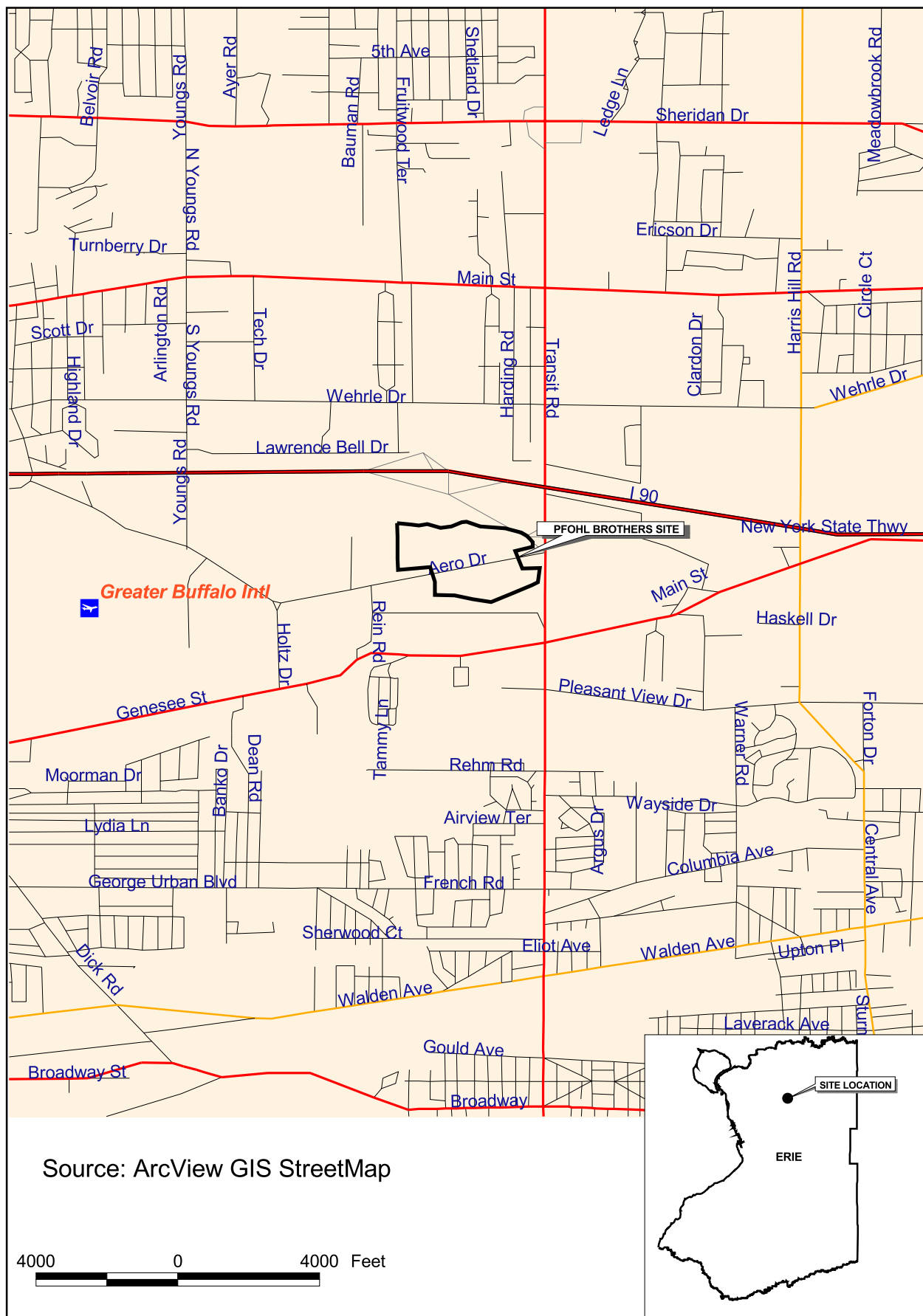
TABLE 3-7
SEDIMENT CRITERIA IN COMPARISON WITH DETECTION LIMITS

Compounds	Detection Limit Range	SW-01		SW-02		SW-03		SW-04		SW-06		SW-07		SW-08	
		Benthic	Wildlife	Benthic	Wildlife	Benthic	Wildlife	Benthic	Wildlife	Benthic	Wildlife	Benthic	Wildlife	Benthic	Wildlife
Volatile Organic Compounds															
Benzene	7 - 14	1,610	-	577	-	860		1506	-	904	-	864	-	2254	-
Chlorobenzene	7 - 14	201	-	72.1	-	107		188	-	113	-	33	-	282	-
Ethylbenzene	7 - 14	1,380	-	494	-	737		1291	-	775	-	226	-	1932	-
Toluene	7 - 14	2,818	-	1,009	-	1,504		2,636	-	1,583	-	462	-	3,945	-
Xylene (total)	21 - 41	5,290	-	1,895	-	2,824		4,950	-	2,972	-	867	-	7,406	-
Semivolatile Organic Compounds															
1,2,4-Trichlorobenzene	2,300 - 8,800	5,233	-	1,875	-	2,794	-	4,896	-	2,939	-	857	-	7,326	-
1,2-Dichlorobenzene	2,300 - 8,800	690	-	247	-	368	-	646	-	388	-	113	-	966	-
1,3-Dichlorobenzene	2,300 - 8,800	690	-	247	-	368	-	646	-	388	-	113	-	966	-
1,4-Dichlorobenzene	2,300 - 8,800	690	-	247	-	368	-	646	-	388	-	113	-	966	-
2-Methylnaphthalene	1,200 - 4,500	1,955	-	700	-	1,044	-	1,829	-	1,098	-	320	-	2,737	-
Acenaphthene	1,200 - 4,500	8,050	-	2,884	-	4,298	-	7,532	-	4,522	-	1,319	-	11,270	-
Anthracene	1,200 - 4,500	6,153	-	2,204	-	3,285	-	5,757	-	3,456	-	1,008	-	8,614	-
Benzo(a)anthracene	1,200 - 4,500	690	-	247	-	368	-	646	-	388	-	113	-	966	-
Bis(2-Ethylhexyl)phthalate	470 - 4,500	11,471	-	4,110	-	6,125	-	10,733	-	6,444	-	1,879	-	16,060	-
Fluoranthene	250 - 4,500	58,650	-	21,012	-	31,314	-	54,876	-	32,946	-	9,608	-	82,110	-
Fluorene	250 - 4,500	460	-	165	-	246	-	430	-	258	-	75.4	-	644	-
Hexachlorobenzene	250 - 4,500	320,275	690	114,742	247	170,999	368	299,666	646	179,911	388	52,469	113	448,385	966
Hexachlorobutadiene	250 - 4,500	316	230	113	82.4	169	123	296	215	178	129	51.8	37.7	443	322
Hexachlorocyclopentadiene	250 - 4,500	253	-	91	-	135	-	237	-	142	-	41.4	-	354	-
Naphthalene	1,200 - 4,500	1,725	-	618	-	921	-	1,614	-	969	-	283	-	2,415	-
Pentachlorophenol	490 - 8,800	2,300	-	824	-	1,228	-	2,152	-	1,292	-	377	-	3,220	-
Phenanthrene	490 - 8,800	6,900	-	2,472	-	3,684	-	6,456	-	3,876	-	1,130	-	9,660	-
Pyrene	490 - 8,800	55,258	-	19,797	-	29,503	-	51,702	-	31,040	-	9,053	-	77,361	-
Polychlorinated Biphenyls															
All Aroclors	3.3 - 600	1,110	80.5	398	28.8	593	43	1038	75.3	623	45.2	182	13.2	1,554	113

Sediment samples were not analyzed for PCBs in May 2007. Instead, PCB data from May 2006 is presented in this table.

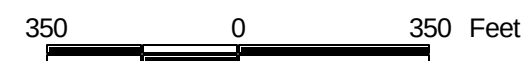
UG/KG = micrograms per kilogram
 Benthic = Benthic Chronic Protection Criteria
 Wildlife = Wildlife Bioaccumulation Criteria

FIGURES





Legend	
	Surface Water/Sediment Sample Location



PFOHL BROTHERS LANDFILL SURFACE WATER/SEDIMENT SAMPLING LOCATIONS	
	FIGURE 3-2

APPENDIX A

EXAMPLE DAILY INSPECTION SHEETS

Pfohl Brothers Landfill Site

Daily Logsheets

Town of Cheektowaga

to 3-2-07
Time 1:10

Weather conditions CLOUDY
44°
Read by: B. PUGH

	Level of Water from bottom (ft.)	Flow gallons / minute	Flow Totals gallons	Pump Run Time Hrs.
WW-3	4.8	35.3	729,982	466
WW-2	4.5	0	23063	13
WW-1	4.1	0	843320	400
WW-6	5.9	0	2,908,302	992
WW-4	5.8	0	4,015,230	371
WW-5	3.4	0	2,129,052	901

Flow Totalizer at Meter chamber

10,113,136

Heat Trace

Outside temp T = 44
Current A = 0

Set point SP = 40

ge Suppressor events

2494

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

PUMP NO. 1 REINSTALLED WITH NEW HOSE
(RED MEDIUM DUTY) - NEGATIVE FLOW
FROM STONES IN CHECK VALVE WHEN PUMP 3
RUNS - WILL NEED TO CLEAN CHECK VALVE
WW1 NEXT VISIT

Pfohl Brothers Landfill Site

Daily Logsheets

Town of Cheektowaga

Date 2/2/07
Time 1:55 PM

Weather conditions OVERCAST 30°
Read by: BILL PUGH

	Level of Water from bottom (ft.)	Flow gallons / minute	Flow Totals gallons	Pump Run Time Hrs.
WW-3	5.5	0	565,115	388
WW-2	4.5	0	22,444	12
WW-1	4.0	0	844,145	400
WW-6	5.0	0	2,513,226	874
WW-4	7.0	0	3,488,740	0
WW-5	6.6	46.7	1,974,147	833

Flow Totalizer at Meter chamber

8,949,955

Heat Trace

Outside temp T = 33
Current A = 2.4

Set point SP = 40

Large Suppressor events

4

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

WW4 - INSTALLED NEW 1.5 HP. PUMP, NEW FLEX HOSE
AND RESET PUMP RUN METER TO '0'. 22' HOSE

WW3 - CLEARED STONES FROM PUMP IMPELLER
AND FROM CHECK VALVE, REPLACED HOSE 13'

WW1 STILL ON DECK AWAITING
REPLACEMENT

APPENDIX B

MONTHLY FLOW SUMMARIES JULY 2006 – DECEMBER 2006

The
TOWN OF
CHEEKTOWAGA



Jon W. Nichy
Superintendent

Main Pump Station
171 Central Blvd.
Cheektowaga, NY 14225
Phone: 716-896-1777
Fax: 716-896-6437

July 11, 2007

Mr. William R. Pugh, P.E.
Town Engineer
Town of Cheektowaga

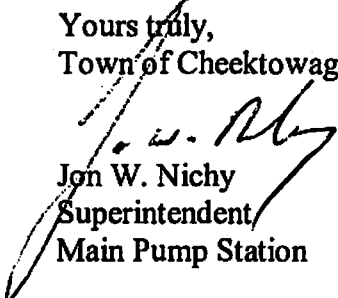
Re: Pfohl Bros. Flow Data

Dear Mr. Pugh,

Enclosed for your review, please find a copy of the **June 2007 Direct Discharge Flow Data Report**, prepared by Jon W. Nichy. The data is not a true representation of pumping activity due to system processor failure (6/2/07). A new process controller is currently being installed. When completed data logging will proceed as normal.

Should you have any other questions or comments regarding this submittal, please contact this office @ 896-1777.

Yours truly,
Town of Cheektowaga


Jon W. Nichy
Superintendent,
Main Pump Station

RECEIVED

JUL 12 2007

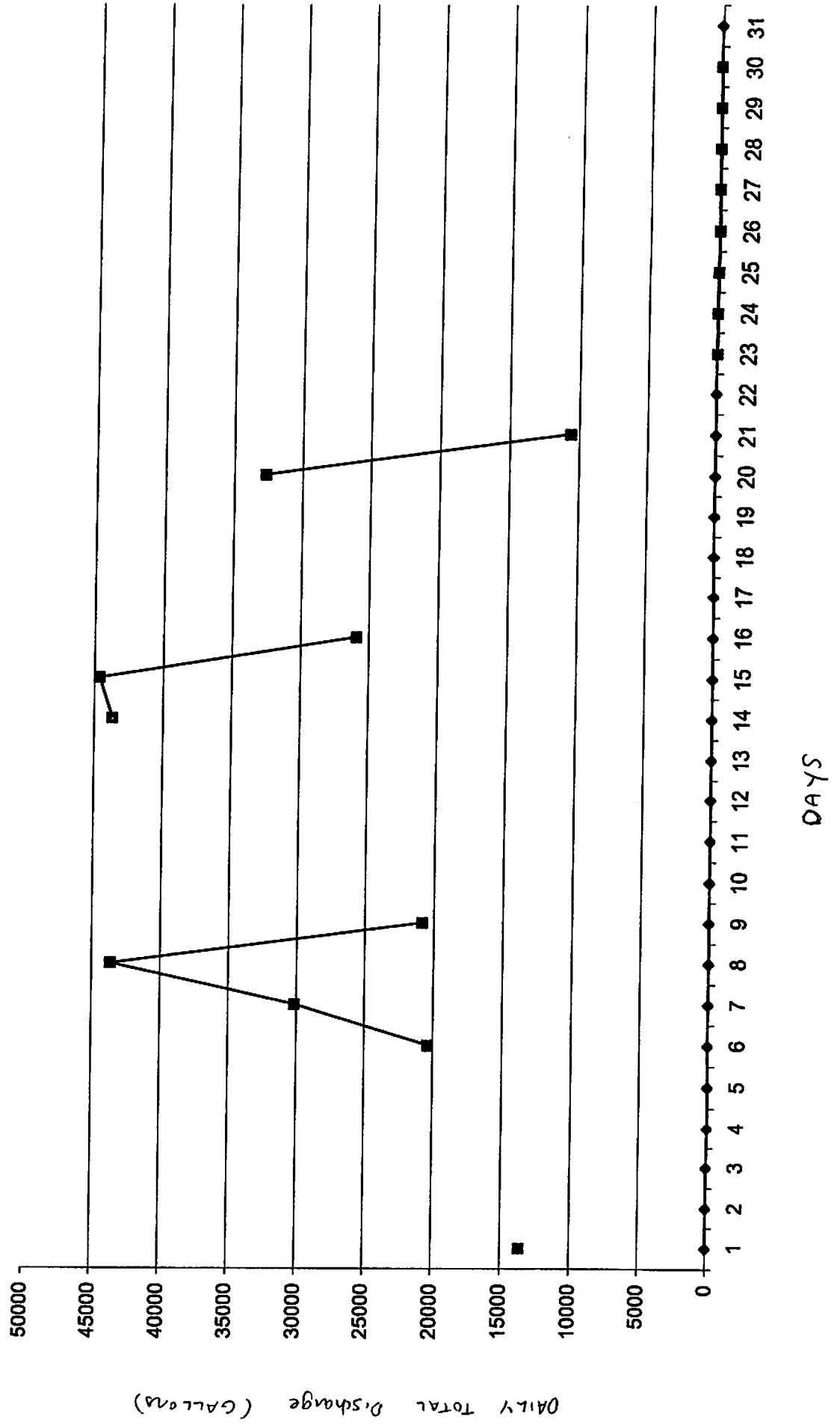
ENGINEERING
DEPT.

Direct Discharge Flow Data

5/31/2007		13843010	4,100	10,386,311	
June-07	Time; 11:58pm unless otherwise stated	Totalizer Reading (Gallons)	Daily Total Discharge (Gallons)		Notes
1		13856620	13,612	10,399,923	
2				10,399,923	
3				10,399,923	
4				10,399,923	
5				10,399,923	
6		14078980	20,346	10,420,269	
7		14109110	30,127	10,450,396	
8		14152710	43,597	10,493,993	
9		1413550	20,843	10,514,836	
10				10,514,836	
11				10,514,836	
12				10,514,836	
13				10,514,836	
14		14299010	43,663	10,558,499	
15		14343610	44,604	10,603,103	
16		14369490	25,885	10,628,988	
17				10,628,988	
18				10,628,988	
19				10,628,988	
20		14480660	32,637	10,661,625	
21		14491270	10,611	10,672,236	
22				10,672,236	
23		1491270	0	10,672,236	
24			0	10,672,236	
25			0	10,672,236	
26			0	10,672,236	
27		14491270	0	10,672,236	
28		14491270	0	10,672,236	
29		14491270	0	10,672,236	
30		14491270	0	10,672,236	
31					
		648,260	285,925	285,925	

7-12-07 * ARRANGEMENTS BEING MADE
to REPLACE THE SITE P.C. WHICH IS FAILING.

June
2007



The
TOWN OF
CHEEKTOWAGA



Jon W. Nichy
Superintendent

Main Pump Station
171 Central Blvd.
Cheektowaga, NY 14225
Phone: 716-896-1777
Fax: 716-896-6437

June 6, 2007

Mr. William R. Pugh, P.E.
Town Engineer
Town of Cheektowaga

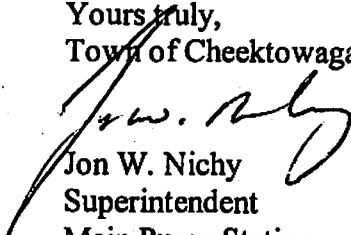
Re: Pfohl Bros. Flow Data

Dear Mr. Pugh,

Enclosed for your review, please find a copy of the May 2007 Direct Discharge Flow Data Report, prepared by Jon W. Nichy.

Should you have any other questions or comments regarding this submittal, please contact this office @ 896-1777.

Yours truly,
Town of Cheektowaga



Jon W. Nichy
Superintendent
Main Pump Station

RECEIVED

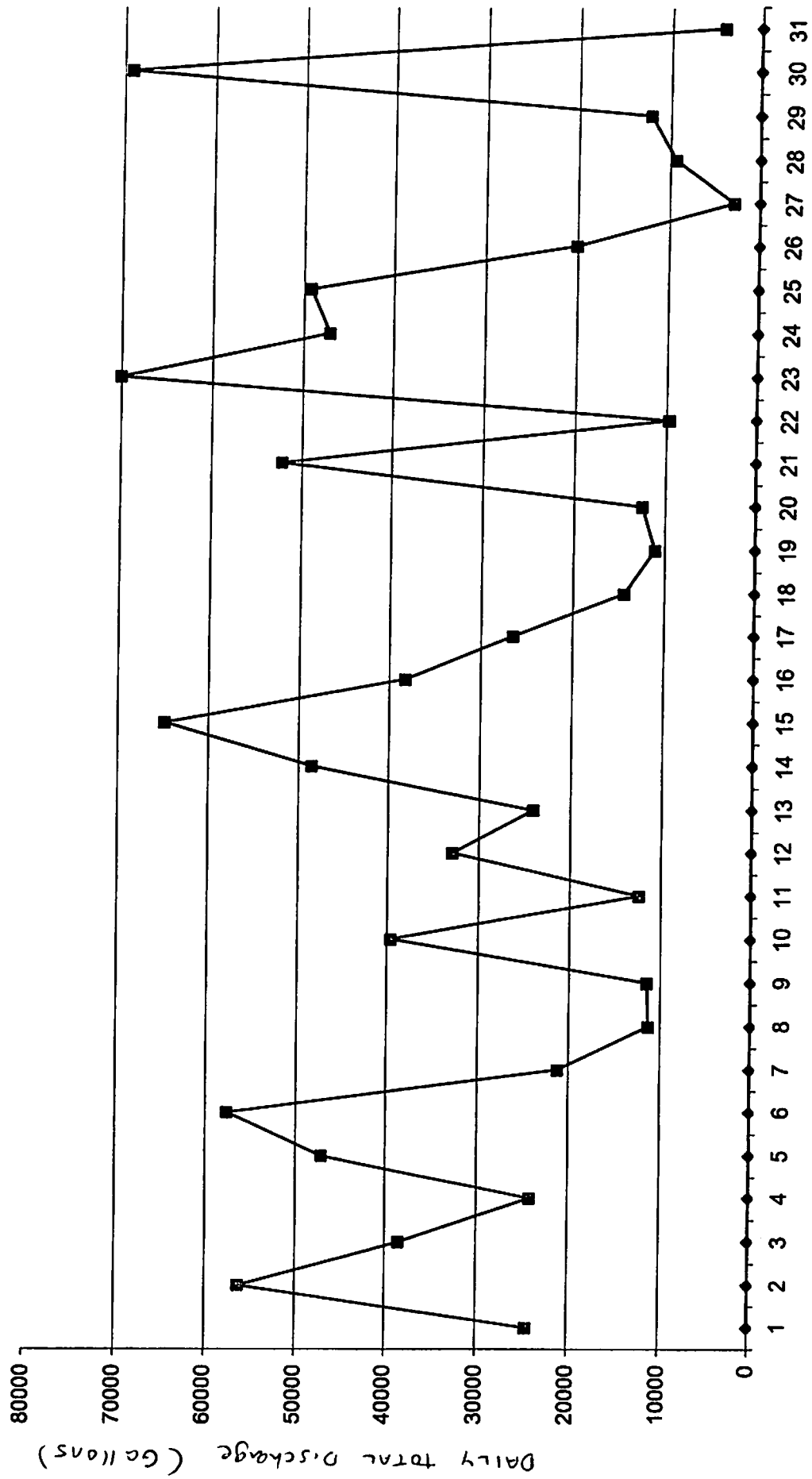
JUN - 7 2007

ENGINEERING
DEPT.

Direct Discharge Flow Data

4/30/2007		12880450	41,999	9,423,755	
May-07	Time; 11:58pm unless otherwise stated	Totalizer Reading (Gallons)	Daily Total Discharge (Gallons)		Notes
1		12904940	24,490	9,448,245	
2		12961240	56,294	9,504,539	
3		12999700	38,459	9,542,998	
4		13023870	24,174	9,567,172	
5		13070960	47,086	9,614,258	
6		13128530	57,577	9,671,835	
7		13149740	21,203	9,693,038	
8		13161020	11,289	9,704,327	
9		13172470	11,447	9,715,774	
10		13212010	39,543	9,755,317	
11		13224410	12,397	9,767,714	
12		13257270	32,859	9,800,573	
13		13281340	24,071	9,824,644	
14		13329850	48,512	9,873,156	
15		13394660	64,806	9,937,962	
16		13432880	38,225	9,976,187	
17		13459360	26,471	10,002,658	
18		13473770	14,415	10,017,073	
19		13484840	11,066	10,028,139	
20		13497360	12,523	10,040,662	
21		13549550	52,193	10,092,855	
22		13559240	9,692	10,102,547	
23		13629200	69,952	10,172,499	
24		13676260	47,065	10,219,564	
25		13725430	49,172	10,268,736	
26		13745490	20,053	10,288,789	
27		13748360	2,869	10,291,658	
28		13757720	9,368	10,301,026	
29		13769820	12,099	10,313,125	
30		13838910	69,086	10,382,211	
31		13843010	4,100	10,386,311	
		962,560	962,556	962,556	

DAYS



The
TOWN OF
CHEEKTOWAGA



Jon W. Nichy
Superintendent

Main Pump Station
171 Central Blvd.
Cheektowaga, NY 14225
Phone: 716-896-1777
Fax: 716-896-6437

May 8, 2007

Mr. William R. Pugh, P.E.
Town Engineer
Town of Cheektowaga

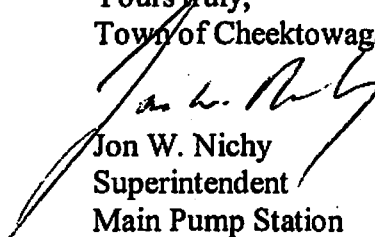
Re: Pfohl Bros. Flow Data

Dear Mr. Pugh,

Enclosed for your review, please find a copy of the April 2007 Direct Discharge Flow Data Report, prepared by Jon W. Nichy.

Should you have any other questions or comments regarding this submittal, please contact this office @ 896-1777.

Yours truly,
Town of Cheektowaga

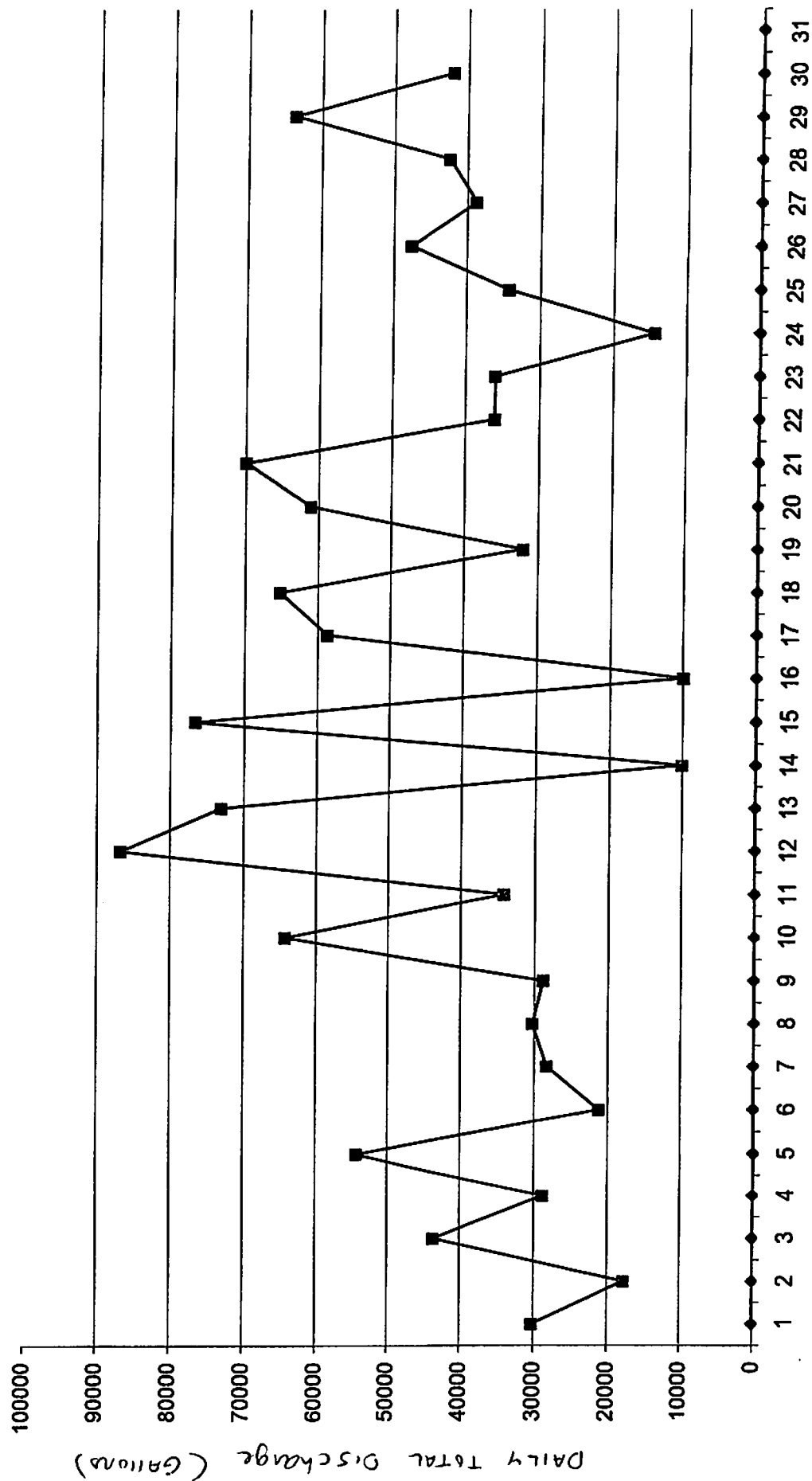

Jon W. Nichy
Superintendent
Main Pump Station

RECEIVED

MAY - 9 2007

ENGINEERING
DEPT.

April
2007



0445

Direct Discharge Flow Data

3/31/2007		11601050	74,852	8,144,360	
April-07	Time; 11:58pm unless otherwise stated	Totalizer Reading (Gallons)	Daily Total Discharge (Gallons)		Notes
1		11631250	30,194	8,174,554	
2		11648990	17,741	8,192,295	
3		11692580	43,595	8,235,890	
4		11721410	28,829	8,264,719	
5		11775700	54,288	8,319,007	
6		11796860	21,164	8,340,171	
7		11825190	28,323	8,368,494	
8		11855390	30,201	8,398,695	
9		11884180	28,790	8,427,485	
10		11948370	64,193	8,491,678	
11		11982550	34,178	8,525,856	
12		12069210	86,666	8,612,522	
13		12142270	73,054	8,685,576	
14		12152350	10,074	8,695,650	
15		12228970	76,625	8,772,275	
16		12238910	9,940	8,782,215	
17		12297550	58,641	8,840,856	
18		12362750	65,199	8,906,055	
19		12394740	31,986	8,938,041	
20		1245580	61,062	8,999,103	
21		12525740	69,942	9,069,045	
22		12561700	35,956	9,105,001	
23		12597710	36,011	9,141,012	
24		12612070	14,357	9,155,369	
25		12646260	34,191	9,189,560	
26		12693690	47,437	9,236,997	
27		12732440	38,743	9,275,740	
28		12774850	42,408	9,318,148	
29		12838450	63,608	9,381,756	
30		12880450	41,999	9,423,755	
31					
		1,279,400	1,279,395	1,279,395	

The
TOWN OF
CHEEKTOWAGA



Jon W. Nichy
Superintendent

Main Pump Station
171 Central Blvd.
Cheektowaga, NY 14225
Phone: 716-896-1777
Fax: 716-896-6437

April 11, 2007

Mr. William R. Pugh, P.E.
Town Engineer
Town of Cheektowaga

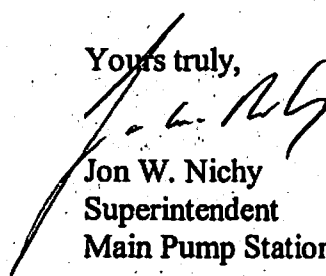
Re: Pfohl Bros. Flow Data

Dear Mr. Pugh,

Enclosed for your review, please find a copy of the **March 2007 Direct Discharge Flow Data Report**, prepared by Jon W. Nichy.

Should you have any other questions or comments regarding this submittal, please contact this office @ 896-1777.

Yours truly,


Jon W. Nichy
Superintendent
Main Pump Station

RECEIVED

APR 11 2007

ENGINEERING
DEPT.

Direct Discharge Flow Data

2/28/2007

10066730

40,699

6,610,034

Time;
11:58pm
unless
otherwise
stated

March-07

**Totalizer Reading
(Gallons)**

**Daily Total Discharge
(Gallons)**

**Total Direct Discharge
(Gallons)**

Notes

1

10108660

41,936

6,651,970

2

10115540

6,876

6,658,846

3

10205660

90,118

6,748,964

4

10260550

54,897

6,803,861

5

10260550

0

6,803,861

6

10296830

36,273

6,840,134

7

10372310

75,481

6,915,615

8

10445670

73,359

6,988,974

9

10482780

37,113

7,026,087

10

10524260

41,482

7,067,569

11

10567380

43,117

7,110,686

12

10613940

46,566

7,157,252

13

10640000

26,051

7,183,303

14

10694680

54,684

7,237,987

15

10760770

66,089

7,304,076

16

10809170

48,400

7,352,476

17

10877510

68,341

7,420,817

18

10918420

40,908

7,461,725

19

10927810

9,391

7,471,116

20

11009510

81,704

7,552,820

21

11060330

50,821

7,603,641

22

11089960

29,629

7,633,270

23

11178470

88,508

7,721,778

24

11236660

58,192

7,779,970

25

11299850

63,189

7,843,159

26

11358650

58,795

7,901,954

27

11414580

55,931

7,957,885

28

11444650

30,069

7,987,954

29

11479710

35,063

8,023,017

30

11526200

46,491

8,069,508

31

11601050

74,852

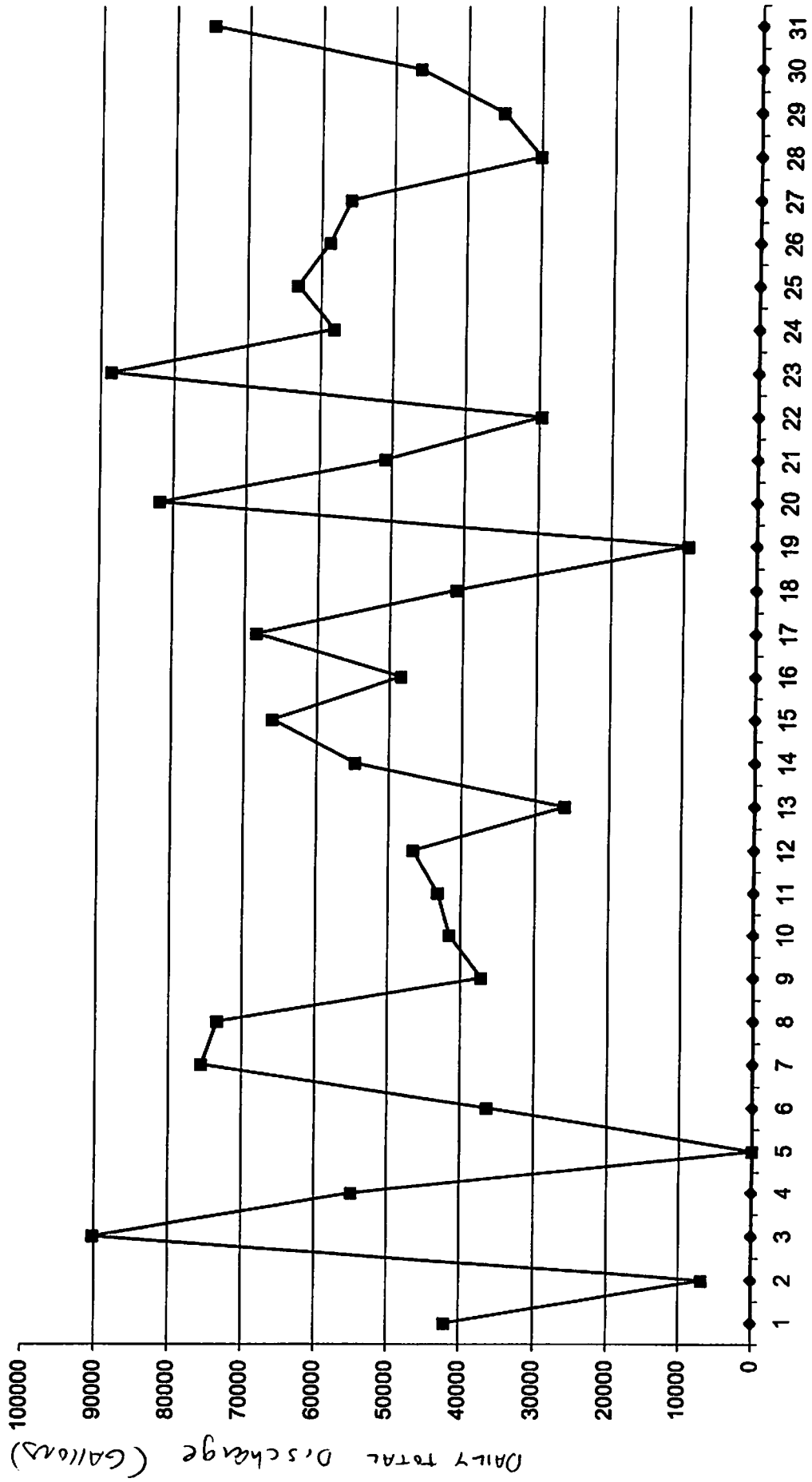
8,144,360

1,534,320

1,534,326

1,534,326

March
2007



DAYS

The
TOWN OF
CHEEKTOWAGA



Jon W. Nichy
Superintendent

Main Pump Station
171 Central Blvd.
Cheektowaga, NY 14225
Phone: 716-896-1777
Fax: 716-896-6437

March 6, 2007

Mr. William R. Pugh, P.E.
Town Engineer
Town of Cheektowaga

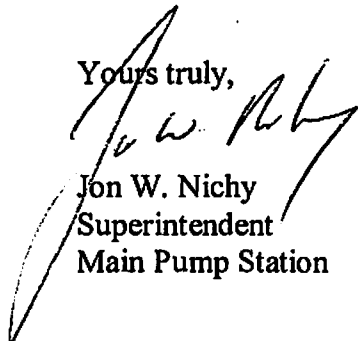
Re: Pfohl Bros. Flow Data

Dear Mr. Pugh,

Enclosed for your review, please find a copy of the **February 2007 Direct Discharge Flow Data Report**, prepared by Jon W. Nichy.

Should you have any other questions or comments regarding this submittal, please contact this office @ 896-1777.

Yours truly,


Jon W. Nichy
Superintendent
Main Pump Station

RECEIVED

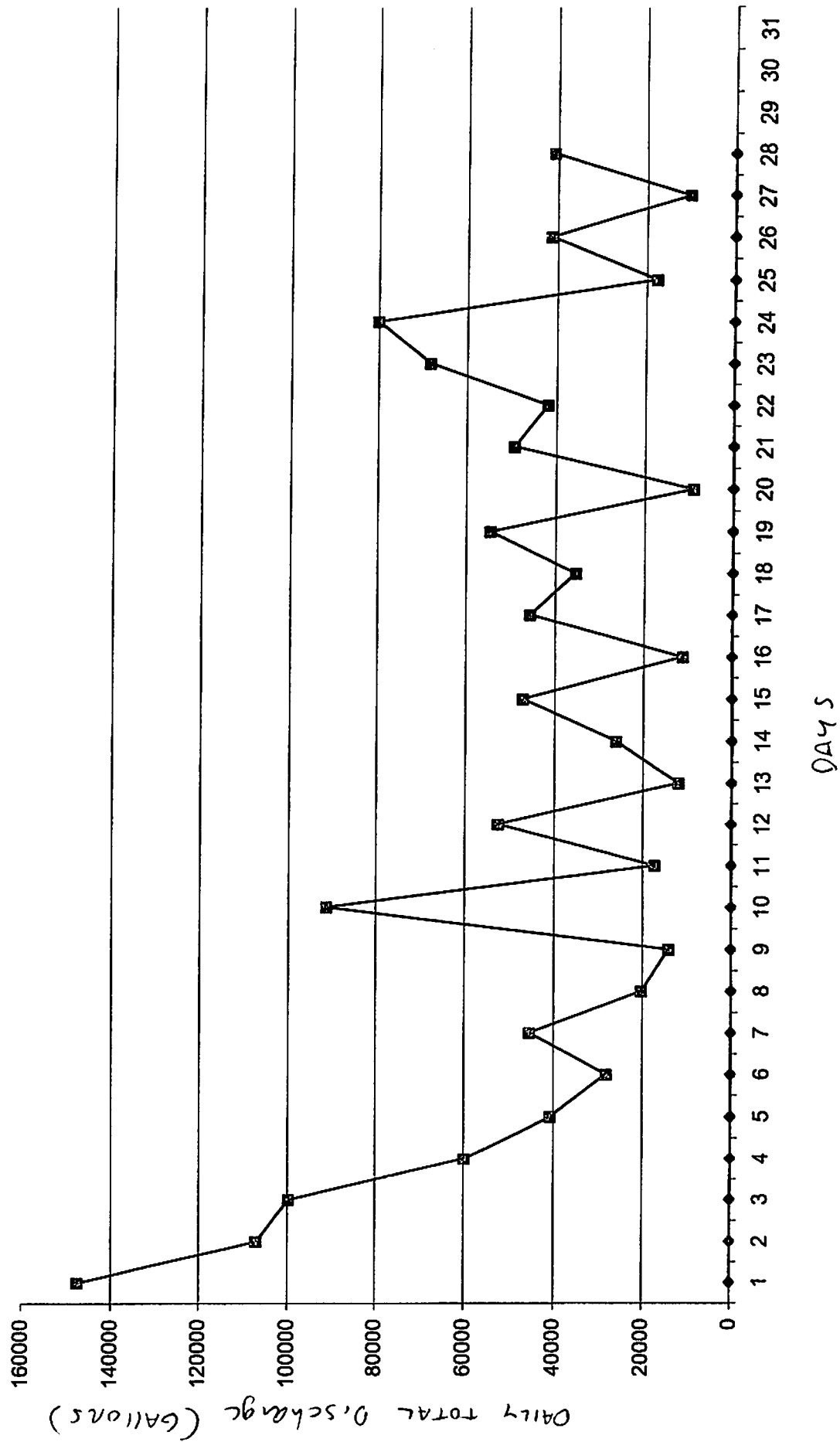
MAR - 7 2007

ENGINEERING
DEPT.

Direct Discharge Flow Data

1/31/2006		8752975	123,995	5,296,283	
February-07	Time; 11:58pm unless otherwise stated	Totalizer Reading (Gallons)	Daily Total Discharge (Gallons)	Total Direct Discharge (Gallons)	Notes
1		8900547	147,572	5,443,855	
2		9007618	107,071	5,550,926	
3		9107359	99,741	5,650,667	
4		9167139	59,780	5,710,447	
5		9207772	40,633	5,751,080	
6		9235848	28,076	5,779,156	
7		9281178	45,330	5,824,486	
8		9301400	20,222	5,844,708	
9		9315457	14,057	5,858,765	
10		9406594	91,137	5,949,902	
11		9423912	17,318	5,967,220	
12		9476531	52,619	6,019,839	
13		9488508	11,977	6,031,816	
14		9514554	26,046	6,057,862	
15		9561697	47,143	6,105,005	
16		9572851	11,154	6,116,159	
17		9618392	45,541	6,161,700	
18		9653851	35,459	6,197,159	
19		9708450	54,599	6,251,758	
20		9717464	9,014	6,260,772	
21		9766749	49,285	6,310,057	
22		9808632	41,883	6,351,940	
23		9876841	68,209	6,420,149	
24		9956842	80,001	6,500,150	
25		9974489	17,647	6,517,797	
26		10015760	41,268	6,559,065	
27		10026030	10,270	6,569,335	
28		10066730	40,699	6,610,034	
		1,313,755	1,313,751	1,313,751	

February
2007



The
TOWN OF
CHEEKTOWAGA



Jon W. Nichy
Superintendent

Main Pump Station
171 Central Blvd.
Cheektowaga, NY 14225
Phone: 716-896-1777
Fax: 716-896-6437

February 6, 2007

Mr. William R. Pugh, P.E.
Town Engineer
Town of Cheektowaga

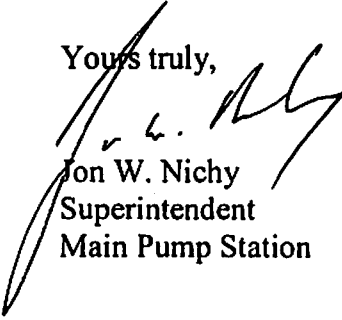
Re: Pfohl Bros. Flow Data

Dear Mr. Pugh,

Enclosed for your review, please find a copy of the **January 2007** Direct Discharge Flow Data Report, prepared by Jon W. Nichy.

Should you have any other questions or comments regarding this submittal, please contact this office @ 896-1777.

Yours truly,


Jon W. Nichy
Superintendent
Main Pump Station

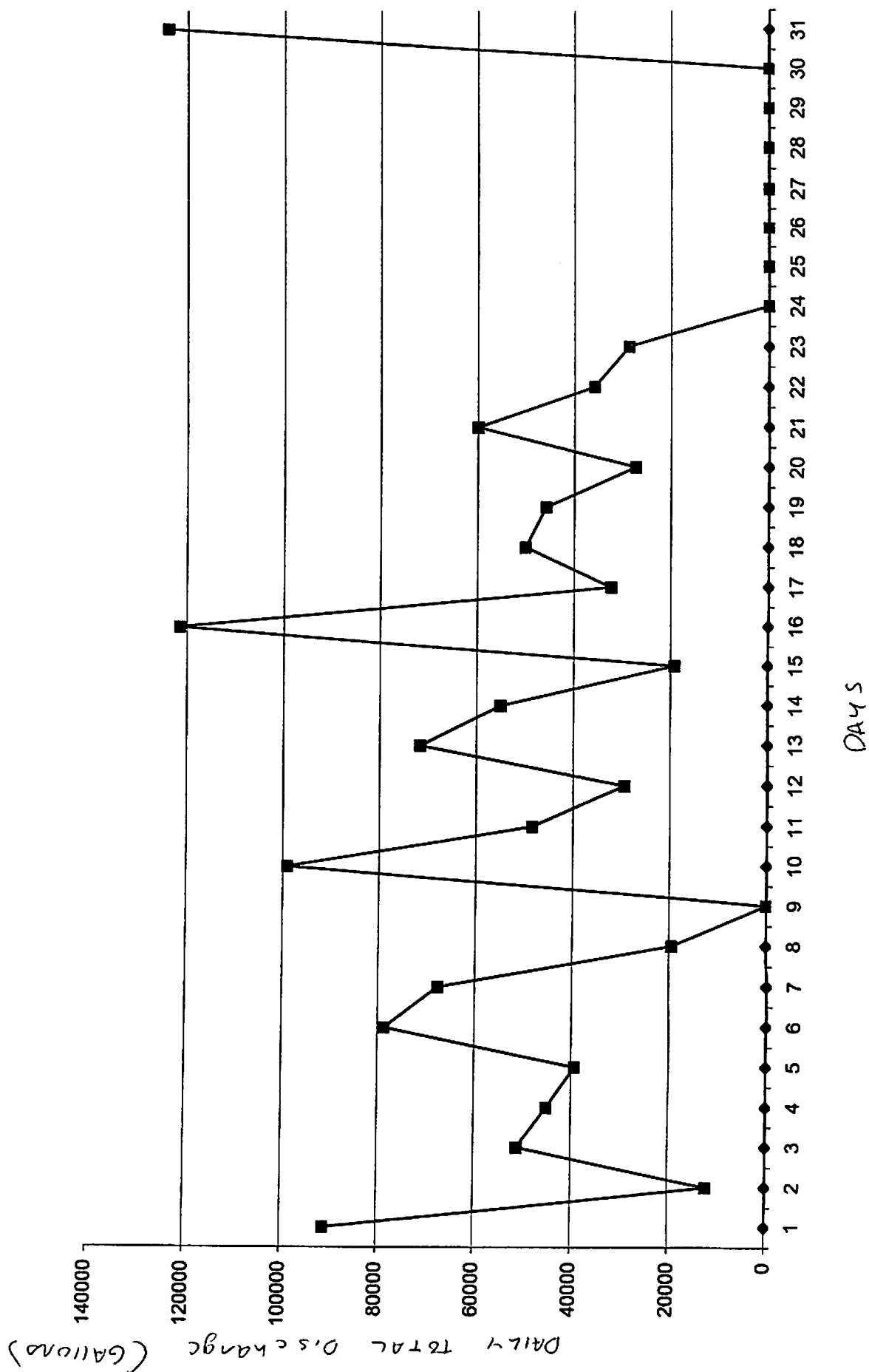
Direct Discharge Flow Data

12/31/2006

		7501126	46,922	4,044,429	
January-07	Time; 11:58pm unless otherwise stated	Totalizer Reading (Gallons)	Daily Total Discharge (Gallons)	Total Direct Discharge (Gallons)	Notes
1		7592163	91,037	4,135,466	
2		7604418	12,255	4,147,721	
3		765534	51,116	4,198,837	
4		7700550	45,017	4,243,854	
5		7739820	39,270	4,283,124	
6		7818446	78,627	4,361,751	
7		7885990	67,544	4,429,295	
8		7905399	19,409	4,448,704	
9		7905399	0	4,448,704	
10		8004434	99,035	4,547,739	
11		8052890	48,457	4,596,196	
12		8082254	29,364	4,625,560	
13		8153803	71,550	4,697,110	
14		8208841	55,038	4,752,148	
15		8227953	19,112	4,771,260	
16		8349356	121,403	4,892,663	
17		8381656	32,300	4,924,963	
18		8431664	50,009	4,974,972	
19		8477422	45,758	5,020,730	
20		8504647	27,225	5,047,955	
21		8564539	59,892	5,107,847	
22		8600328	35,789	5,143,636	
23		8628980	28,652	5,172,288	
24		8628980	0	5,172,288	
25		8628980	0	5,172,288	
26		8628980	0	5,172,288	
27		8628980	0	5,172,288	
28		8628980	0	5,172,288	
29		8628980	0	5,172,288	
30		8628980	0	5,172,288	
31		8752975	123,995	5,296,283	
		1,251,849	1,251,854	1,251,854	

Inactivity during the period 1/24/07 thru 1/30/07 due to blown main power fuse.

January
2007



APPENDIX C

HYDRAULIC MONITORING TABLES

TABLE 1
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MARCH 2007

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	3/28/2007 0000	2.10	691.70	0.00	691.70	
GW-04S MNW	1072284.456	1114685.127	690.76	NA	692.72	S	1	3/28/2007 0000	4.06	688.66	0.00	688.66	
GW-07S MNW	1071238.157	1117666.265	697.47	NA	699.51	S	1	3/28/2007 0000	4.22	695.29	0.00	695.29	
GW-08SR MNW	1073714.172	1116786.343	695.08	NA	697.50	S	1	3/28/2007 0000	5.13	692.37	0.00	692.37	
GW-28S MNW	1073129.479	1117648.927	698.60	NA	700.95	S	1	3/28/2007 0000	5.19	695.76	0.00	695.76	
GW-29S MNW	1072552.638	1117761.993	697.50	NA	699.63	S	1	3/28/2007 0000	4.89	694.74	0.00	694.74	
GW-30S MNW	1072096.109	1117743.563	693.67	NA	696.58	S	1	3/28/2007 0000	6.49	690.09	0.00	690.09	
GW-31S MNW	1071786.280	1117191.441	695.84	NA	698.62	S	1	3/28/2007 0000	2.84	695.78	0.00	695.78	
GW-32S MNW	1071613.793	1116364.200	696.19	NA	698.37	S	1	3/28/2007 0000	2.30	696.07	0.00	696.07	
GW-33S MNW	1072165.625	1115561.866	695.94	NA	698.24	S	1	3/28/2007 0000	3.51	694.73	0.00	694.73	
GW-34S MNW	1072979.205	1114730.200	692.51	NA	694.77	S	1	3/28/2007 0000	2.88	691.89	0.00	691.89	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 1
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MARCH 2007

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	3/28/2007 0000	3.08	694.31	0.00	694.31	
MH-01 MH	1073806.665	1114810.501	698.62	NA	698.62	NA	1	3/28/2007 0000	11.93	686.69	0.00	686.69	
MH-03 MH	1073736.789	1115259.334	699.40	NA	699.40	NA	1	3/28/2007 0000	11.24	688.16	0.00	688.16	
MH-07 MH	1073838.229	1116243.757	696.82	NA	696.82	NA	1	3/28/2007 0000	9.41	687.41	0.00	687.41	
MH-10 MH	1073540.729	1117381.524	703.01	NA	703.01	NA	1	3/28/2007 0000	14.41	688.60	0.00	688.60	
MH-15 MH	1072531.567	1117761.125	699.02	NA	699.02	NA	1	3/28/2007 0000	15.10	683.92	0.00	683.92	
MH-16 MH	1072133.714	1117748.238	698.57	NA	698.57	NA	1	3/28/2007 0000	16.28	682.29	0.00	682.29	
MH-17 MH	1071813.137	1117180.019	702.16	NA	702.16	NA	1	3/28/2007 0000	18.38	683.78	0.00	683.78	
MH-20 MH	1071756.395	1115997.024	706.20	NA	706.20	NA	1	3/28/2007 0000	19.76	686.44	0.00	686.44	
MH-22 MH	1072158.023	1115589.309	698.05	NA	698.05	NA	1	3/28/2007 0000	NM	-	NM	-	Dry
MH-25 MH	1072483.928	1114820.313	698.17	NA	698.17	NA	1	3/28/2007 0000	12.19	685.98	0.00	685.98	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 1
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MARCH 2007

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	3/28/2007 0000	-1.90	691.90	0.00	691.90	
SG-02	1073796.856	1115255.756						3/28/2007 0000	-3.65	-	0.00	-	
WW-01 MH	1073676.903	1115710.476		NA	684.02		1	3/28/2007 0000	-4.0	688.02	0.00	688.02	
WW-02 MH	1073684.724	1116792.311		NA	684.18		1	3/28/2007 0000	-4.6	688.78	0.00	688.78	
WW-03 MH	1073140.339	1117618.499		NA	683.80		1	3/28/2007 0000	-5.2	689.00	0.00	689.00	
WW-04 MH	1072057.563	1117610.508		NA	676.62		1	3/28/2007 0000	-4.9	681.52	0.00	681.52	
WW-05 MH	1071661.368	1116370.876		NA	676.14		1	3/28/2007 0000	-4.3	680.44	0.00	680.44	
WW-06 MH	1072988.420	1114811.518		NA	681.89		1	3/28/2007 0000	-4.1	685.99	0.00	685.99	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 2
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MAY 2007

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	5/21/2007 0000	3.39	690.41	0.00	690.41	
GW-04S MNW	1072284.456	1114685.127	690.76	NA	692.72	S	1	5/21/2007 0000	4.94	687.78	0.00	687.78	
GW-07S MNW	1071238.157	1117666.265	697.47	NA	699.51	S	1	5/21/2007 0000	5.58	693.93	0.00	693.93	
GW-08SR MNW	1073714.172	1116786.343	695.08	NA	697.50	S	1	5/21/2007 0000	5.38	692.12	0.00	692.12	
GW-28S MNW	1073129.479	1117648.927	698.60	NA	700.95	S	1	5/21/2007 0000	7.51	693.44	0.00	693.44	
GW-29S MNW	1072552.638	1117761.993	697.50	NA	699.63	S	1	5/21/2007 0000	7.00	692.63	0.00	692.63	
GW-30S MNW	1072096.109	1117743.563	693.67	NA	696.58	S	1	5/21/2007 0000	7.36	689.22	0.00	689.22	
GW-31S MNW	1071786.280	1117191.441	695.84	NA	698.62	S	1	5/21/2007 0000	4.72	693.90	0.00	693.90	
GW-32S MNW	1071613.793	1116364.200	696.19	NA	698.37	S	1	5/21/2007 0000	4.86	693.51	0.00	693.51	
GW-33S MNW	1072165.625	1115561.866	695.94	NA	698.24	S	1	5/21/2007 0000	6.02	692.22	0.00	692.22	
GW-34S MNW	1072979.205	1114730.200	692.51	NA	694.77	S	1	5/21/2007 0000	3.52	691.25	0.00	691.25	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 2
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MAY 2007

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	5/21/2007 0000	4.33	693.06	0.00	693.06	
MH-01 MH	1073806.665	1114810.501	698.62	NA	698.62	NA	1	5/21/2007 0000	11.81	686.81	0.00	686.81	
MH-03 MH	1073736.789	1115259.334	699.40	NA	699.40	NA	1	5/21/2007 0000	11.21	688.19	0.00	688.19	
MH-07 MH	1073838.229	1116243.757	696.82	NA	696.82	NA	1	5/21/2007 0000	9.43	687.39	0.00	687.39	
MH-10 MH	1073540.729	1117381.524	703.01	NA	703.01	NA	1	5/21/2007 0000	14.45	688.56	0.00	688.56	
MH-15 MH	1072531.567	1117761.125	699.02	NA	699.02	NA	1	5/21/2007 0000	14.87	684.15	0.00	684.15	
MH-16 MH	1072133.714	1117748.238	698.57	NA	698.57	NA	1	5/21/2007 0000	14.41	684.16	0.00	684.16	
MH-17 MH	1071813.137	1117180.019	702.16	NA	702.16	NA	1	5/21/2007 0000	18.73	683.43	0.00	683.43	
MH-20 MH	1071756.395	1115997.024	706.20	NA	706.20	NA	1	5/21/2007 0000	19.76	686.44	0.00	686.44	
MH-22 MH	1072158.023	1115589.309	698.05	NA	698.05	NA	1	5/21/2007 0000	8.99	689.06	0.00	689.06	
MH-25 MH	1072483.928	1114820.313	698.17	NA	698.17	NA	1	5/21/2007 0000	11.45	686.72	0.00	686.72	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 2
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
MAY 2007

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	5/21/2007 0000	-1.35	691.35	0.00	691.35	
SG-02	1073796.856	1115255.756						5/21/2007 0000	-1.80	-	0.00	-	
WW-01 MH	1073676.903	1115710.476		NA	684.02		1	5/21/2007 0000	-4.0	688.02	0.00	688.02	
WW-02 MH	1073684.724	1116792.311		NA	684.18		1	5/21/2007 0000	-4.5	688.68	0.00	688.68	
WW-03 MH	1073140.339	1117618.499		NA	683.80		1	5/21/2007 0000	-4.8	688.60	0.00	688.60	
WW-04 MH	1072057.563	1117610.508		NA	676.62		1	5/21/2007 0000			NM		
WW-05 MH	1071661.368	1116370.876		NA	676.14		1	5/21/2007 0000	-5.3	681.44	0.00	681.44	
WW-06 MH	1072988.420	1114811.518		NA	681.89		1	5/21/2007 0000	-4.8	686.69	0.00	686.69	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 3
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
JUNE 2007

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	6/21/2007 0000	6.63	687.17	0.00	687.17	
GW-04S MNW	1072284.456	1114685.127	690.76	NA	692.72	S	1	6/21/2007 0000	6.01	686.71	0.00	686.71	
GW-07S MNW	1071238.157	1117666.265	697.47	NA	699.51	S	1	6/21/2007 0000	6.75	692.76	0.00	692.76	
GW-08SR MNW	1073714.172	1116786.343	695.08	NA	697.50	S	1	6/21/2007 0000	6.85	690.65	0.00	690.65	
GW-28S MNW	1073129.479	1117648.927	698.60	NA	700.95	S	1	6/21/2007 0000	8.47	692.48	0.00	692.48	
GW-29S MNW	1072552.638	1117761.993	697.50	NA	699.63	S	1	6/21/2007 0000	9.85	689.78	0.00	689.78	
GW-30S MNW	1072096.109	1117743.563	693.67	NA	696.58	S	1	6/21/2007 0000	8.15	688.43	0.00	688.43	
GW-31S MNW	1071786.280	1117191.441	695.84	NA	698.62	S	1	6/21/2007 0000	6.47	692.15	0.00	692.15	
GW-32S MNW	1071613.793	1116364.200	696.19	NA	698.37	S	1	6/21/2007 0000	6.87	691.50	0.00	691.50	
GW-33S MNW	1072165.625	1115561.866	695.94	NA	698.24	S	1	6/21/2007 0000	NM	-	NM	-	Dry
GW-34S MNW	1072979.205	1114730.200	692.51	NA	694.77	S	1	6/21/2007 0000	5.63	689.14	0.00	689.14	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 3
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
JUNE 2007

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	6/21/2007 0000	5.81	691.58	0.00	691.58	
MH-01 MH	1073806.665	1114810.501	698.62	NA	698.62	NA	1	6/21/2007 0000	11.93	686.69	0.00	686.69	
MH-03 MH	1073736.789	1115259.334	699.40	NA	699.40	NA	1	6/21/2007 0000	11.50	687.90	0.00	687.90	
MH-07 MH	1073838.229	1116243.757	696.82	NA	696.82	NA	1	6/21/2007 0000	9.72	687.10	0.00	687.10	
MH-10 MH	1073540.729	1117381.524	703.01	NA	703.01	NA	1	6/21/2007 0000	14.47	688.54	0.00	688.54	
MH-15 MH	1072531.567	1117761.125	699.02	NA	699.02	NA	1	6/21/2007 0000	15.08	683.94	0.00	683.94	
MH-16 MH	1072133.714	1117748.238	698.57	NA	698.57	NA	1	6/21/2007 0000	15.08	683.49	0.00	683.49	
MH-17 MH	1071813.137	1117180.019	702.16	NA	702.16	NA	1	6/21/2007 0000	18.30	683.86	0.00	683.86	
MH-20 MH	1071756.395	1115997.024	706.20	NA	706.20	NA	1	6/21/2007 0000	19.72	686.48	0.00	686.48	
MH-22 MH	1072158.023	1115589.309	698.05	NA	698.05	NA	1	6/21/2007 0000	9.03	689.02	0.00	689.02	
MH-25 MH	1072483.928	1114820.313	698.17	NA	698.17	NA	1	6/21/2007 0000	12.57	685.60	0.00	685.60	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

TABLE 3
PFOHL BROTHERS LANDFILL SITE
GROUNDWATER ELEVATIONS
JUNE 2007

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	6/21/2007 0000	-1.10	691.10	0.00	691.10	
SG-02	1073796.856	1115255.756						6/21/2007 0000	-3.40	-	0.00	-	
WW-01 MH	1073676.903	1115710.476		NA	684.02		1	6/21/2007 0000	-3.7	687.72	0.00	687.72	
WW-02 MH	1073684.724	1116792.311		NA	684.18		1	6/21/2007 0000	-2.3	686.48	0.00	686.48	
WW-03 MH	1073140.339	1117618.499		NA	683.80		1	6/21/2007 0000	-4.4	688.20	0.00	688.20	
WW-04 MH	1072057.563	1117610.508		NA	676.62		1	6/21/2007 0000	-6.2	682.82	0.00	682.82	
WW-05 MH	1071661.368	1116370.876		NA	676.14		1	6/21/2007 0000	-3.8	679.94	0.00	679.94	
WW-06 MH	1072988.420	1114811.518		NA	681.89		1	6/21/2007 0000	-4.7	686.59	0.00	686.59	

NM - No Measurement

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

Type:

MH

MNW

Manhole Monitoring Point

Monitoring Well

APPENDIX D

GROUNDWATER PURGE AND SAMPLE COLLECTION LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/24/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	3.43'	Depth to Well Bottom:	14.94'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	7.5	Estimated Purge Volume (liters):	15.1

Sample ID:	GW-1S	Sample Time:	10:00	QA/QC:	None

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/24/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	3.42'	Depth to Well Bottom:	39.64'	Well Diameter:	4"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	84.6	Estimated Purge Volume (liters):	34.1

Sample ID:	GW-1D	Sample Time:	11:05	QA/QC:	None

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/22/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	4.09'	Depth to Well Bottom:	13.26'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	5.9	Estimated Purge Volume (liters):	8.5

Sample ID:	GW-3S	Sample Time:	9:00	QA/QC:	None

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information: Horiba flow through cell turbidity function not responding properly. Water appears clear upon sampling.

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/22/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	2.02'	Depth to Well Bottom:	35.65'	Well Diameter:	4"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	83.1	Estimated Purge Volume (liters):	19.2

Sample ID:	GW-3D	Sample Time:	10:45	QA/QC:	None

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information: Turbidity meter was changed at 10:15 reading due to flow cell turbidity problems.

PURGE PARAMETERS

[illegible]

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 ($vol_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/23/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	5.12'	Depth to Well Bottom:	16.28'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	7.1	Estimated Purge Volume (liters):	9.5

Sample ID:	GW-4S	Sample Time:	15:55	QA/QC:	None

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma

Other Information: Well only makes ~90 ml/min;decided to pump dry, let recharge and grab sample.

Would have taken 60+ minutes to fill sample bottles at 90 ml/min.

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/23/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	13.06'	Depth to Well Bottom:	45.56'	Well Diameter:	4"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	81.2	Estimated Purge Volume (liters):	9.5

Sample ID:	GW-4D	Sample Time:	11:25	QA/QC:	None

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

WELL PURGING LOG

URS Corporation

SITE NAME:	Pfohl Brothers Landfill	WELL NO.:	GW-7S
PROJECT NO.:	11172700.00004		
STAFF:	Matt Kandefer, Bob Fabian		
DATE(S):	5/23/06 - 5/24/06		

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	<u>35.02</u>	WELL ID. 1"	VOL. (GAL/FT) 0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	<u>5.66</u>	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	<u>29.36</u>	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	<u>0.17</u>	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	<u>5.0</u>	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	<u>15.0</u>	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	<u>6</u>	8"	2.60

V=0.0408 x (CASING DIAMETER [INCHES])²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	0	2	4	6	8					
pH	6.70	7.20	7.30	7.40	-					
SPEC. COND. (mS/cm)	0.573	0.569	0.562	0.539	-					
DO (mg/l)	14.41	8.60	8.10	8.00						
TEMPERATURE (°C)	11.5	11.0	10.6	11.3	-					
TURBIDITY (NTU)	15	23	19	198	-					
ORP (millivolts)	134	117	-74	-78	-					
Water Level (BTOR-feet)	5.66	14.51	25.74	33.29						

COMMENTS:
Purged with dedicated stainless steel bailer. Well went dry after removing about 6 gallons. Return on 5/24/07 and sample with dedicated stainless steel bailer.
Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Depth to water was 5.05' on 5/24/07
Sample time 8:05 on 5/24/07

WELL PURGING LOG

URS Corporation

SITE NAME:	Pfohl Brothers Landfill	WELL NO.:	GW-7D
PROJECT NO.:	11172700.00004		
STAFF:	Matt Kandefer, Bob Fabian		
DATE(S):	5/23/06 - 5/24/06		

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	60.60	1"	0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	37.45	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	23.15	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)	=	15.3	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	45.8	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	14.5	8"	2.60

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

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	0	4	5	9	13					
pH	7.1	6.9	7.7	7.7	7.7					
SPEC. COND. (mS/cm)	0.894	0.712	0.766	0.714	0.710					
DO (mg/l)	8.280	5.090	5.730	4.720	4.620					
TEMPERATURE (°C)	11.8	12.4	12.9	12.9	12.9					
TURBIDITY (NTU)	11	3	39	8	16					
ORP (millivolts)	-148	-112	-158	-139	-111					
Water Level (BTOR-feet)	37.45	42.1	42.9	47.39	53.3					

COMMENTS:
Purged with a dedicated whale pump and tubing. Well went dry after removing about 14.5 gallons. Return on 5/24/07 and sample with dedicated stainless steel bailer.
Sample time 8:25 on 5/24/07
Depth to water was 56.24' on 5/24/07
Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/22/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	5.63'	Depth to Well Bottom:	13.03'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	4.7	Estimated Purge Volume (liters):	13.2

Sample ID: GW-8SR Sample Time: 12:25 QA/QC:

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/22/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	5.91'	Depth to Well Bottom:	36.58'	Well Diameter:	4"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	76.6	Estimated Purge Volume (liters):	28.4

Sample ID:	GW-8D	Sample Time:	13:50	QA/QC:	MS/MSD

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11172700.00004 Site: Pfohl Brothers Well I.D.: GW-26D

Date: 5/25/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	6.86'	Depth to Well Bottom:	40.75'	Well Diameter:	4"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	84.6	Estimated Purge Volume (liters):	30.0

Sample ID: GW-26D Sample Time: 13:05 QA/QC:

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/22/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	7.51'	Depth to Well Bottom:	15.58'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	5.1	Estimated Purge Volume (liters):	13.2

Sample ID:	GW-28S	Sample Time:	16:00	QA/QC:	-

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/24/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	7.21'	Depth to Well Bottom:	20.02'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	8.4	Estimated Purge Volume (liters):	11.3

Sample ID:	GW-29S	Sample Time:	12:40	QA/QC:	-

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O ₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
11:55	6.9	12.2	1.35	5.10	53	-123	400	7.21
12:00	6.5	11.6	1.36	3.60	73	-133	300	8.76
12:05	6.8	11.8	1.33	2.82	54	-265	220	10.02
12:10	6.9	11.7	1.33	2.74	37	-280	220	10.14
12:15	6.9	11.8	1.32	2.64	26	-285	200	10.31
12:20	6.9	11.8	1.32	2.58	13	-290	200	10.46
12:25	6.9	1.9	1.32	2.54	12	-292	200	10.52
12:30	6.9	11.9	1.32	2.53	9	-293	200	10.58
12:35	6.9	11.7	1.32	2.54	9	-291	200	10.58
12:40	6.9	11.6	1.31	2.52	8	-292	200	10.71
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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/23/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	7.46'	Depth to Well Bottom:	17.98'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	6.4	Estimated Purge Volume (liters):	29.6

Sample ID:	GW-30S	Sample Time:	14:50	QA/QC:	DUP - 052307

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
14:10	6.7	11.9	6.04	5.93	>1000	-131	600	7.46
14:15	6.6	10.2	5.61	4.71	>1000	-147	780	7.58
14:20	6.7	10.1	5.53	3.83	164	-150	780	7.60
14:25	6.7	10.3	5.51	5.81	15	-152	760	7.60
14:30	6.7	10.2	5.58	5.44	7	-153	760	7.60
14:35	6.8	10.2	5.60	5.08	4	-154	760	7.60
14:40	6.8	10.0	5.61	3.89	3	-154	760	7.60
14:45	6.8	10.0	5.64	3.84	16	-154	760	7.60
14:50	6.8	10.1	5.64	3.69	11	-155	760	7.60
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 ($vql_w = \pi r^2 h$)

WELL PURGING LOG

URS Corporation

SITE NAME:	Pfohl Brothers Landfill	WELL NO.:	GW-31S
PROJECT NO.:	11172700.00004		
STAFF:	Matt Kandefer, Bob Fabian		
DATE(S):	5/24/06 - 5/25/06		

1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	9.55	WELL ID. 1"	VOL. (GAL/FT) 0.040
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	3.14	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	6.41	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)	=	1.1	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.3	6"	1.50
7. VOLUME OF WATER ACTUALLY REMOVED (GAL.)	=	15	8"	2.60

V=0.0408 x (CASING DIAMETER [INCHES])²

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	0	4	5	9	13						
pH	7.1	6.8	7.1	6.9	6.8	6.90	7.00	7.00			
SPEC. COND. (mS/cm)	0.687	0.683	0.703	0.894	0.835	1	1	1			
DO (mg/l)	4.860	5.760	7.250	3.340	2.860	3	3	3			
TEMPERATURE (°C)	15.8	15.7	19.0	13.2	13.9	14.4	14.9	14.8			
TURBIDITY (NTU)	3	10	100	20	66	12	6	4			
ORP (millivolts)	-37	-1	-13	-43	-60	-80	-87	-88			
Water Level (BTOR-feet)	3.14	6.7	6.8	8.05	8.81	9.08	9.25	9.45			

COMMENTS:

Purged with a Geopump 2 and HDPE tubing . Well went dry after removing about 2 gallons. Return on 5/25/07 and sample with Geopump 2 and HDPE tubing.

Sample time 8:00 on 5/25/07

Depth to water was 5.21' on 5/25/07

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/25/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	4.92'	Depth to Well Bottom:	9.92'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	3.3	Estimated Purge Volume (liters):	8.5

Sample ID:	GW-32S	Sample Time:	10:10	QA/QC:	-

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/24 - 5/25/07 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	6.41'	Depth to Well Bottom:	8.22'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	1.2	Estimated Purge Volume (liters):	5.7

Sample ID:	GW-33S	Sample Time:	8:45	QA/QC:	-

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information: Well was purged dry at a low purge rate. Sample was collected the next day.

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/23/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	3.65'	Depth to Well Bottom:	10.01'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	4.0	Estimated Purge Volume (liters):	10.5

Sample ID: GW-34S Sample Time: 13:05 QA/QC:

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

[illegible]

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 ($vql_w = \pi r^2 h$)

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

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

Date: 5/25/2007 Sampling Personnel: Matt Kandefer, Bob Fabian 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:	4.64'	Depth to Well Bottom:	7.45'	Well Diameter:	2"	Screen Length:

Casing Type:	Stainless Steel	Volume in 1 Well Casing (liters):	1.8	Estimated Purge Volume (liters):	9.5

Sample ID:	GW-35S	Sample Time:	11:30	QA/QC:	-

Sample Parameters: VOCs, SVOCs, Dioxins and Furans, TAL Metals, Total Cyanide, Soluable Gamma, Insoluable Gamma
Other Information:

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O₂ (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
11:00	6.9	15.5	0.853	7.97	20	68	220	4.64
11:05	6.6	14.1	0.595	3.80	8	54	200	5.32
11:10	6.6	13.8	0.547	3.35	23	43	200	5.44
11:15	6.6	13.5	0.537	3.16	7	30	200	5.53
11:20	6.8	13.5	0.528	3.00	2	9	200	5.62
11:25	7.0	13.4	0.528	2.93	1	-2	200	5.66
11:30	7.0	13.4	0.529	2.79	1	-11	200	5.69
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 ($vql_w = \pi r^2 h$)

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: Pfohl Brothers

Project Number: 11172700.00004

Sampling Crew Members: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date of Sampling: May 22, 2007

Sample I.D. Number	Well Number	Well Volume (liters)	Volume Purged (liters)	Sample Time	Sample Description	Analysis Required	Chain-of-Custody Number
GW-3S	GW-3S	5.9	8.5	9:00	Groundwater	VOCs/SVOCs/ Metals/Dioxins & Furans/Gamma Spec.	
GW-3D	GW-3D	83.1	19.2	10:45	Groundwater		
GW-8SR	GW-8SR	4.7	13.2	12:25	Groundwater		
GW-8D	GW-8D	76.6	28.4	13:50	Groundwater		
GW-8D MS	GW-8D	76.6	28.4	13:50	Matrix Spike		
GW-8D MSD	GW-8D	76.6	28.4	13:50	Matrix Spike Duplicate		
GW-28S	GW-28S	5.1	13.2	16:00	Groundwater	VOCs	
TB-052207	---	---	---	10:30	Trip Blank		

Additional Comments: All wells were purged using low flow methods until parameter stabilization.
Some wells went dry even at very low flow conditions.

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: Pfohl Brothers

Project Number: 11172700.00004

Sampling Crew Members: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date of Inspection: May 23, 2007

Sample I.D. Number	Well Number	Well Volume (liters)	Volume Purged (liters)	Sample Time	Sample Description	Analysis Required	Chain-of-Custody Number
GW-4D	GW-4D	81.2	9.5	11:25	Groundwater	VOCs/SVOCs/ Metals/Dioxins & Furans/Gamma Spec.	
GW-34S	GW-34S	4.0	10.5	13:05	Groundwater		
GW-30S	GW-30S	6.4	29.6	14:50	Groundwater		
DUP-052307	GW-30S	6.4	29.6	---	Duplicate		
GW-4S	GW-4S	7.1	9.5	15:55	Groundwater		
TB-052307	---	---	---	13:00	Trip Blank	VOCs	

Additional Comments: All wells were purged using low flow methods until parameter stabilization.
Some wells went dry even at very low flow conditions.

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: Pfohl Brothers

Project Number: 11172700.00004

Sampling Crew Members: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date of Inspection: May 24, 2007

<i>Sample I.D. Number</i>	<i>Well Number</i>	<i>Well Volume (liters)</i>	<i>Volume Purged (liters)</i>	<i>Sample Time</i>	<i>Sample Description</i>	<i>Analysis Required</i>	<i>Chain-of-Custody Number</i>
GW-7S	GW-7S	19.0	22.1	8:05	Groundwater	VOCs/SVOCs/ Metals/ Dioxins & Furans/Gamma Spec.	
GW-7D	GW-7D	57.9	54.9	8:25	Groundwater		
GW-1S	GW-1S	1.5	15.1	10:00	Groundwater		
GW-1D	GW-1D	84.6	34.1	11:05	Groundwater		
GW-29S	GW-29S	8.4	11.3	12:40	Groundwater		
TB-052407	---	---	---	---	Trip Blank	VOCs	

Additional Comments: All wells were purged using low flow methods until parameter stabilization.
Some wells went dry even at very low flow conditions.

GROUNDWATER SAMPLING - SAMPLE COLLECTION DATA SHEET

Project Name: Pfohl Brothers

Project Number: 11172700.00004

Sampling Crew Members: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date of Inspection: May 25, 2007

<i>Sample I.D. Number</i>	<i>Well Number</i>	<i>Well Volume (liters)</i>	<i>Volume Purged (liters)</i>	<i>Sample Time</i>	<i>Sample Description</i>	<i>Analysis Required</i>	<i>Chain-of-Custody Number</i>
GW-31S	GW-31S	4.1	56.8	8:00	Groundwater	VOCs/SVOCs/ Metals/ Dioxins & Furans/Gamma Spec.	
GW-33S	GW-33S	1.2	5.7	8:45	Groundwater		
GW-32S	GW-32S	3.3	8.5	10:10	Groundwater		
GW-35S	GW-35S	1.8	9.5	11:30	Groundwater		
GW-26D	GW-26D	84.6	30	13:05	Groundwater		
TB-052507	---	---	---	8:15	Trip Blank	VOCs	

Additional Comments: All wells were purged using low flow methods until parameter stabilization.
Some wells went dry even at very low flow conditions.

APPENDIX E

HISTORICAL ANALYTICAL RESULTS

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES 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)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.012 U	0.0025 U	0.0024 UJ	0.0048 U	0.00059 U
2,3,7,8-TCDF	NG/L	0.007	-	0.012 U	0.0016 U	0.0023 UJ	0.0048 U	0.00056 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.7 U	NA	3 U	NA	53 U
Actinium 228 (Soluble)	PCI/L	-	3270	13 U	NA	14.61 U	NA	48 U
Barium 133 (Insoluble)	PCI/L	-	1520	1.5 U	NA	0.64304 U	NA	13 U
Barium 133 (Soluble)	PCI/L	-	1520	9.3 U	NA	2.434 U	NA	13 U
Bismuth 212 (Insoluble)	PCI/L	-	-	8.2 U	NA	6.09 U	NA	120 U
Bismuth 212 (Soluble)	PCI/L	-	-	18 U	NA	17.81 U	NA	180 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.9 U	NA	1.322 U	NA	29 U
Bismuth 214 (Soluble)	PCI/L	-	18900	5.2 U	NA	5.934 U	NA	27 U
Cesium 134 (Insoluble)	PCI/L	-	80	1.75 ± 8.40E-01	NA	0.6227 U	NA	12 U
Cesium 134 (Soluble)	PCI/L	-	80	1.9 U	NA	2.391 U	NA	11 U
Cesium 137 (Insoluble)	PCI/L	-	200	0.52 U	NA	0.5458 U	NA	22 U
Cesium 137 (Soluble)	PCI/L	-	200	0.94 U	NA	2.256 U	NA	17 U
Cobalt 60 (Insoluble)	PCI/L	-	100	1.0 U	NA	1.139 U	NA	16 U
Cobalt 60 (Soluble)	PCI/L	-	100	3.3 U	NA	2.892 U	NA	23 U
Lead 212 (Insoluble)	PCI/L	-	123	1.5 U	NA	1.015 U	NA	19 U
Lead 212 (Soluble)	PCI/L	-	123	5.1 U	NA	6.73 U	NA	18 U
Lead 214 (Insoluble)	PCI/L	-	11800	1.8 U	NA	1.151 U	NA	23 U

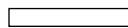
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

Advanced Selection: HISTGW
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES 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								
Lead 214 (Soluble)	PCI/L	-	11800	6.8 U	NA	5.045 U	NA	23 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	100.2 U	NA	1,600 U
Protactinium 234M (Insoluble)	PCI/L	-	-	140 U	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	NA	297.2 U	NA	1,400 U
Protactinium 234M (Soluble)	PCI/L	-	-	400 U	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	5.4 U	NA	12.65 U	NA	190 U
Potassium 40 (Soluble)	PCI/L	-	-	62 U	NA	39.44 U	NA	190 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	1.1 U	NA	0.7801 U	NA	14 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	3.2 U	NA	2.67 U	NA	12 U
Thorium 234 (Insoluble)	PCI/L	-	401	46 U	NA	30.38 U	NA	130 U
Thorium 234 (Soluble)	PCI/L	-	401	170 U	NA	106.9 U	NA	130 U
Uranium 235 (Insoluble)	PCI/L	-	-	0.84 U	NA	0.73021 U	NA	47 U
Uranium 235 (Soluble)	PCI/L	-	-	3.8 U	NA	2.947 U	NA	49 U
Zinc 65 (Insoluble)	PCI/L	-	-	0.85 U	NA	1.36 U	NA	36 U
Zinc 65 (Soluble)	PCI/L	-	-	5.4 U	NA	5.629 U	NA	28 U

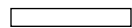
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

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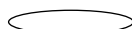
TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01D	GW-01D	GW-01S	GW-01S	GW-01S
Sample ID				GW-1D	GW-1D	GW-1S-012104	GW-01S	GW-1S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/08/06	05/24/07	01/21/04	10/02/04	05/05/05
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0049 U	0.000457 U	0.010 U	0.0023 U	0.0014 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0049 U	0.000343 U	0.010 U	0.0015 U	0.0014 UJ
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	73 U	3.8 U	NA	3.055 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	50 U	12 U	NA	8.272 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	23 U	2.0 U	NA	0.6281 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	13 U	8.1 U	NA	2.516 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	160 U	6.7 U	NA	5.554 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	83 U	18 U	NA	20.09 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	39 U	1.6 U	NA	1.346 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	31 U	5.8 U	NA	5.697 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	22 U	0.27 U	NA	0.7431 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	12 U	2.2 U	NA	1.915 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	16 U	0.38 U	NA	0.6193 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	13 U	0.78 U	NA	2.381 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	37 U	1.0 U	NA	1.081 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	17 U	3.5 U	NA	3.1 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	33 U	1.4 U	NA	1.046 U
Lead 212 (Soluble)	PCI/L	-	123	NA	17 U	4.8 U	NA	4.151 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	40 U	1.6 U	NA	1.416 U

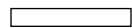
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01D	GW-01D	GW-01S	GW-01S	GW-01S
Sample ID				GW-1D	GW-1D	GW-1S-012104	GW-01S	GW-1S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/08/06	05/24/07	01/21/04	10/02/04	05/05/05
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	26 ± 1.30E+01	6.2 U	NA	4.622 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	2,900 U	NA	NA	111.1 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	140 U	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,500 U	NA	NA	328.1 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	400 U	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	320 U	29.8 ± 1.80E+01	NA	12.2 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	190 U	53 U	NA	31.45 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	22 U	1.1 U	NA	0.8073 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	11 U	3.7 U	NA	2.726 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	270 U	44 U	NA	80.096 ± 4.41E+01
Thorium 234 (Soluble)	PCI/L	-	401	NA	310 U	170 U	NA	91.5 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	110 U	0.88 U	NA	0.5334 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	52 U	3.5 U	NA	2.546 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	74 U	0.85 U	NA	1.774 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	29 U	6.2 U	NA	4.607 U

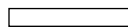
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Flags assigned during chemistry validation are shown.



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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01S	GW-01S	GW-01S	GW-01S	GW-03D
Sample ID				GW-1S	GW-01S	GW-1S	GW-1S	GW-3D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/21/05	05/18/06	11/08/06	05/24/07	01/22/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0048 U	0.0004 U	0.0048 U	0.000619 U	0.012 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0048 U	0.00036 U	0.0048 U	0.000454 U	0.012 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	43 U	NA	78 U	3.3 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	54 U	NA	60 U	13 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	14 U	NA	20 U	2.0 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	10 UR	NA	14 U	1.2 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	99 U	NA	160 U	7.5 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	180 U	NA	91 U	18 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	25 U	NA	53 U	1.8 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	27 U	NA	30 U	51.9 ± 1.70E+01
Cesium 134 (Insoluble)	PCI/L	-	80	NA	13 U	NA	22 U	3.1 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	10 UR	NA	10 U	12 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	21 U	NA	22 U	0.46 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	13 U	NA	13 U	1.3 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	25 U	NA	20 U	1.0 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	15 U	NA	17 U	0.77 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	16 U	NA	32 U	1.4 U
Lead 212 (Soluble)	PCI/L	-	123	NA	17 U	NA	20 U	5.1 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	28 U	NA	36 U	1.6 U

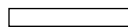
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-01S	GW-01S	GW-01S	GW-01S	GW-03D
Sample ID				GW-1S	GW-01S	GW-1S	GW-1S	GW-3D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/21/05	05/18/06	11/08/06	05/24/07	01/22/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	22 U	NA	24 U	46.5 ± 1.90E+01
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	1,600 U	NA	2,600 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	110 U
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,500 U	NA	1,700 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	310 U
Potassium 40 (Insoluble)	PCI/L	-	-	NA	210 U	NA	360 U	5.4 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	230 U	NA	170 U	49 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	15 U	NA	21 U	1.1 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	14 U	NA	14 U	4.8 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	130 U	NA	190 U	37 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	140 U	NA	140 U	190 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	46 U	NA	80 U	0.76 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	53 U	NA	42 U	3.8 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	40 U	NA	46 U	1.1 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	31 U	NA	27 U	4.9 U

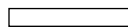
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03D	GW-03D	GW-03D	GW-03D	GW-03D
Sample ID				GW-3DD-012204	GW-3D	GW-3D	GW-3D	GW-3D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	09/30/04	05/05/05	09/21/05	05/17/06
Parameter	Units	(1)	(2)	Field Duplicate (1-1)				
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.012 U	0.0022 U	0.0014 U	0.0048 U	0.00075 U
2,3,7,8-TCDF	NG/L	0.007	-	0.012 U	0.0011 U	0.0019 U	0.0048 U	0.00066 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.5 U	NA	3.535 U	NA	NA
Actinium 228 (Soluble)	PCI/L	-	3270	17 U	NA	12.23 U	NA	NA
Barium 133 (Insoluble)	PCI/L	-	1520	0.35 U	NA	0.5997 U	NA	NA
Barium 133 (Soluble)	PCI/L	-	1520	1.5 U	NA	3.298 U	NA	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	8.2 U	NA	5.951 U	NA	NA
Bismuth 212 (Soluble)	PCI/L	-	-	22 U	NA	26.337 U	NA	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	2.3 U	NA	1.201 U	NA	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	67.2 ± 2.10E+01	NA	5.481 U	NA	NA
Cesium 134 (Insoluble)	PCI/L	-	80	4.0 U	NA	0.5912 U	NA	NA
Cesium 134 (Soluble)	PCI/L	-	80	2.2 U	NA	1.936 U	NA	NA
Cesium 137 (Insoluble)	PCI/L	-	200	0.40 U	NA	0.6465 U	NA	NA
Cesium 137 (Soluble)	PCI/L	-	200	1.3 U	NA	3.457 U	NA	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	1.1 U	NA	1.09 U	NA	NA
Cobalt 60 (Soluble)	PCI/L	-	100	0.82 U	NA	2.749 U	NA	NA
Lead 212 (Insoluble)	PCI/L	-	123	1.4 U	NA	1.003 U	NA	NA
Lead 212 (Soluble)	PCI/L	-	123	5.3 U	NA	4.235 U	NA	NA
Lead 214 (Insoluble)	PCI/L	-	11800	1.9 U	NA	1.284 U	NA	NA

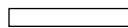
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Flags assigned during chemistry validation are shown.



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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03D	GW-03D	GW-03D	GW-03D	GW-03D
Sample ID				GW-3DD-012204	GW-3D	GW-3D	GW-3D	GW-3D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				01/22/04	09/30/04	05/05/05	09/21/05	05/17/06
Parameter	Units	(1)	(2)	Field Duplicate (1-1)				
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	66.8 ± 1.70E+01	NA	9.417 U	NA	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	97.03 U	NA	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	140 U	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	NA	374.8 U	NA	NA
Protactinium 234M (Soluble)	PCI/L	-	-	330 U	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	5.4 U	NA	11.93 U	NA	NA
Potassium 40 (Soluble)	PCI/L	-	-	61 U	NA	49.06 U	NA	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	1.0 U	NA	0.7173 U	NA	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	3.4 U	NA	2.4486 U	NA	NA
Thorium 234 (Insoluble)	PCI/L	-	401	41 U	NA	30.13 U	NA	NA
Thorium 234 (Soluble)	PCI/L	-	401	200 U	NA	118.6 U	NA	NA
Uranium 235 (Insoluble)	PCI/L	-	-	0.82 U	NA	0.564 U	NA	NA
Uranium 235 (Soluble)	PCI/L	-	-	4.2 U	NA	2.298 U	NA	NA
Zinc 65 (Insoluble)	PCI/L	-	-	0.42 U	NA	1.391 U	NA	NA
Zinc 65 (Soluble)	PCI/L	-	-	4.6 U	NA	4.983 U	NA	NA

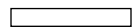
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03D	GW-03D	GW-03S	GW-03S	GW-03S
Sample ID				GW-3D	GW-3D	GW-3S-012004	GW-3S	GW-3S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/09/06	05/22/07	01/20/04	09/29/04	05/05/05
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0049 U	0.000526 U	0.010 U	0.0057 U	0.0021 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0049 U	0.000304 U	0.010 U	0.0019 U	0.0015 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	88 U	4.1 U	NA	3.172 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	52 U	13 U	NA	8.060 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	30 U	0.7 U	NA	0.5761 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	13 U	8.6 U	NA	2.942 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	200 U	6.5 U	NA	7.04 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	78 U	18 U	NA	16.89 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	55 U	1.9 U	NA	1.309 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	73 ± 2.80E+01	27.2 ± 1.20E+01	NA	5.571 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	22 U	4.1 U	NA	0.6039 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	14 U	2.0 U	NA	2.36 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	22 U	0.38 U	NA	0.6281 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	14 U	0.94 U	NA	2.218 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	17 U	0.93 U	NA	0.9931 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	11 U	0.77 U	NA	2.749 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	34 U	1.4 U	NA	0.9945 U
Lead 212 (Soluble)	PCI/L	-	123	NA	20 U	5.3 U	NA	3.783 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	47 U	1.7 U	NA	1.26 U

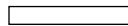
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03D	GW-03D	GW-03S	GW-03S	GW-03S
Sample ID				GW-3D	GW-3D	GW-3S-012004	GW-3S	GW-3S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/09/06	05/22/07	01/20/04	09/29/04	05/05/05
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	26 U	41.5 ± 1.70E+01	NA	5.193 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	2,900 U	NA	NA	113.6 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	140 U	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,700 U	NA	NA	332.1 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	310 U	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	450 U	5.4 U	NA	14.82 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	180 U	62 U	NA	52.71 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	27 U	1.0 U	NA	0.7193 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	15 U	3.9 U	NA	2.534 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	210 U	42 U	NA	33.78 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	160 U	190 U	NA	116.5 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	100 U	0.86 U	NA	0.7161 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	48 U	3.4 U	NA	4.949 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	84 U	0.85 U	NA	1.682 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	28 U	6.0 U	NA	4.691 U

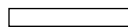
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03S	GW-03S	GW-03S	GW-03S	GW-04D
Sample ID				GW-3S	GW-03S	GW-3S	GW-3S	GW-4D-012304
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/21/05	05/17/06	11/09/06	05/22/07	01/23/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.005 U	0.00056 U	0.0048 U	0.000491 U	0.012 U
2,3,7,8-TCDF	NG/L	0.007	-	0.005 U	0.00055 U	0.0048 U	0.00039 U	0.012 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	59 U	NA	75 U	4.6 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	57 U	NA	55 U	16 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	15 U	NA	23 U	0.64 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	13 U	NA	15 U	8.1 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	110 U	NA	130 U	6.4 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	190 U	NA	95 U	24 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	35 U	NA	38 U	1.9 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	34 U	NA	31 ± 1.80E+01	22.1 ± 1.20E+01
Cesium 134 (Insoluble)	PCI/L	-	80	NA	12 U	NA	21 U	0.41 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	11 UR	NA	15 U	2.2 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	17 U	NA	17 U	0.55 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	14 U	NA	11 U	1.3 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	17 U	NA	30 U	1.0 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	19 U	NA	5.5 U	3.5 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	23 U	NA	25 U	1.5 U
Lead 212 (Soluble)	PCI/L	-	123	NA	21 U	NA	20 U	5.2 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	32 U	NA	35 U	1.5 U

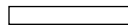
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-03S	GW-03S	GW-03S	GW-03S	GW-04D
Sample ID				GW-3S	GW-03S	GW-3S	GW-3S	GW-4D-012304
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/21/05	05/17/06	11/09/06	05/22/07	01/23/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	28 U	NA	27 U	5.8 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	2,200 U	NA	1,200 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	120 U
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,700 U	NA	2,200 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	390 U
Potassium 40 (Insoluble)	PCI/L	-	-	NA	290 U	NA	290 U	8.0 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	190 U	NA	200 U	52 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	16 U	NA	19 U	1.1 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	15 U	NA	11 U	3.9 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	160 U	NA	300 U	40 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	140 U	NA	310 U	170 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	51 U	NA	70 U	0.87 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	58 U	NA	55 U	3.4 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	34 U	NA	100 U	1.1 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	30 UR	NA	30 U	6.3 U

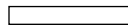
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04D	GW-04D	GW-04D	GW-04D	GW-04D
Sample ID				GW-04D	GW-4D	GW-4D	GW-04D	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/02/04	05/04/05	09/21/05	05/17/06	11/08/06
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0039 U	0.00096 U	0.005 U	0.00061 U	0.005 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0011 U	0.0016 U	0.005 U	0.00045 U	0.005 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	2.984 U	NA	55 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	NA	17.97 U	NA	48 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	NA	0.5758 U	NA	13 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	NA	2.91 U	NA	12 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	5.194 U	NA	120 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	NA	16.99 U	NA	200 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	1.511 U	NA	27 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	34.338 ± 1.13E+01	NA	30 U	NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA	0.6212 U	NA	9.4 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	NA	2.09 U	NA	9.2 UR	NA
Cesium 137 (Insoluble)	PCI/L	-	200	NA	0.6764 U	NA	14 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	NA	2.489 U	NA	17 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	1.044 U	NA	17 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	NA	3.007 U	NA	23 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	NA	0.9631 U	NA	14 U	NA
Lead 212 (Soluble)	PCI/L	-	123	NA	15.36 U	NA	18 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA	1.271 U	NA	21 U	NA

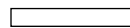
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

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Detection Limits shown are PQL

Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04D	GW-04D	GW-04D	GW-04D	GW-04D
Sample ID				GW-04D	GW-4D	GW-4D	GW-04D	GW-4D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/02/04	05/04/05	09/21/05	05/17/06	11/08/06
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	17.183 ± 9.02E+00	NA	25 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	95.06 U	NA	1,900 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	281.8 U	NA	1,600 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	11.84 U	NA	190 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	NA	72.73 U	NA	150 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	0.7684 U	NA	13 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	2.742 U	NA	12 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA	37.21 U	NA	130 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	NA	110.8 U	NA	130 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA	0.7006 U	NA	38 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	NA	2.984 U	NA	45 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	NA	1.629 U	NA	30 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	NA	5.812 U	NA	32 U	NA

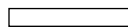
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04D	GW-04S	GW-04S	GW-04S	GW-04S
Sample ID				GW-4D	GW-4S-012004	GW-04S	GW-4S	GW-4S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/23/07	01/20/04	10/01/04	05/04/05	09/20/05
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.00054 U	0.011 U	0.0022 U	0.00084 U	0.005 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000442 U	0.011 U	0.0015 U	0.0017 U	0.005 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	73 U	3.3 U	NA	3.185 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	50 U	12 U	NA	8.632 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	22 U	1.8 U	NA	0.6774 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	13 U	8.1 U	NA	2.499 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	200 U	7.4 U	NA	5.962 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	99 U	25 U	NA	17.18 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	60 U	2.6 U	NA	1.433 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	30 U	6.2 U	NA	45.504 ± 1.36E+01	NA
Cesium 134 (Insoluble)	PCI/L	-	80	25 U	3.4 U	NA	0.6667 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	13 U	2.2 U	NA	1.971 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	20 U	0.38 U	NA	0.6438 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	14 U	1.3 U	NA	2.66 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	26 U	0.99 U	NA	1.053 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	18 U	3.5 U	NA	3.912 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	39 U	1.4 U	NA	0.9551 U	NA
Lead 212 (Soluble)	PCI/L	-	123	21 U	4.9 U	NA	3.817 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	47 U	2.0 U	NA	1.267 U	NA

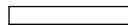
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04D	GW-04S	GW-04S	GW-04S	GW-04S
Sample ID				GW-4D	GW-4S-012004	GW-04S	GW-4S	GW-4S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/23/07	01/20/04	10/01/04	05/04/05	09/20/05
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	26 U	7.6 U	NA	21.406 ± 9.27E+00	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	2,800 U	NA	NA	95.72 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	140 U	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	1,900 U	NA	NA	321.7 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	400 U	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	460 U	6.9 U	NA	13.3 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	140 U	64 U	NA	26.51 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	29 U	1.2 U	NA	0.7656 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	13 U	3.2 U	NA	2.852 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	220 U	39 U	NA	44.48 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	130 U	190 U	NA	99.49 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	87 U	0.9 U	NA	0.6355 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	54 U	3.7 U	NA	3.153 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	43 U	1.4 U	NA	1.598 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	27 U	6.2 U	NA	5.403 U	NA

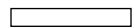
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04S	GW-04S	GW-04S	GW-06D	GW-07D
Sample ID				GW-04S	GW-4S	GW-4S	GW-06D	GW-7D-012304
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	11/08/06	05/23/07	05/19/06	01/23/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.00055 U	0.005 U	0.000512 U	0.0023 U	0.011 U
2,3,7,8-TCDF	NG/L	0.007	-	0.00043 U	0.005 U	0.000437 U	0.0015 U	0.011 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	56 U	NA	70 U	77 U	4.8 U
Actinium 228 (Soluble)	PCI/L	-	3270	68 U	NA	70 U	57 U	13 U
Barium 133 (Insoluble)	PCI/L	-	1520	12 U	NA	24 U	18 U	0.42 U
Barium 133 (Soluble)	PCI/L	-	1520	13 U	NA	13 U	14 U	2.2 U
Bismuth 212 (Insoluble)	PCI/L	-	-	110 U	NA	150 U	130 U	7.7 U
Bismuth 212 (Soluble)	PCI/L	-	-	220 U	NA	91 U	190 U	25 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	32 U	NA	35 U	37 U	1.7 U
Bismuth 214 (Soluble)	PCI/L	-	18900	32 U	NA	98 ± 2.40E+01	34 U	82.0 ± 2.00E+01
Cesium 134 (Insoluble)	PCI/L	-	80	12 U	NA	30 U	16 U	4.4 U
Cesium 134 (Soluble)	PCI/L	-	80	11 UR	NA	15 U	12 U	2.2 U
Cesium 137 (Insoluble)	PCI/L	-	200	14 U	NA	25 U	14 U	0.55 U
Cesium 137 (Soluble)	PCI/L	-	200	13 U	NA	13 U	14 U	0.78 U
Cobalt 60 (Insoluble)	PCI/L	-	100	17 U	NA	26 U	23 U	1.0 U
Cobalt 60 (Soluble)	PCI/L	-	100	14 U	NA	13 U	18 U	3.6 U
Lead 212 (Insoluble)	PCI/L	-	123	15 U	NA	27 U	20 U	1.6 U
Lead 212 (Soluble)	PCI/L	-	123	19 U	NA	18 U	20 U	5.4 U
Lead 214 (Insoluble)	PCI/L	-	11800	23 U	NA	40 U	33 U	1.5 U

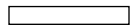
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Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)



Concentration Exceeds (2)

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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-04S	GW-04S	GW-04S	GW-06D	GW-07D
Sample ID				GW-04S	GW-4S	GW-4S	GW-06D	GW-7D-012304
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/16/06	11/08/06	05/23/07	05/19/06	01/23/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	27 U	NA	30 ± 1.60E+01	28 U	35.7 ± 1.40E+01
Proactinium 234M (Insoluble)	PCI/L	-	-	2,000 U	NA	1,200 U	2,500 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	140 U
Proactinium 234M (Soluble)	PCI/L	-	-	1,400 U	NA	2,000 U	1,500 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	290 U
Potassium 40 (Insoluble)	PCI/L	-	-	210 U	NA	310 U	230 U	5.4 U
Potassium 40 (Soluble)	PCI/L	-	-	210 U	NA	270 U	200 U	46 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	11 U	NA	19 U	23 U	1.2 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	14 U	NA	15 U	15 U	3.4 U
Thorium 234 (Insoluble)	PCI/L	-	401	130 U	NA	230 U	160 U	38 U
Thorium 234 (Soluble)	PCI/L	-	401	150 U	NA	150 U	150 U	210 U
Uranium 235 (Insoluble)	PCI/L	-	-	40 U	NA	80 U	49 U	0.86 U
Uranium 235 (Soluble)	PCI/L	-	-	57 U	NA	43 U	54 U	4.3 U
Zinc 65 (Insoluble)	PCI/L	-	-	31 U	NA	48 U	41 U	1.1 U
Zinc 65 (Soluble)	PCI/L	-	-	26 U	NA	37 U	31 U	6.4 U

(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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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07D	GW-07D	GW-07D	GW-07D
Sample ID				GW-07D	GW-7D	GW-7D	GW-07D	GW-7D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/03/04	05/04/05	09/21/05	05/18/06	11/07/06
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0026 U	0.001 U	0.0057 U	0.00082 U	0.0053 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0013 U	0.0034 J	0.0057 U	0.00085 U	0.0053 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	2.774 U	NA	53 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	NA	8.343 U	NA	45 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	NA	0.596 U	NA	13 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	NA	2.65 U	NA	15 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	5.685 U	NA	110 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	NA	15.65 U	NA	190 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	1.503 U	NA	36 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	9.111 U	NA	30 U	NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA	0.581 U	NA	11 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	NA	1.965 U	NA	11 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	NA	0.678 U	NA	18 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	NA	2.091 U	NA	14 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	1.138 U	NA	21 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	NA	2.296 U	NA	13 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	NA	0.948 U	NA	15 U	NA
Lead 212 (Soluble)	PCI/L	-	123	NA	7.82 U	NA	18 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA	1.302 U	NA	23 U	NA

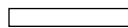
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07D	GW-07D	GW-07D	GW-07D
Sample ID				GW-07D	GW-7D	GW-7D	GW-07D	GW-7D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/03/04	05/04/05	09/21/05	05/18/06	11/07/06
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	14.28 U	NA	29 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	110.1 U	NA	1,300 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	271.5 U	NA	1,600 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	12.98 U	NA	170 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	NA	40.50 U	NA	190 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	0.784 U	NA	18 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	3.467 U	NA	15 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA	32.74 U	NA	110 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	NA	112.8 U	NA	140 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA	0.656 U	NA	42 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	NA	4.220 U	NA	50 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	NA	1.667 U	NA	40 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	NA	5.038 U	NA	24 U	NA

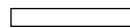
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07S	GW-07S	GW-07S	GW-07S
Sample ID				GW-7D	GW-7S-012104	GW-07S	GW-7S	DUP-092005
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/24/07	01/21/04	10/02/04	05/04/05	09/20/05
Parameter	Units	(1)	(2)					Field Duplicate (1-1)
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000656 U	0.011 U	0.002 U	0.00076 U	0.005 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000763 U	0.011 U	0.0014 U	0.0009 U	0.005 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	84 U	3.8 U	NA	3.148 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	70 U	18 U	NA	7.91 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	20 U	1.8 U	NA	0.5667 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	15 U	8.7 U	NA	2.773 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	150 U	7.7 U	NA	5.574 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	96 U	25 U	NA	16.04 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	50 U	2.3 U	NA	1.399 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	26 U	5.4 U	NA	32.656 ± 1.24E+01	NA
Cesium 134 (Insoluble)	PCI/L	-	80	19 U	4.1 U	NA	0.5981 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	12 U	1.9 U	NA	2.305 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	18 U	0.46 U	NA	0.7063 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	13 U	1.3 U	NA	2.589 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	30 U	0.93 U	NA	0.9841 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	25 U	3.0 U	NA	2.984 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	28 U	1.4 U	NA	0.9753 U	NA
Lead 212 (Soluble)	PCI/L	-	123	17 U	5.7 U	NA	5.558 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	35 U	6.3 ± 3.20E+00	NA	1.178 U	NA

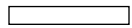
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Concentration Exceeds (1)



Concentration Exceeds (2)

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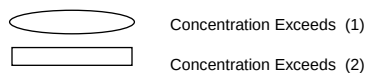
TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07D	GW-07S	GW-07S	GW-07S	GW-07S
Sample ID				GW-7D	GW-7S-012104	GW-07S	GW-7S	DUP-092005
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/24/07	01/21/04	10/02/04	05/04/05	09/20/05
Parameter	Units	(1)	(2)					Field Duplicate (1-1)
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	25 U	6.7 U	NA	8.293 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	2,800 U	NA	NA	109.7 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	140 U	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	1,900 U	NA	NA	326.6 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	410 U	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	340 U	5.8 U	NA	11.7 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	160 U	63 U	NA	31.48 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	16 U	1.4 U	NA	0.7476 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	14 U	4.0 U	NA	2.487 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	190 U	46 U	NA	33.86 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	140 U	180 U	NA	82.61 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	53 U	0.83 U	NA	0.5802 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	48 U	3.7 U	NA	2.89 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	55 U	0.83 U	NA	2.666 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	38 U	5.9 U	NA	5.698 U	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 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07S	GW-07S	GW-07S	GW-07S	GW-08D
Sample ID				GW-7S	GW-07S	GW-7S	GW-7S	GW-8D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/17/06	11/07/06	05/24/07	01/22/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.005 U	0.00077 U	0.0048 U	0.000497 U	0.012 U
2,3,7,8-TCDF	NG/L	0.007	-	0.005 U	0.00066 U	0.0048 U	0.000414 U	0.012 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	49 U	NA	90 U	3.6 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	62 U	NA	50 U	13 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	14 U	NA	21 U	1.4 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	12 U	NA	12 U	9.1 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	100 U	NA	160 U	8.1 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	200 U	NA	100 U	22 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	33 U	NA	50 U	1.9 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	36 U	NA	32 U	59.5 ± 1.90E+01
Cesium 134 (Insoluble)	PCI/L	-	80	NA	16 U	NA	15 U	1.87 ± 1.10E+00
Cesium 134 (Soluble)	PCI/L	-	80	NA	12 U	NA	14 U	2.4 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	23 U	NA	19 U	0.55 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	15 U	NA	15 U	1.4 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	15 U	NA	27 U	0.79 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	17 U	NA	17 U	3.5 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	18 U	NA	33 U	1.5 U
Lead 212 (Soluble)	PCI/L	-	123	NA	19 U	NA	20 U	5.0 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	27 U	NA	39 U	1.6 U

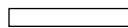
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Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-07S	GW-07S	GW-07S	GW-07S	GW-08D
Sample ID				GW-7S	GW-07S	GW-7S	GW-7S	GW-8D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/17/06	11/07/06	05/24/07	01/22/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	27 U	NA	20 U	75.6 ± 1.80E+01
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	2,300 U	NA	2,600 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	140 U
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,400 U	NA	1,400 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	390 U
Potassium 40 (Insoluble)	PCI/L	-	-	NA	210 U	NA	360 U	9.0 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	140 U	NA	190 U	52 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	19 U	NA	23 U	1.2 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	16 U	NA	11 U	3.8 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	110 UR	NA	200 U	42 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	160 U	NA	310 U	200 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	40 U	NA	70 U	0.85 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	51 U	NA	46 U	4.0 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	31 U	NA	44 U	0.42 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	29 U	NA	26 U	6.0 U

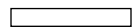
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

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)				
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0015 U	0.014 UR	0.0017 U	0.0048 U	0.0026 J
2,3,7,8-TCDF	NG/L	0.007	-	0.0014 U	0.0073 UR	0.0016 U	0.0048 U	0.0035 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	NA	3.51 U	NA	59 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	NA	7.47 U	NA	58 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	NA	0.5333 U	NA	15 UR
Barium 133 (Soluble)	PCI/L	-	1520	NA	NA	2.695 U	NA	12 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	NA	5.113 U	NA	120 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	NA	17.47 U	NA	170 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	NA	1.402 U	NA	42 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	NA	6.06 U	NA	32 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	NA	0.6186 U	NA	12 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	NA	2.159 U	NA	11 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	NA	0.6894 U	NA	19 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	NA	2.289 U	NA	16 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	NA	1.019 U	NA	27 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	NA	2.918 U	NA	20 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	NA	1.152 U	NA	22 U
Lead 212 (Soluble)	PCI/L	-	123	NA	NA	5.389 U	NA	18 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	NA	1.169 U	NA	31 U

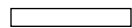
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
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)				
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	NA	4.765 U	NA	23 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	108.8 U	NA	2,100 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	NA	301.8 U	NA	1,700 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	NA	12.8 U	NA	270 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	NA	27.26 U	NA	200 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	NA	0.7146 U	NA	23 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	NA	2.634 U	NA	12 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	NA	66.63 U	NA	170 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	NA	111.04 U	NA	130 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	NA	0.6815 U	NA	52 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	NA	2.88 U	NA	50 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	NA	1.765 U	NA	32 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	NA	5.799 U	NA	33 U

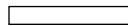
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08D	GW-08D	GW-08SR	GW-08SR	GW-08SR
Sample ID				GW-8D	GW-8D	GW-8SR-012104	GW-8SR	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/08/06	05/22/07	01/21/04	09/30/04	05/05/05
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0049 U	0.0007 U	0.010 U	0.0025 U	0.0027 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0049 U	0.000452 U	0.010 U	0.0012 U	0.0022 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	80 U	10.0 ± 5.60E+00	NA	2.355 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	70 U	12 U	NA	12.13 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	21 U	0.53 U	NA	1.0737 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	15 U	2.0 U	NA	2.43 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	140 U	5.9 U	NA	4.071 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	120 U	25 U	NA	16.66 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	50 U	11.7 ± 4.70E+00	NA	1.406 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	29 U	8.7 U	NA	14.00 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	17 U	0.43 U	NA	0.332 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	14 U	2.2 U	NA	2.167 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	19 U	0.38 U	NA	0.3543 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	14 U	1.3 U	NA	2.254 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	9.6 U	1.1 U	NA	0.6915 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	18 U	3.2 U	NA	2.705 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	34 U	15.2 ± 3.70E+00	NA	1.8204 U
Lead 212 (Soluble)	PCI/L	-	123	NA	16 U	5.3 U	NA	8.706 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	37 U	10.2 ± 4.50E+00	NA	2.441 U

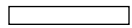
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08D	GW-08D	GW-08SR	GW-08SR	GW-08SR
Sample ID				GW-8D	GW-8D	GW-8SR-012104	GW-8SR	GW-8SR
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				11/08/06	05/22/07	01/21/04	09/30/04	05/05/05
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	25 U	18.7 ± 1.10E+01	NA	13.09 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	2,600 U	NA	NA	72.26 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	140 U	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,800 U	NA	NA	297.7 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	310 U	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	340 U	167 ± 6.00E+01	NA	11.95 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	140 U	62 U	NA	46.34 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	23 U	1.0 U	NA	0.678 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	20 U	3.9 U	NA	2.703 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	210 U	48 U	NA	130.2 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	140 U	180 U	NA	106.8 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	68 U	0.86 U	NA	0.98404 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	45 U	3.5 U	NA	2.38 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	56 U	1.6 U	NA	0.9153 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	33 U	6.1 U	NA	5.563 U

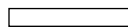
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08SR	GW-08SR	GW-08SR	GW-08SR	GW-26D
Sample ID				GW-8SR	GW-08SR	GW-8SR	GW-8SR	GW-26D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/21/05	05/18/06	11/08/06	05/22/07	01/22/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0048 U	0.0015 U	0.0049 U	0.000701 U	0.012 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0048 U	0.0012 U	0.0049 U	0.000453 U	0.012 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	47 U	NA	81 U	5.0 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	55 U	NA	60 U	13 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	14 U	NA	22 U	0.57 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	13 U	NA	9.9 U	8.0 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	110 U	NA	160 U	7.1 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	190 U	NA	94 U	18 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	35 U	NA	53 U	1.8 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	36 U	NA	33 U	5.4 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	9.7 UR	NA	20 U	3.1 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	11 U	NA	11 U	2.3 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	21 U	NA	22 U	0.55 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	13 U	NA	12 U	1.1 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	15 U	NA	27 U	0.36 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	14 U	NA	16 U	0.77 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	19 U	NA	34 U	1.4 U
Lead 212 (Soluble)	PCI/L	-	123	NA	19 U	NA	17 U	4.7 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	25 U	NA	50 U	1.5 U

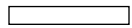
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-08SR	GW-08SR	GW-08SR	GW-08SR	GW-26D
Sample ID				GW-8SR	GW-08SR	GW-8SR	GW-8SR	GW-26D-012204
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/21/05	05/18/06	11/08/06	05/22/07	01/22/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	27 U	NA	21 U	6.6 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	1,800 U	NA	3,500 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	120 U
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,800 U	NA	1,500 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	410 U
Potassium 40 (Insoluble)	PCI/L	-	-	NA	170 U	NA	430 U	5.4 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	220 U	NA	180 U	63 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	13 U	NA	30 U	1.0 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	13 U	NA	11 U	3.2 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	130 U	NA	230 U	46 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	160 U	NA	300 U	190 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	48 U	NA	79 U	0.9 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	49 U	NA	63 U	3.2 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	28 U	NA	58 U	0.42 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	31 U	NA	30 U	6.1 U

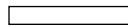
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-26D	GW-26D	GW-26D	GW-26D	GW-26D
Sample ID				GW-26D	GW-26D	GW-27D	GW-26D	GW-26D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/01/04	05/04/05	05/04/05	09/20/05	05/18/06
Parameter	Units	(1)	(2)			Field Duplicate (1-1)		
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0015 U	0.0011 U	0.00074 U	0.005 U	0.00053 U
2,3,7,8-TCDF	NG/L	0.007	-	0.001 U	0.0011 U	0.0014 U	0.005 U	0.00044 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	3.352 U	3.163 U	NA	77 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	8.217 U	9.727 U	NA	58 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	0.6866 U	0.6056 U	NA	17 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	2.85 U	3.085 U	NA	14 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	5.435 U	5.697 U	NA	140 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	17 U	16.13 U	NA	190 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	1.442 U	1.408 U	NA	47 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	14.76 ± 8.89E+00	14.30 U	NA	35 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	0.6786 U	0.6315 U	NA	15 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	1.825 U	2.078 U	NA	12 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	0.6815 U	0.711 U	NA	14 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	2.219 U	2.107 U	NA	15 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	1.135 U	1.117 U	NA	12 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	2.701 U	2.932 U	NA	16 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	1.08 U	0.9789 U	NA	20 U
Lead 212 (Soluble)	PCI/L	-	123	NA	9.281 U	3.854 U	NA	18 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	2.246 U	1.277 U	NA	37 U

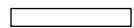
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-26D	GW-26D	GW-26D	GW-26D	GW-26D
Sample ID				GW-26D	GW-26D	GW-27D	GW-26D	GW-26D
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/01/04	05/04/05	05/04/05	09/20/05	05/18/06
Parameter	Units	(1)	(2)			Field Duplicate (1-1)		
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	13.11 U	11.02 U	NA	24 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	99.42 U	98.12 U	NA	2,000 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	344.9 U	322.9 U	NA	1,700 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	11.81 U	12.6 U	NA	260 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	57.42 U	51.76 U	NA	190 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	0.7442 U	0.7156 U	NA	15 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	2.689 U	2.553 U	NA	14 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	33 U	55.09 U	NA	140 UR
Thorium 234 (Soluble)	PCI/L	-	401	NA	105.8 U	101.7 U	NA	150 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	0.5802 U	0.6224 U	NA	52 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	3.154 U	2.81 U	NA	59 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	1.498 U	1.535 U	NA	37 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	5.074 U	5.248 U	NA	28 U

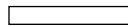
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (1)



Concentration Exceeds (2)

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Detection Limits shown are PQL

Advanced Selection: HISTGW
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-26D	GW-26D	GW-26D	GW-26D	GW-28S
Sample ID				GW-27D-DUP	DUP-110706	GW-26D	GW-26D	GW-28S-012104
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	11/07/06	11/07/06	05/25/07	01/21/04
Parameter	Units	(1)	(2)	Field Duplicate (1-1)	Field Duplicate (1-1)			
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.00086 U	0.0049 U	0.0051 U	0.000387 U	0.011 U
2,3,7,8-TCDF	NG/L	0.007	-	0.00056 U	0.0049 U	0.0051 U	0.000324 U	0.011 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	45 U	NA	NA	85 U	6.5 U
Actinium 228 (Soluble)	PCI/L	-	3270	55 U	NA	NA	54 U	12 U
Barium 133 (Insoluble)	PCI/L	-	1520	14 U	NA	NA	24 U	1.5 U
Barium 133 (Soluble)	PCI/L	-	1520	13 U	NA	NA	8.7 U	1.1 U
Bismuth 212 (Insoluble)	PCI/L	-	-	120 U	NA	NA	170 U	6.9 U
Bismuth 212 (Soluble)	PCI/L	-	-	180 U	NA	NA	90 U	25 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	36 U	NA	NA	50 U	12.3 ± 5.40E+00
Bismuth 214 (Soluble)	PCI/L	-	18900	31 U	NA	NA	30 U	5.3 U
Cesium 134 (Insoluble)	PCI/L	-	80	12 U	NA	NA	20 U	4.0 U
Cesium 134 (Soluble)	PCI/L	-	80	12 U	NA	NA	13 U	2.4 U
Cesium 137 (Insoluble)	PCI/L	-	200	19 U	NA	NA	20 U	0.57 U
Cesium 137 (Soluble)	PCI/L	-	200	14 U	NA	NA	14 U	0.94 U
Cobalt 60 (Insoluble)	PCI/L	-	100	20 U	NA	NA	15 U	0.36 U
Cobalt 60 (Soluble)	PCI/L	-	100	16 U	NA	NA	15 U	3.5 U
Lead 212 (Insoluble)	PCI/L	-	123	16 U	NA	NA	30 U	14.2 ± 3.80E+00
Lead 212 (Soluble)	PCI/L	-	123	20 U	NA	NA	20 U	4.8 U
Lead 214 (Insoluble)	PCI/L	-	11800	24 U	NA	NA	48 U	8.7 ± 4.00E+00

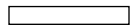
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-26D	GW-26D	GW-26D	GW-26D	GW-28S
Sample ID				GW-27D-DUP	DUP-110706	GW-26D	GW-26D	GW-28S-012104
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/18/06	11/07/06	11/07/06	05/25/07	01/21/04
Parameter	Units	(1)	(2)	Field Duplicate (1-1)	Field Duplicate (1-1)			
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	26 U	NA	NA	20 U	6.0 U
Proactinium 234M (Insoluble)	PCI/L	-	-	1,900 U	NA	NA	2,100 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	140 U
Proactinium 234M (Soluble)	PCI/L	-	-	1,700 U	NA	NA	1,800 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	410 U
Potassium 40 (Insoluble)	PCI/L	-	-	220 U	NA	NA	440 U	20 U
Potassium 40 (Soluble)	PCI/L	-	-	260 U	NA	NA	170 U	64 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	14 U	NA	NA	27 U	4.8 ± 2.20E+00
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	12 U	NA	NA	12 U	3.8 U
Thorium 234 (Insoluble)	PCI/L	-	401	110 U	NA	NA	220 U	49 U
Thorium 234 (Soluble)	PCI/L	-	401	150 U	NA	NA	300 U	170 U
Uranium 235 (Insoluble)	PCI/L	-	-	39 U	NA	NA	75 U	0.94 U
Uranium 235 (Soluble)	PCI/L	-	-	49 U	NA	NA	55 U	3.5 U
Zinc 65 (Insoluble)	PCI/L	-	-	37 U	NA	NA	50 U	0.77 U
Zinc 65 (Soluble)	PCI/L	-	-	36 U	NA	NA	29 U	5.1 U

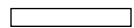
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-28S	GW-28S	GW-28S	GW-28S
Sample ID				GW-28S	GW-28S	GW-28S	GW-28S	GW-28S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/30/04	05/05/05	09/20/05	05/18/06	11/07/06
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0021 U	0.0021 U	0.0049 U	0.00054 U	0.0049 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0012 U	0.0021 U	0.0049 U	0.00043 U	0.0049 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	3.25 U	NA	48 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	NA	8.076 U	NA	59 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	NA	0.589 U	NA	13 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	NA	2.554 U	NA	11 UR	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	5.555 U	NA	130 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	NA	18.74 U	NA	180 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	1.23 U	NA	27 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	5.173 U	NA	26 U	NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA	0.6302 U	NA	13 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	NA	1.917 U	NA	12 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	NA	0.6591 U	NA	20 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	NA	2.491 U	NA	14 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	1.075 U	NA	19 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	NA	2.666 U	NA	17 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	NA	1.9052 U	NA	16 U	NA
Lead 212 (Soluble)	PCI/L	-	123	NA	10.065 U	NA	17 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA	1.276 U	NA	26 U	NA

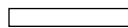
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-28S	GW-28S	GW-28S	GW-28S
Sample ID				GW-28S	GW-28S	GW-28S	GW-28S	GW-28S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/30/04	05/05/05	09/20/05	05/18/06	11/07/06
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	4.338 U	NA	22 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	109.2 U	NA	1,900 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	346.1 U	NA	2,000 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	12.18 U	NA	230 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	NA	26.73 U	NA	200 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	0.7567 U	NA	17 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	2.47 U	NA	14 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA	57.86 U	NA	120 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	NA	127.9 U	NA	150 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA	0.83604 U	NA	53 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	NA	3.308 U	NA	50 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	NA	1.587 U	NA	30 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	NA	5.782 U	NA	32 U	NA

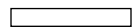
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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-29S	GW-29S	GW-29S	GW-29S
Sample ID				GW-28S	GW-29S-012104	GW-29S	GW-29S	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/22/07	01/21/04	10/01/04	05/04/05	09/20/05
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000564 U	0.010 U	0.0018 U	0.0012 U	0.0048 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000357 U	0.010 U	0.0013 U	0.0015 U	0.0048 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	83 U	4.9 U	NA	3.225 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	49 U	12 U	NA	11.039 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	20 U	0.51 U	NA	0.6584 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	11 U	1.4 U	NA	2.68 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	140 U	8.3 U	NA	5.706 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	94 U	24 U	NA	16.03 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	49 U	1.7 U	NA	1.275 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	32 U	16.1 ± 9.70E+00	NA	5.442 U	NA
Cesium 134 (Insoluble)	PCI/L	-	80	18 U	4.5 U	NA	0.5773 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	12 U	2.3 U	NA	1.991 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	19 U	0.55 U	NA	0.7578 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	16 U	1.2 U	NA	2.576 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	30 U	0.99 U	NA	0.9958 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	14 U	3.5 U	NA	2.742 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	29 U	1.6 U	NA	1.01 U	NA
Lead 212 (Soluble)	PCI/L	-	123	20 U	5.2 U	NA	8.428 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	34 U	1.7 U	NA	1.247 U	NA

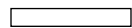
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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-28S	GW-29S	GW-29S	GW-29S	GW-29S
Sample ID				GW-28S	GW-29S-012104	GW-29S	GW-29S	GW-29S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/22/07	01/21/04	10/01/04	05/04/05	09/20/05
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	23 U	5.6 U	NA	4.766 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	2,500 U	NA	NA	115.5 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	140 U	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	1,700 U	NA	NA	292.9 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	350 U	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	400 U	13 U	NA	12.82 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	180 U	63 U	NA	56.98 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	22 U	1.4 U	NA	0.8349 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	11 U	3.8 U	NA	2.801 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	200 U	39 ± 7.80E+01	NA	29.37 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	320 U	180 U	NA	113 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	63 U	0.74 U	NA	0.7069 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	59 U	3.7 U	NA	2.962 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	53 U	1.6 U	NA	1.397 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	30 U	6.0 U	NA	5.757 U	NA

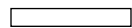
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Concentration Exceeds (1)



Concentration Exceeds (2)

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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES 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				05/16/06	11/06/06	05/24/07	01/20/04	10/01/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0011 U	0.0049 U	0.000591 U	0.010 U	0.003 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0008 U	0.0049 U	0.000389 U	0.010 U	0.0014 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	62 U	NA	44 U	3.3 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	63 U	NA	51 U	12 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	16 U	NA	20 U	2.50 ± 1.40E+00	NA
Barium 133 (Soluble)	PCI/L	-	1520	12 UR	NA	11 U	1.1 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	110 U	NA	130 U	7.6 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	180 U	NA	100 U	19 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	34 U	NA	37 U	2.1 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	29 U	NA	31 U	24.6 ± 1.30E+01	NA
Cesium 134 (Insoluble)	PCI/L	-	80	16 U	NA	23 U	3.6 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	12 U	NA	8.9 U	2.4 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	20 U	NA	20 U	0.5 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	18 U	NA	13 U	0.94 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	23 U	NA	36 U	0.36 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	21 U	NA	16 U	0.77 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	19 U	NA	33 U	1.4 U	NA
Lead 212 (Soluble)	PCI/L	-	123	15 U	NA	20 U	5.1 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	24 U	NA	31 U	1.5 U	NA

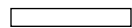
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES 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				05/16/06	11/06/06	05/24/07	01/20/04	10/01/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	21 U	NA	23 U	22.7 ± 1.10E+01	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	2,400 U	NA	2,200 U	NA	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	140 U	NA
Proactinium 234M (Soluble)	PCI/L	-	-	1,800 U	NA	1,600 U	NA	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	390 U	NA
Potassium 40 (Insoluble)	PCI/L	-	-	150 UR	NA	250 U	37.5 ± 2.00E+01	NA
Potassium 40 (Soluble)	PCI/L	-	-	170 U	NA	210 U	48 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	15 U	NA	23 U	1.0 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	13 U	NA	12 U	4.9 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	140 U	NA	270 U	41 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	130 U	NA	300 U	200 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	58 U	NA	80 U	0.92 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	44 U	NA	52 ± 3.00E+01	3.6 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	42 U	NA	74 U	0.84 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	33 U	NA	37 U	5.0 U	NA

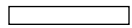
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

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Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-30S	GW-30S	GW-30S	GW-30S
Sample ID				GW-30S	GW-30S	GW-30S	GW-30S	DUP-052307
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	11/06/06	05/23/07
Parameter	Units	(1)	(2)					Field Duplicate (1-1)
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0013 U	0.0048 U	0.00042 U	0.0049 U	0.000475 U
2,3,7,8-TCDF	NG/L	0.007	-	0.002 U	0.0048 U	0.00042 U	0.0049 U	0.000448 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.067 U	NA	60 U	NA	87 U
Actinium 228 (Soluble)	PCI/L	-	3270	10.048 U	NA	49 U	NA	51 U
Barium 133 (Insoluble)	PCI/L	-	1520	0.2772 U	NA	15 U	NA	25 U
Barium 133 (Soluble)	PCI/L	-	1520	2.482 U	NA	14 U	NA	12 U
Bismuth 212 (Insoluble)	PCI/L	-	-	3.858 U	NA	120 U	NA	160 U
Bismuth 212 (Soluble)	PCI/L	-	-	18.7 U	NA	160 U	NA	89 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	4.173 U	NA	32 U	NA	52 U
Bismuth 214 (Soluble)	PCI/L	-	18900	5.19 U	NA	29 U	NA	30 U
Cesium 134 (Insoluble)	PCI/L	-	80	0.52304 U	NA	16 U	NA	23 U
Cesium 134 (Soluble)	PCI/L	-	80	1.825 U	NA	11 U	NA	13 U
Cesium 137 (Insoluble)	PCI/L	-	200	0.4507 U	NA	21 U	NA	22 U
Cesium 137 (Soluble)	PCI/L	-	200	2.242 U	NA	17 U	NA	12 U
Cobalt 60 (Insoluble)	PCI/L	-	100	0.6915 U	NA	26 U	NA	27 U
Cobalt 60 (Soluble)	PCI/L	-	100	2.383 U	NA	20 U	NA	17 U
Lead 212 (Insoluble)	PCI/L	-	123	2.906 U	NA	16 U	NA	32 U
Lead 212 (Soluble)	PCI/L	-	123	3.933 U	NA	17 U	NA	29 U
Lead 214 (Insoluble)	PCI/L	-	11800	1.329 U	NA	27 U	NA	46 U

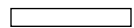
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-30S	GW-30S	GW-30S	GW-30S
Sample ID				GW-30S	GW-30S	GW-30S	GW-30S	DUP-052307
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	11/06/06	05/23/07
Parameter	Units	(1)	(2)					Field Duplicate (1-1)
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	4.589 U	NA	23 U	NA	23 U
Proactinium 234M (Insoluble)	PCI/L	-	-	72.26 U	NA	1,900 U	NA	2,100 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	317.5 U	NA	1,800 U	NA	2,200 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	18.08 U	NA	190 U	NA	440 U
Potassium 40 (Soluble)	PCI/L	-	-	26.67 U	NA	210 U	NA	180 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	1.5827 U	NA	12 U	NA	28 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.479 U	NA	11 U	NA	12 U
Thorium 234 (Insoluble)	PCI/L	-	401	122.43 U	NA	120 U	NA	230 U
Thorium 234 (Soluble)	PCI/L	-	401	83.22 U	NA	130 U	NA	310 U
Uranium 235 (Insoluble)	PCI/L	-	-	2.4219 ± 1.42E+00	NA	44 U	NA	83 U
Uranium 235 (Soluble)	PCI/L	-	-	2.364 U	NA	50 U	NA	51 U
Zinc 65 (Insoluble)	PCI/L	-	-	1.114 U	NA	34 U	NA	48 U
Zinc 65 (Soluble)	PCI/L	-	-	5.81 U	NA	22 UR	NA	29 U

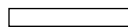
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-31S	GW-31S	GW-31S	GW-31S
Sample ID				GW-30S	GW-31S	GW-31S	GW-31S	GW-31S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/23/07	10/01/04	05/04/05	09/20/05	05/16/06
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000515 U	0.0025 U	0.0017 U	0.0049 U	0.0044
2,3,7,8-TCDF	NG/L	0.007	-	0.000485 U	0.0012 U	0.0014 U	0.0021 J	0.0037
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	79 U	NA	3.494 U	NA	48 U
Actinium 228 (Soluble)	PCI/L	-	3270	55 U	NA	16.66 U	NA	52 U
Barium 133 (Insoluble)	PCI/L	-	1520	19 U	NA	0.624 U	NA	12 U
Barium 133 (Soluble)	PCI/L	-	1520	14 U	NA	2.641 U	NA	12 UR
Bismuth 212 (Insoluble)	PCI/L	-	-	140 U	NA	5.27 U	NA	100 U
Bismuth 212 (Soluble)	PCI/L	-	-	100 U	NA	16.9 U	NA	190 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	46 U	NA	1.43 U	NA	33 U
Bismuth 214 (Soluble)	PCI/L	-	18900	28 U	NA	5.144 U	NA	31 U
Cesium 134 (Insoluble)	PCI/L	-	80	18 U	NA	0.605 U	NA	12 U
Cesium 134 (Soluble)	PCI/L	-	80	9.3 U	NA	2.075 U	NA	12 U
Cesium 137 (Insoluble)	PCI/L	-	200	20 U	NA	0.690 U	NA	20 U
Cesium 137 (Soluble)	PCI/L	-	200	13 U	NA	2.078 U	NA	15 U
Cobalt 60 (Insoluble)	PCI/L	-	100	13 U	NA	1.112 U	NA	22 U
Cobalt 60 (Soluble)	PCI/L	-	100	16 U	NA	2.497 U	NA	15 U
Lead 212 (Insoluble)	PCI/L	-	123	32 U	NA	1.22 U	NA	15 U
Lead 212 (Soluble)	PCI/L	-	123	16 U	NA	3.517 U	NA	16 U
Lead 214 (Insoluble)	PCI/L	-	11800	35 U	NA	1.307 U	NA	23 U

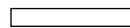
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Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-30S	GW-31S	GW-31S	GW-31S	GW-31S
Sample ID				GW-30S	GW-31S	GW-31S	GW-31S	GW-31S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/23/07	10/01/04	05/04/05	09/20/05	05/16/06
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	23 U	NA	4.103 U	NA	27 U
Proactinium 234M (Insoluble)	PCI/L	-	-	3,000 U	NA	110.1 U	NA	1,800 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	540 U	NA	304.6 U	NA	1,400 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	400 U	NA	11.98 U	NA	220 U
Potassium 40 (Soluble)	PCI/L	-	-	140 U	NA	29.63 U	NA	160 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	21 U	NA	0.771 U	NA	12 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	17 U	NA	2.394 U	NA	14 U
Thorium 234 (Insoluble)	PCI/L	-	401	290 U	NA	31.5 U	NA	120 U
Thorium 234 (Soluble)	PCI/L	-	401	160 U	NA	110.2 U	NA	160 U
Uranium 235 (Insoluble)	PCI/L	-	-	80 U	NA	0.584 U	NA	44 U
Uranium 235 (Soluble)	PCI/L	-	-	48 U	NA	2.707 U	NA	52 U
Zinc 65 (Insoluble)	PCI/L	-	-	53 U	NA	2.081 U	NA	36 U
Zinc 65 (Soluble)	PCI/L	-	-	33 U	NA	5.517 U	NA	31 U

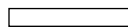
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)



Concentration Exceeds (2)

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Detection Limits shown are PQL

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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
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				11/06/06	05/25/07	01/20/04	10/01/04	05/04/05
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0051 U	0.000466 U	0.010 U	0.0021 U	0.00099 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0051 U	0.000414 U	0.010 U	0.0012 U	0.0013 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	70 U	3.5 U	NA	3.023 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	50 U	12 U	NA	9.482 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	22 U	0.35 U	NA	0.6437 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	11 U	2.3 U	NA	2.704 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	120 U	8.3 U	NA	5.695 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	63 U	25 U	NA	15.67 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	45 U	2.4 U	NA	1.195 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	27 U	20.7 ± 1.10E+01	NA	5.821 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	24 U	6.0 U	NA	0.5481 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	9.9 U	1.7 U	NA	2.066 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	21 U	0.4 U	NA	0.6379 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	13 U	1.7 U	NA	2.735 U
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	20 U	0.99 U	NA	1.05 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	16 U	3.5 U	NA	2.701 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	28 U	1.5 U	NA	0.9565 U
Lead 212 (Soluble)	PCI/L	-	123	NA	19 U	4.9 U	NA	12.44 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	36 U	1.7 U	NA	1.329 U

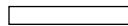
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
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				11/06/06	05/25/07	01/20/04	10/01/04	05/04/05
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	26 U	6.1 U	NA	4.513 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	2,900 U	NA	NA	97.28 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	110 U	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,600 U	NA	NA	308.1 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	390 U	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	330 U	44.9 ± 2.30E+01	NA	14.16 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	190 U	65 U	NA	46.91 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	20 U	1.0 U	NA	0.7642 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	10 U	3.7 U	NA	2.611 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	260 U	44 U	NA	30.94 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	140 U	160 U	NA	154.4 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	80 U	0.92 U	NA	0.5472 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	60 U	4.0 U	NA	2.886 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	53 U	0.42 U	NA	1.658 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	34 U	5.3 U	NA	4.541 U

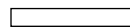
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-32S	GW-32S	GW-32S	GW-32S	GW-33S
Sample ID				GW-32S	GW-32S	GW-32S	GW-32S	GW33S-012004
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	11/06/06	05/25/07	01/20/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.005 U	0.00061 U	0.0051 U	0.000447 U	0.012 U
2,3,7,8-TCDF	NG/L	0.007	-	0.005 U	0.00067 U	0.0051 U	0.00036 U	0.012 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	64 U	NA	66 U	4.7 U
Actinium 228 (Soluble)	PCI/L	-	3270	NA	40 U	NA	50 U	14 U
Barium 133 (Insoluble)	PCI/L	-	1520	NA	15 U	NA	18 U	2.1 U
Barium 133 (Soluble)	PCI/L	-	1520	NA	8.8 UR	NA	14 U	1.2 U
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	130 U	NA	140 U	9.0 U
Bismuth 212 (Soluble)	PCI/L	-	-	NA	150 U	NA	110 U	25 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	46 U	NA	40 U	2.3 U
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	21 U	NA	29 U	6.8 U
Cesium 134 (Insoluble)	PCI/L	-	80	NA	13 U	NA	17 U	0.38 U
Cesium 134 (Soluble)	PCI/L	-	80	NA	8.8 U	NA	11 U	2.3 U
Cesium 137 (Insoluble)	PCI/L	-	200	NA	11 U	NA	21 U	0.44 U
Cesium 137 (Soluble)	PCI/L	-	200	NA	11 U	NA	14 U	6.35 ± 3.80E+00
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	4.4 U	NA	29 U	1.0 U
Cobalt 60 (Soluble)	PCI/L	-	100	NA	11 U	NA	18 U	3.3 U
Lead 212 (Insoluble)	PCI/L	-	123	NA	22 U	NA	25 U	1.7 U
Lead 212 (Soluble)	PCI/L	-	123	NA	15 U	NA	30 U	5.5 U
Lead 214 (Insoluble)	PCI/L	-	11800	NA	30 U	NA	34 U	1.4 U

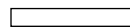
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Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)



Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-32S	GW-32S	GW-32S	GW-32S	GW-33S
Sample ID				GW-32S	GW-32S	GW-32S	GW-32S	GW33S-012004
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				09/20/05	05/18/06	11/06/06	05/25/07	01/20/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	19 U	NA	25 U	6.7 U
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	1,800 U	NA	3,000 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	140 U
Proactinium 234M (Soluble)	PCI/L	-	-	NA	1,300 U	NA	1,700 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	300 U
Potassium 40 (Insoluble)	PCI/L	-	-	NA	260 U	NA	190 U	11 U
Potassium 40 (Soluble)	PCI/L	-	-	NA	130 U	NA	270 U	52 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	21 U	NA	18 U	0.96 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	11 U	NA	15 U	3.8 U
Thorium 234 (Insoluble)	PCI/L	-	401	NA	160 U	NA	140 U	40 U
Thorium 234 (Soluble)	PCI/L	-	401	NA	100 U	NA	150 U	180 U
Uranium 235 (Insoluble)	PCI/L	-	-	NA	51 U	NA	40 U	0.84 U
Uranium 235 (Soluble)	PCI/L	-	-	NA	37 U	NA	47 U	3.7 U
Zinc 65 (Insoluble)	PCI/L	-	-	NA	38 U	NA	42 U	0.85 U
Zinc 65 (Soluble)	PCI/L	-	-	NA	20 U	NA	28 U	5.6 U

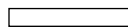
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-33S	GW-33S	GW-33S	GW-33S	GW-33S
Sample ID				GW-33S	GW-33S	GW-33S	GW-33S	GW-33S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/01/04	05/04/05	09/21/05	05/16/06	11/07/06
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.0016 U	0.0012 U	0.0053 U	0.00086 U	0.005 U
2,3,7,8-TCDF	NG/L	0.007	-	0.0018 U	0.001 U	0.0053 U	0.00066 U	0.005 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	NA	2.944 U	NA	54 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	NA	10.92 U	NA	55 UR	NA
Barium 133 (Insoluble)	PCI/L	-	1520	NA	0.5045 U	NA	18 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	NA	2.747 U	NA	12 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	NA	5.646 U	NA	130 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	NA	16.47 U	NA	210 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	NA	1.26 U	NA	38 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	NA	5.492 U	NA	35 U	NA
Cesium 134 (Insoluble)	PCI/L	-	80	NA	0.7378 U	NA	17 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	NA	1.864 U	NA	11 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	NA	0.6106 U	NA	20 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	NA	2.638 U	NA	13 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	NA	1.106 U	NA	21 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	NA	2.882 U	NA	20 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	NA	0.9739 U	NA	24 U	NA
Lead 212 (Soluble)	PCI/L	-	123	NA	5.57 U	NA	21 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	NA	1.208 U	NA	33 U	NA

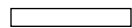
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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-33S	GW-33S	GW-33S	GW-33S	GW-33S
Sample ID				GW-33S	GW-33S	GW-33S	GW-33S	GW-33S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				10/01/04	05/04/05	09/21/05	05/16/06	11/07/06
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	NA	5.454 U	NA	26 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	NA	91.1 U	NA	2,000 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	NA	320.4 U	NA	1,600 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	NA	12.88 U	NA	260 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	NA	28.75 U	NA	190 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	NA	0.7581 U	NA	19 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	NA	2.475 U	NA	16 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	NA	36.95 U	NA	140 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	NA	87.67 U	NA	150 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	NA	0.6154 U	NA	50 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	NA	2.909 U	NA	55 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	NA	1.784 U	NA	27 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	NA	5.19 U	NA	33 U	NA

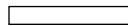
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-33S	GW-34S	GW-34S	GW-34S	GW-34S
Sample ID				GW-33S	GW-34S-012004	GW-34S	GW-34S	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	01/20/04	09/29/04	05/04/05	09/21/05
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.000334 U	0.011 U	0.0053 U	0.0012 U	0.0051 U
2,3,7,8-TCDF	NG/L	0.007	-	0.000296 U	0.011 U	0.003 U	0.0015 U	0.0051 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	74 U	3.7 U	NA	3.547 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	45 U	14 U	NA	13.73 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	20 U	0.72 U	NA	0.6015 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	13 U	8.2 U	NA	2.641 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	150 U	6.1 U	NA	5.313 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	93 U	20 U	NA	13.96 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	52 U	1.8 U	NA	1.316 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	29 U	33.8 ± 1.70E+01	NA	5.342 U	NA
Cesium 134 (Insoluble)	PCI/L	-	80	22 U	4.0 U	NA	0.5887 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	13 U	3.4 U	NA	1.809 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	19 U	0.52 U	NA	0.6832 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	13 U	1.1 U	NA	2.407 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	25 U	0.84 U	NA	1.045 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	15 U	3.5 U	NA	2.826 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	37 U	1.4 U	NA	2.075 U	NA
Lead 212 (Soluble)	PCI/L	-	123	16 U	4.9 U	NA	5.488 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	36 U	1.7 U	NA	1.32 U	NA

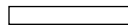
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Concentration Exceeds (2)

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-33S	GW-34S	GW-34S	GW-34S	GW-34S
Sample ID				GW-33S	GW-34S-012004	GW-34S	GW-34S	GW-34S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/25/07	01/20/04	09/29/04	05/04/05	09/21/05
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	22 U	6.6 U	NA	4.617 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	3,000 U	NA	NA	102.1 U	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	120 U	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	1,900 U	NA	NA	329 U	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	400 U	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	330 U	32.1 ± 1.90E+01	NA	12.84 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	190 U	62 U	NA	52.31 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	21 U	1.4 U	NA	0.7422 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	12 U	3.2 U	NA	2.984 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	180 U	39 U	NA	97.59 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	280 U	180 U	NA	101.1 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	77 U	0.8 U	NA	0.6826 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	58 U	3.9 U	NA	2.498 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	42 U	0.42 U	NA	1.476 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	33 U	5.8 U	NA	5.653 U	NA

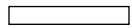
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

J+ - The analyte was positively identified, the quantitation is an estimation with possible high bias.

Detection Limits shown are PQL

Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

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				05/16/06	11/09/06	05/23/07	01/20/04	10/01/04
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.00059 U	0.005 U	0.000463 U	0.010 U	0.0031 U
2,3,7,8-TCDF	NG/L	0.007	-	0.00047 U	0.005 U	0.000436 U	0.010 U	0.0012 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	60 U	NA	80 U	3.3 U	NA
Actinium 228 (Soluble)	PCI/L	-	3270	57 U	NA	51 U	12 U	NA
Barium 133 (Insoluble)	PCI/L	-	1520	17 U	NA	22 U	0.48 U	NA
Barium 133 (Soluble)	PCI/L	-	1520	12 U	NA	12 U	8.8 U	NA
Bismuth 212 (Insoluble)	PCI/L	-	-	110 U	NA	140 U	8.0 U	NA
Bismuth 212 (Soluble)	PCI/L	-	-	190 U	NA	92 U	18 U	NA
Bismuth 214 (Insoluble)	PCI/L	-	18900	45 U	NA	51 U	1.8 U	NA
Bismuth 214 (Soluble)	PCI/L	-	18900	29 U	NA	28 U	5.3 U	NA
Cesium 134 (Insoluble)	PCI/L	-	80	15 U	NA	19 U	4.0 U	NA
Cesium 134 (Soluble)	PCI/L	-	80	12 U	NA	12 U	2.6 U	NA
Cesium 137 (Insoluble)	PCI/L	-	200	15 U	NA	18 U	0.58 U	NA
Cesium 137 (Soluble)	PCI/L	-	200	14 U	NA	12 U	1.4 U	NA
Cobalt 60 (Insoluble)	PCI/L	-	100	15 U	NA	9.6 U	0.84 U	NA
Cobalt 60 (Soluble)	PCI/L	-	100	15 U	NA	10 U	3.5 U	NA
Lead 212 (Insoluble)	PCI/L	-	123	21 UR	NA	37 U	1.5 U	NA
Lead 212 (Soluble)	PCI/L	-	123	18 U	NA	21 U	4.9 U	NA
Lead 214 (Insoluble)	PCI/L	-	11800	31 U	NA	37 U	1.5 U	NA

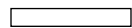
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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 with possible low bias.

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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

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				05/16/06	11/09/06	05/23/07	01/20/04	10/01/04
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	21 U	NA	22 U	5.6 U	NA
Proactinium 234M (Insoluble)	PCI/L	-	-	2,000 U	NA	400 U	NA	NA
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	100 U	NA
Proactinium 234M (Soluble)	PCI/L	-	-	1,500 U	NA	200 U	NA	NA
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	410 U	NA
Potassium 40 (Insoluble)	PCI/L	-	-	280 U	NA	2,200 U	9.9 U	NA
Potassium 40 (Soluble)	PCI/L	-	-	200 U	NA	1,800 U	62 U	NA
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	20 U	NA	24 U	1.0 U	NA
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	12 U	NA	11 U	3.7 U	NA
Thorium 234 (Insoluble)	PCI/L	-	401	140 U	NA	180 U	42 U	NA
Thorium 234 (Soluble)	PCI/L	-	401	160 U	NA	330 U	200 U	NA
Uranium 235 (Insoluble)	PCI/L	-	-	54 U	NA	73 U	0.85 U	NA
Uranium 235 (Soluble)	PCI/L	-	-	52 U	NA	65 U	3.8 U	NA
Zinc 65 (Insoluble)	PCI/L	-	-	36 U	NA	42 U	1.4 U	NA
Zinc 65 (Soluble)	PCI/L	-	-	28 U	NA	28 U	4.4 U	NA

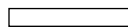
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

(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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Detection Limits shown are PQL

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TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-35S	GW-35S	GW-35S	GW-35S	GW-35S
Sample ID				GW-35S	GW-35S	GW-35S	GW-35S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	11/07/06	05/25/07
Parameter	Units	(1)	(2)					
Dioxins/Furans								
2,3,7,8-TCDD	NG/L	7.00E-04	-	0.00077 U	0.0057 U	0.00083 U	0.0048 U	0.00043 U
2,3,7,8-TCDF	NG/L	0.007	-	0.00099 U	0.0057 U	0.0016	0.0048 U	0.000282 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	2.996 U	NA	57 U	NA	91 U
Actinium 228 (Soluble)	PCI/L	-	3270	18.88 U	NA	60 U	NA	49 U
Barium 133 (Insoluble)	PCI/L	-	1520	0.75328 U	NA	14 U	NA	21 U
Barium 133 (Soluble)	PCI/L	-	1520	2.523 U	NA	14 U	NA	11 U
Bismuth 212 (Insoluble)	PCI/L	-	-	5.982 U	NA	100 U	NA	190 U
Bismuth 212 (Soluble)	PCI/L	-	-	15.9 U	NA	160 U	NA	110 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.3355 U	NA	36 U	NA	48 U
Bismuth 214 (Soluble)	PCI/L	-	18900	14.30 U	NA	30 U	NA	26 ± 1.50E+01
Cesium 134 (Insoluble)	PCI/L	-	80	0.6142 U	NA	15 U	NA	19 U
Cesium 134 (Soluble)	PCI/L	-	80	1.842 U	NA	11 UR	NA	12 U
Cesium 137 (Insoluble)	PCI/L	-	200	0.8254 U	NA	22 U	NA	18 U
Cesium 137 (Soluble)	PCI/L	-	200	2.487 U	NA	13 U	NA	10 U
Cobalt 60 (Insoluble)	PCI/L	-	100	1.059 U	NA	23 U	NA	37 U
Cobalt 60 (Soluble)	PCI/L	-	100	2.591 U	NA	15 U	NA	13 U
Lead 212 (Insoluble)	PCI/L	-	123	1.016 U	NA	17 U	NA	29 U
Lead 212 (Soluble)	PCI/L	-	123	6.94 U	NA	20 U	NA	19 U
Lead 214 (Insoluble)	PCI/L	-	11800	1.34 U	NA	30 U	NA	33 U

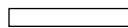
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(2)- Derived from EPA Maximum Contaminant Level (MCL) of 4 millirem/year exposure.

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Concentration Exceeds (2)

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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW*' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

TABLE 1
SUMMARY OF HISTORICAL 2,3,7,8-TCDD, 2,3,7,8-TCDF, and RADIONUCLIDES GROUNDWATER
ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				GW-35S	GW-35S	GW-35S	GW-35S	GW-35S
Sample ID				GW-35S	GW-35S	GW-35S	GW-35S	GW-35S
Matrix				Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/04/05	09/20/05	05/18/06	11/07/06	05/25/07
Parameter	Units	(1)	(2)					
Radionuclides								
Lead 214 (Soluble)	PCI/L	-	11800	3.751 U	NA	24 U	NA	19 U
Proactinium 234M (Insoluble)	PCI/L	-	-	108.9 U	NA	2,500 U	NA	3,300 U
Protactinium 234M (Insoluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Proactinium 234M (Soluble)	PCI/L	-	-	300.8 U	NA	2,100 U	NA	1,600 U
Protactinium 234M (Soluble)	PCI/L	-	-	NA	NA	NA	NA	NA
Potassium 40 (Insoluble)	PCI/L	-	-	12.47 U	NA	190 U	NA	250 U
Potassium 40 (Soluble)	PCI/L	-	-	51.18 U	NA	220 U	NA	180 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	0.7325 U	NA	15 U	NA	19 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.581 U	NA	14 U	NA	10 U
Thorium 234 (Insoluble)	PCI/L	-	401	33.96 U	NA	140 U	NA	200 U
Thorium 234 (Soluble)	PCI/L	-	401	102.7 U	NA	150 U	NA	300 U
Uranium 235 (Insoluble)	PCI/L	-	-	0.6248 U	NA	42 U	NA	63 U
Uranium 235 (Soluble)	PCI/L	-	-	2.581 U	NA	55 U	NA	53 U
Zinc 65 (Insoluble)	PCI/L	-	-	1.599 U	NA	24 UR	NA	55 U
Zinc 65 (Soluble)	PCI/L	-	-	5.129 U	NA	29 U	NA	33 U

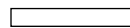
(1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class GA.

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Flags assigned during chemistry validation are shown.



Concentration Exceeds (1)



Concentration Exceeds (2)

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Advanced Selection: HISTGW
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[LOGDATE] >= #1/20/2004# AND [MATRIX] = 'WG' AND ([SACODE] = 'N' OR [SACODE] = 'FD') AND [LOCID] LIKE 'GW' AND ([PARNAME] = '2,3,7,8-TCDD' OR [PARNAME] = '2,3,7,8-TCDF' OR [PRCODE] = 'RW')

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

Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1,2-Trichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1-Dichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1-Dichloroethene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,2-Dichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,2-Dichloroethene (cis)	UG/L	-	-	1 U	1 U	NA	NA	1 U
1,2-Dichloroethene (total)	UG/L	-	-	NA	NA	2.0 U	2.0 U	NA
1,2-Dichloroethene (trans)	UG/L	-	-	1 U	1 U	NA	NA	1 U
1,2-Dichloropropane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,3-Dichloropropene (cis)	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,3-Dichloropropene (trans)	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
2-Hexanone	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
Acetone	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
Benzene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Bromodichloromethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Bromoform	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Bromomethane	UG/L	-	-	2 U	2 U	1.0 U	1.0 U	2 U
Carbon disulfide	UG/L	-	-	1 UJ	1 U	1.0 U	1.0 U	1 UJ

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

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Criteria only shown for detected analytes.

J - The analyte was positively identified, the quantitation is an estimation. J- or J+ - The analyte was positively identified, the quantitation is an estimation with possible low (-) or high (+) bias.

U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value. R - The data is rejected.

D - Result reported from a secondary dilution analysis. NA - Not analyzed. E - High uncertainty was time corrected due to short half-life of isotope.

Detection Limits shown are PQL

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

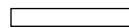
Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	SW-2
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Carbon tetrachloride	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Chlorobenzene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Chloroethane	UG/L	-	-	2 U	2 U	1.0 U	1.0 U	2 U
Chloroform	UG/L	-	-	1 U	1 U	NA	NA	1 U
Chloromethane	UG/L	-	-	2 U	2 U	1.0 U	1.0 U	2 U
Dibromochloromethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Ethylbenzene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
Methylene chloride	UG/L	-	-	2 UJ	2 U	1.0 U	1.0 U	2 UJ
Styrene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Tetrachloroethene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Toluene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Trichloroethene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Vinyl acetate	UG/L	-	-	10 U	10 U	NA	NA	10 U
Vinyl chloride	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Xylene (total)	UG/L	-	-	2 U	NA	3.0 U	3.0 U	2 U
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U
1,2-Dichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U
1,3-Dichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U

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

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



Concentration Exceeds Criteria (2)

Criteria only shown for detected analytes.

J - The analyte was positively identified, the quantitation is an estimation. J- or J+ - The analyte was positively identified, the quantitation is an estimation with possible low (-) or high (+) bias.

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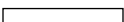
Detection Limits shown are PQL

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

Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,4-Dichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U
2,2'-oxybis(1-Chloropropane)	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2,4,5-Trichlorophenol	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2,4,6-Trichlorophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2,4-Dichlorophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2,4-Dimethylphenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2,4-Dinitrophenol	UG/L	-	-	4 U	4 U	53 U	10 U	4 U
2,4-Dinitrotoluene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2,6-Dinitrotoluene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Chloronaphthalene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Chlorophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2-Methylnaphthalene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Methylphenol (o-cresol)	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Nitroaniline	UG/L	-	-	2 U	2 U	53 U	10 U	2 U
2-Nitrophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
3&4-Methylphenol	UG/L	-	-	4 U	4 U	NA	NA	4 U
3,3'-Dichlorobenzidine	UG/L	-	-	2 U	2 U	21 U	5 U	2 U
3-Nitroaniline	UG/L	-	-	2 U	2 U	53 U	10 U	2 U
4,6-Dinitro-2-methylphenol	UG/L	-	-	4 U	4 U	53 U	10 U	4 U
4-Bromophenyl-phenylether	UG/L	-	-	2 U	2 U	10 U	5 U	2 U

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

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PFOHL BROTHERS LANDFILL SITE

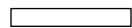
Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	SW-2
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
4-Chloro-3-methylphenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
4-Chloroaniline	UG/L	-	-	2 U	2 UJ	10 U	5 U	2 U
4-Chlorophenyl-phenylether	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
4-Methylphenol (p-cresol)	UG/L	-	-	NA	NA	10 U	5 U	NA
4-Nitroaniline	UG/L	-	-	2 U	2 U	53 U	NA	2 U
4-Nitrophenol	UG/L	-	-	4 U	4 U	53 U	10 U	4 U
Acenaphthene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Acenaphthylene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Anthracene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Benzidine	UG/L	-	-	R	R	NA	NA	R
Benzo(a)anthracene	UG/L	0.03	-	2 U	2 U	10 U	0.3 J	2 U
Benzo(a)pyrene	UG/L	0.0012	-	2 U	2 U	10 U	0.3 J	2 U
Benzo(b)fluoranthene	UG/L	-	-	2 U	2 U	1 J	0.4 J	2 U
Benzo(g,h,i)perylene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Benzo(k)fluoranthene	UG/L	-	-	2 U	2 U	1 J	5 U	2 U
Benzoic acid	UG/L	-	-	10 U	10 UJ	NA	NA	10 U
Benzyl alcohol	UG/L	-	-	2 U	2 U	NA	NA	2 U
bis(2-Chloroethoxy)methane	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
bis(2-Chloroethyl)ether	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
bis(2-Ethylhexyl)phthalate	UG/L	0.6	-	2 U	2 U	10 U	5 U	2 U

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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Butylbenzylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Carbazole	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Chrysene	UG/L	-	-	2 U	2 U	10 U	0.3 J	2 U
Dibenz(a,h)anthracene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Dibenzofuran	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Diethylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Dimethylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Di-n-butylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Di-n-octylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Fluoranthene	UG/L	-	-	2 U	2 U	0.7 J	0.5 J	2 U
Fluorene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Hexachlorobenzene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Hexachlorobutadiene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Hexachlorocyclopentadiene	UG/L	-	-	4 U	4 U	47 U	5 U	4 U
Hexachloroethane	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Indeno(1,2,3-cd)pyrene	UG/L	-	-	2 U	2 U	10 U	0.2 J	2 U
Isophorone	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Naphthalene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Nitrobenzene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
N-Nitrosodimethylamine	UG/L	-	-	2 U	2 U	NA	NA	2 U

Criteria (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. * - Criteria ba
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PFOHL BROTHERS LANDFILL SITE

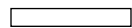
Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	SW-2
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
N-Nitroso-di-n-propylamine	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
N-Nitrosodiphenylamine	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Pentachlorophenol	UG/L	-	-	4 U	4 U	53 U	10 U	4 U
Phenanthrene	UG/L	5	-	2 U	2 U	10 U	0.2 J	2 U
Phenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
Pyrene	UG/L	4.6	-	2 U	2 U	0.6 J	0.4 J	2 U
Polychlorinated Biphenyls								
Aroclor 1016	UG/L	-	-	0.050 U	0.05 U	0.60 U	NA	0.050 U
Aroclor 1221	UG/L	-	-	0.050 U	0.05 U	0.60 U	NA	0.050 U
Aroclor 1232	UG/L	-	-	0.050 U	0.05 U	0.60 U	NA	0.050 U
Aroclor 1242	UG/L	-	-	0.050 U	0.05 U	0.60 U	NA	0.050 U
Aroclor 1248	UG/L	-	-	0.050 U	0.05 U	0.60 U	NA	0.050 U
Aroclor 1254	UG/L	-	-	0.050 U	0.05 U	0.60 U	NA	0.050 U
Aroclor 1260	UG/L	-	-	0.050 U	0.05 U	0.60 U	NA	0.050 U
Metals								
Aluminum	MG/L	0.1 ionic	-	0.663 J+	0.295 J+	2.6	3.4	0.079 J+
Antimony	MG/L	-	-	0.005 U	0.005 U	0.020 U	0.020 U	0.005 U
Arsenic	MG/L	0.15	-	0.008 U	0.009 U	0.010 U	0.010 U	0.008 U
Barium	MG/L	-	-	0.054	0.055	0.088	0.075	0.049
Beryllium	MG/L	-	-	0.001 U	0.001 U	0.0020 U	0.0020 U	0.001 U

Criteria (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. * - Criteria based on
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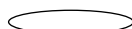
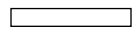
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SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cadmium	MG/L	-	-	0.001 U	0.001 U	0.0010 U	0.0010 U	0.001 U
Calcium	MG/L	-	-	69.1	70.2	75.3	66.4	74.7
Chromium	MG/L	193 *	-	0.005 U	0.005 U	0.0051	0.0063	0.005 U
Cobalt	MG/L	0.005	-	0.005 U	0.005 U	0.0040 U	0.0040 U	0.005 U
Copper	MG/L	24.3 *	-	0.009 U	0.009 U	0.010 U	0.011	0.009 U
Iron	MG/L	0.3	-	1.49	1.06	6.5	5.9	0.540
Lead	MG/L	13.1 *	-	0.003 U	0.003 U	0.015	0.022	0.003 U
Magnesium	MG/L	-	-	13.9	15.5	17.5	16.4	15.3
Manganese	MG/L	-	-	0.126	0.09	0.27 J+	0.17	0.060
Mercury	MG/L	-	-	0.0002 U	0.0002 U	0.00020 U	0.00020 U	0.0002 U
Nickel	MG/L	140 *	-	0.005 U	0.005 U	0.010 U	0.010 U	0.005 U
Potassium	MG/L	-	-	3.77	3.76	3.6 J+	3.7	3.58
Selenium	MG/L	-	-	0.003 U	0.003 U	0.015 U	0.015 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.003 U	0.015 U	0.015 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.003 U	0.015 U	0.015 U	0.003 U
Silver	MG/L	1.00E-04 ionic	-	R	R	0.0030 U	0.0030 U	R
Sodium	MG/L	-	-	235	219 D	189	241	237
Thallium	MG/L	-	-	0.002 U	0.002 U	0.020 U	0.020 U	0.002 U
Vanadium	MG/L	0.014 acid soluble	-	0.00181	0.005 U	0.0056	0.0063	0.000542
Zinc	MG/L	223 *	-	0.020	0.039	0.073	0.087	0.013

Criteria (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. * - Criteria based on
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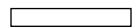
Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	SW-2
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Miscellaneous Parameters								
Cyanide	MG/L	-	-	0.010 U	0.01 U	0.01 U	0.010 U	0.010 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.1 U	2.355 U	47 U	82 U ± 6.20E+01	3 U
Actinium 228 (Soluble)	PCI/L	-	3270	10 U	10.74 U	38 U	44 U ± 2.50E+01	11 U
Barium 133 (Insoluble)	PCI/L	-	1520	0.29 U	0.3921 U ± 5.81E-01	14 U	25 U ± 1.40E+01	0.35 U
Barium 133 (Soluble)	PCI/L	-	1520	1.4 U	2.439 U	R	14 U ± 8.10E+00	1.7 U
Bismuth 212 (Insoluble)	PCI/L	-	-	1.8 U	4.317 U	120 U	170 U ± 9.30E+01	1.5 U
Bismuth 212 (Soluble)	PCI/L	-	-	11 U	17.8 U	130 U	95 U ± 5.10E+01	6.7 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.3 U	4.3153 U ± 3.32E+00	29 U	56 U ± 3.70E+01	1.3 U
Bismuth 214 (Soluble)	PCI/L	-	18900	4.6 U	8.7184 U ± 6.72E+00	R	26 U ± 6.80E+01	5.5 U
Cesium 134 (Insoluble)	PCI/L	-	80	0.41 U	0.36275 U ± 3.26E-01	12 U	21 U ± 1.10E+01	0.43 U
Cesium 134 (Soluble)	PCI/L	-	80	1.5 U	2.135 U	8.6 U	11 U ± 5.80E+00	1.5 U
Cesium 137 (Insoluble)	PCI/L	-	200	0.69 U	0.3449 U	16 U	19 U ± 1.10E+01	0.66 U
Cesium 137 (Soluble)	PCI/L	-	200	2.3 U	2.315 U	9.0 U	15 U ± 8.40E+00	2.1 U
Cobalt 60 (Insoluble)	PCI/L	-	100	0.39 U	0.7092 U	16 U	28 U ± 1.60E+01	0.33 U
Cobalt 60 (Soluble)	PCI/L	-	100	1.2 U	3.196 U	10 U	14 U ± 7.40E+00	1.2 U
Lead 212 (Insoluble)	PCI/L	-	123	1 U	1.4041 U ± 1.89E+00	16 U	32 U ± 1.90E+01	1.1 U
Lead 212 (Soluble)	PCI/L	-	123	4 U	3.883 U	13 U	18 U ± 1.60E+01	6.2 U
Lead 214 (Insoluble)	PCI/L	-	11800	1.4 U	1.891 U ± 2.05E+00	24 U	50 U ± 4.30E+01	1.4 U
Lead 214 (Soluble)	PCI/L	-	11800	4.5 U	4.843 U	17 U	23 U ± 1.30E+01	4.8 U

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Location ID				SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID				SW-1	SW-1	SW-01	SW-01	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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Radionuclides								
Proactinium 234M (Insoluble)	PCI/L	-	-	65 U	72.26 U	1,600 U	2,700 U ± 1.40E+03	76 U
Proactinium 234M (Soluble)	PCI/L	-	-	240 U	471.1 U	1,300 U	1,500 U ± 8.20E+02	250 U
Potassium 40 (Insoluble)	PCI/L	-	-	12 U	10.07 U	150 U	450 U ± 6.00E+02	16 U
Potassium 40 (Soluble)	PCI/L	-	-	44 U	35.48 U	140 U	200 U ± 2.40E+03	46 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	0.68 U	1.2392 U ± 1.38E+00	14 U	30 U ± 1.10E+02	0.71 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.8 U	2.649 U	9.0 U	10 U ± 4.50E+03	2.8 U
Thorium 234 (Insoluble)	PCI/L	-	401	25 U	29.34 U ± 4.36E+01	R	230 U ± 1.60E+02	28 U
Thorium 234 (Soluble)	PCI/L	-	401	86 U	101.5 U	100 U	130 U ± 7.30E+01	87 U
Uranium 235 (Insoluble)	PCI/L	-	-	0.57 U	0.91668 U ± 1.41E+00	40 U	72 U ± 3.80E+01	0.59 U
Uranium 235 (Soluble)	PCI/L	-	-	2.4 U	2.48 U	34 U	50 U ± 2.90E+01	2.3 U
Zinc 65 (Insoluble)	PCI/L	-	-	1.2 U	0.8347 U	22 U	57 U ± 3.30E+01	1.3 U
Zinc 65 (Soluble)	PCI/L	-	-	4.6 U	5.553 U	18 U	40 U ± 2.30E+01	3.9 U

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

Flags assigned during chemistry validation are shown.

	Concentration Exceeds Criteria (1)
	Concentration Exceeds Criteria (2)

Criteria only shown for detected analytes.

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D - Result reported from a secondary dilution analysis. NA - Not analyzed. E - High uncertainty was time corrected due to short half-life of isotope.

Detection Limits shown are PQL

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

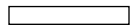
Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1-Dichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1-Dichloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,2-Dichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,2-Dichloroethene (cis)	UG/L	-	-	1 U	NA	NA	1 U	1 U
1,2-Dichloroethene (total)	UG/L	-	-	NA	2.0 U	2.0 U	NA	NA
1,2-Dichloroethene (trans)	UG/L	-	-	1 U	NA	NA	1 U	1 U
1,2-Dichloropropane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,3-Dichloropropene (cis)	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,3-Dichloropropene (trans)	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
2-Hexanone	UG/L	-	-	10 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	UG/L	-	-	10 U	5.0 U	5.0 U	10 U	10 U
Acetone	UG/L	-	-	10 U	5.0 U	5.0 U	10 U	10 U
Benzene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Bromodichloromethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Bromoform	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Bromomethane	UG/L	-	-	2 U	1.0 U	1.0 U	2 U	2 U
Carbon disulfide	UG/L	-	-	1 U	1.0 U	1.0 U	1 UJ	1 UJ

Criteria (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. * - Criteria ba
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Flags assigned during chemistry validation are shown.



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PFOHL BROTHERS LANDFILL SITE

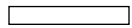
Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Volatile Organic Compounds								
Carbon tetrachloride	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Chlorobenzene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Chloroethane	UG/L	-	-	2 U	1.0 U	1.0 U	2 U	2 U
Chloroform	UG/L	-	-	2	NA	NA	1 U	1 U
Chloromethane	UG/L	-	-	2 U	1.0 U	1.0 U	2 U	2 U
Dibromochloromethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Ethylbenzene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	-	10 U	5.0 U	5.0 U	10 U	10 U
Methylene chloride	UG/L	-	-	2 U	1.0 U	1.0 U	2 UJ	2 UJ
Styrene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Tetrachloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Toluene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Trichloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Vinyl acetate	UG/L	-	-	10 U	NA	NA	10 U	10 U
Vinyl chloride	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Xylene (total)	UG/L	-	-	NA	3.0 U	3.0 U	2 U	2 U
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U
1,2-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U
1,3-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U

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

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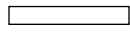
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SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
1,4-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U
2,2'-oxybis(1-Chloropropane)	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2,4,5-Trichlorophenol	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2,4,6-Trichlorophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2,4-Dichlorophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2,4-Dimethylphenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2,4-Dinitrophenol	UG/L	-	-	4 U	51 U	10 U	4 U	4 U
2,4-Dinitrotoluene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2,6-Dinitrotoluene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Chloronaphthalene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Chlorophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2-Methylnaphthalene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Methylphenol (o-cresol)	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Nitroaniline	UG/L	-	-	2 U	51 U	10 U	2 U	2 U
2-Nitrophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
3&4-Methylphenol	UG/L	-	-	4 U	NA	NA	4 U	4 U
3,3'-Dichlorobenzidine	UG/L	-	-	2 U	20 U	5 U	2 U	2 U
3-Nitroaniline	UG/L	-	-	2 U	51 U	10 U	2 U	2 U
4,6-Dinitro-2-methylphenol	UG/L	-	-	4 U	51 U	10 U	4 U	4 U
4-Bromophenyl-phenylether	UG/L	-	-	2 U	10 U	5 U	2 U	2 U

Criteria (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. * - Criteria ba
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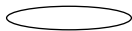
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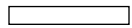
Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
4-Chloro-3-methylphenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
4-Chloroaniline	UG/L	-	-	2 UJ	10 U	5 U	2 U	2 U
4-Chlorophenyl-phenylether	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
4-Methylphenol (p-cresol)	UG/L	-	-	NA	10 U	5 U	NA	NA
4-Nitroaniline	UG/L	-	-	2 U	51 U	NA	2 U	2 U
4-Nitrophenol	UG/L	-	-	4 U	51 U	10 U	4 U	4 U
Acenaphthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Acenaphthylene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Anthracene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzidine	UG/L	-	-	R	NA	NA	R	R
Benzo(a)anthracene	UG/L	0.03	-	2 U	10 U	0.2 J	2 U	2 U
Benzo(a)pyrene	UG/L	0.0012	-	2 U	10 U	5 U	2 U	2 U
Benzo(b)fluoranthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzo(g,h,i)perylene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzo(k)fluoranthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzoic acid	UG/L	-	-	10 UJ	NA	NA	10 U	10 U
Benzyl alcohol	UG/L	-	-	2 U	NA	NA	2 U	2 U
bis(2-Chloroethoxy)methane	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
bis(2-Chloroethyl)ether	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
bis(2-Ethylhexyl)phthalate	UG/L	0.6	-	2 U	10 U	5 U	2 U	2 U

Criteria (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. * - Criteria ba
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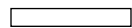
Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
Butylbenzylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Carbazole	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Chrysene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Dibenz(a,h)anthracene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Dibenzofuran	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Diethylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Dimethylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Di-n-butylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Di-n-octylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Fluoranthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Fluorene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Hexachlorobenzene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Hexachlorobutadiene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Hexachlorocyclopentadiene	UG/L	-	-	4 U	46 U	5 U	4 U	4 U
Hexachloroethane	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Indeno(1,2,3-cd)pyrene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Isophorone	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Naphthalene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Nitrobenzene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
N-Nitrosodimethylamine	UG/L	-	-	2 U	NA	NA	2 U	2 U

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

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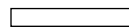
Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Semivolatile Organic Compounds								
N-Nitroso-di-n-propylamine	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
N-Nitrosodiphenylamine	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Pentachlorophenol	UG/L	-	-	4 U	51 U	10 U	4 U	4 U
Phenanthrene	UG/L	5	-	2 U	10 U	5 U	2 U	2 U
Phenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
Pyrene	UG/L	4.6	-	2 U	10 U	5 U	2 U	2 U
Polychlorinated Biphenyls								
Aroclor 1016	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.050 U
Aroclor 1221	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.050 U
Aroclor 1232	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.050 U
Aroclor 1242	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.050 U
Aroclor 1248	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.050 U
Aroclor 1254	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.050 U
Aroclor 1260	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.050 U
Metals								
Aluminum	MG/L	0.1 ionic	-	0.056 J+	0.20 U	0.20 U	0.032 J+	0.629 J+
Antimony	MG/L	-	-	0.005 U	0.020 U	0.020 U	0.005 U	0.005 U
Arsenic	MG/L	0.15	-	0.009 U	0.010 U	0.010 U	0.008 U	0.008 U
Barium	MG/L	-	-	0.048	0.060	0.052	0.051	0.058
Beryllium	MG/L	-	-	0.001 U	0.0020 U	0.0020 U	0.001 U	0.001 U

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

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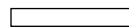
Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Metals								
Cadmium	MG/L	-	-	0.001 U	0.0010 U	0.0010 U	0.001 U	0.001 U
Calcium	MG/L	-	-	67.8	79.2	78.1	78.6	86.2
Chromium	MG/L	193 *	-	0.005 U	0.0040 U	0.0040 U	0.005 U	0.005 U
Cobalt	MG/L	0.005	-	0.005 U	0.0040 U	0.0040 U	0.005 U	0.005 U
Copper	MG/L	24.3 *	-	0.009 U	0.010 U	0.010 U	0.009 U	0.009 U
Iron	MG/L	0.3	-	0.258	0.41	0.50	0.485	1.24
Lead	MG/L	13.1 *	-	0.003 U	0.0050 U	0.0050 U	0.003 U	0.003
Magnesium	MG/L	-	-	15.0	17.6	17.2	16.1	17.9
Manganese	MG/L	-	-	0.032	0.10 J+	0.065	0.066	0.107
Mercury	MG/L	-	-	0.0002 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U
Nickel	MG/L	140 *	-	0.005 U	0.010 U	0.010 U	0.005 U	0.005 U
Potassium	MG/L	-	-	3.62	2.8 J+	2.5	3.69	3.97
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.003 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.003 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.003 U	0.003 U
Silver	MG/L	1.00E-04 ionic	-	R	0.0030 U	0.0030 U	R	R
Sodium	MG/L	-	-	190	185	197	243	248
Thallium	MG/L	-	-	0.002 U	0.020 U	0.020 U	0.002 U	0.002 U
Vanadium	MG/L	0.014 acid soluble	-	0.005 U	0.0050 U	0.0050 U	0.000486	0.00173
Zinc	MG/L	223 *	-	0.013 U	0.011	0.010 U	0.014	0.027

Criteria (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. * - Criteria based on
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

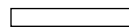
Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Miscellaneous Parameters								
Cyanide	MG/L	-	-	0.01 U	0.01 U	0.010 U	0.010 U	0.010 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.061 U	55 U	60 U ± 3.00E+02	2.9 U	2.7 U
Actinium 228 (Soluble)	PCI/L	-	3270	10.41 U	57 U	48 U ± 6.60E+01	13 U	9.3 U
Barium 133 (Insoluble)	PCI/L	-	1520	0.4984 U	14 U	22 U ± 1.30E+01	0.43 U	0.31 U
Barium 133 (Soluble)	PCI/L	-	1520	2.682 U	12 U	12 U ± 6.90E+00	1.7 U	1.2 U
Bismuth 212 (Insoluble)	PCI/L	-	-	5.279 U	110 U	150 U ± 8.20E+01	2.2 U	2.2 U
Bismuth 212 (Soluble)	PCI/L	-	-	19.65 U	200 U	90 U ± 5.10E+01	11 U	6.3 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.381 U	28 U	50 U ± 3.70E+01	1.6 U	1.4 U
Bismuth 214 (Soluble)	PCI/L	-	18900	4.774 U	32 U	33 U ± 6.40E+01	4.3 U	4.8 U
Cesium 134 (Insoluble)	PCI/L	-	80	0.6354 U	11 U	20 U ± 1.10E+01	0.42 U	0.37 U
Cesium 134 (Soluble)	PCI/L	-	80	2.529 U	11 U	12 U ± 6.40E+00	5.90 J ± 3.50E+00	3.80 J ± 2.20E+00
Cesium 137 (Insoluble)	PCI/L	-	200	0.6213 U	14 U	18 U ± 1.00E+01	0.66 U	0.67 U
Cesium 137 (Soluble)	PCI/L	-	200	2.218 U	17 U	17 U ± 9.40E+00	2.3 U	2.1 U
Cobalt 60 (Insoluble)	PCI/L	-	100	0.9021 U	13 U	26 U ± 1.40E+01	0.39 U	0.39 U
Cobalt 60 (Soluble)	PCI/L	-	100	3.141 U	20 U	15 U ± 8.30E+00	0.88 U	1.2 U
Lead 212 (Insoluble)	PCI/L	-	123	1.008 U	17 U	31 U ± 1.80E+01	1.1 U	1.1 U
Lead 212 (Soluble)	PCI/L	-	123	5.8827 U ± 8.41E+00	17 U	20 U ± 5.00E+01	3.9 U	4.3 U
Lead 214 (Insoluble)	PCI/L	-	11800	1.470 U ± 2.62E+00	23 U	37 U ± 2.00E+01	1.5 U	1.2 U
Lead 214 (Soluble)	PCI/L	-	11800	5.15 U	26 U	25 U ± 1.40E+01	4.6 U	4.8 U

Criteria (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. * - Criteria ba
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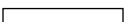
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Location ID				SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID				SW-2	SW-02	SW-02	SW-3	SW-3-DUP
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					Field Duplicate (1-1)
Radionuclides								
Proactinium 234M (Insoluble)	PCI/L	-	-	113.5 U	1,900 U	2,800 U ± 1.50E+03	80 U	78 U
Proactinium 234M (Soluble)	PCI/L	-	-	431.4 U	1,600 U	1,700 U ± 1.00E+03	200 U	210 U
Potassium 40 (Insoluble)	PCI/L	-	-	13.23 U	180 U	310 U ± 4.40E+02	12 U	17 U
Potassium 40 (Soluble)	PCI/L	-	-	37.58 U	190 U	180 U ± 9.70E+01	45 U	48 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	0.7596 U	15 U	21 U ± 1.00E+01	0.73 U	0.74 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.803 U	12 U	10 U ± 2.30E+02	3.1 U	2.2 U
Thorium 234 (Insoluble)	PCI/L	-	401	30.88 U	110 U	180 U ± 1.40E+02	22 U	21 U
Thorium 234 (Soluble)	PCI/L	-	401	148.96 U ± 3.10E+02	120 U	300 U ± 2.00E+02	83 U	95 U
Uranium 235 (Insoluble)	PCI/L	-	-	0.5908 U	42 U	63 U ± 3.70E+01	0.59 U	0.58 U
Uranium 235 (Soluble)	PCI/L	-	-	3.1556 U ± 4.03E+00	46 U	60 U ± 2.10E+02	2.6 U	2.6 U
Zinc 65 (Insoluble)	PCI/L	-	-	1.366 U	19 U	54 U ± 3.10E+01	1.4 U	1.5 U
Zinc 65 (Soluble)	PCI/L	-	-	6.447 U	25 U	22 U ± 1.10E+01	4.8 U	4.3 U

Criteria (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. * - Criteria based on
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PFOHL BROTHERS LANDFILL SITE

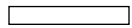
Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1-Dichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,1-Dichloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,2-Dichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,2-Dichloroethene (cis)	UG/L	-	-	1 U	NA	NA	1 U	1 U
1,2-Dichloroethene (total)	UG/L	-	-	NA	2.0 U	2.0 U	NA	NA
1,2-Dichloroethene (trans)	UG/L	-	-	1 U	NA	NA	1 U	1 U
1,2-Dichloropropane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,3-Dichloropropene (cis)	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
1,3-Dichloropropene (trans)	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
2-Hexanone	UG/L	-	-	10 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	UG/L	-	-	10 U	5.0 U	5.0 U	10 U	10 U
Acetone	UG/L	-	-	20	5.0 U	5.0 U	10 U	10 U
Benzene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Bromodichloromethane	UG/L	-	-	1	1.0 U	1.0 U	1 U	1 U
Bromoform	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Bromomethane	UG/L	-	-	2 U	1.0 U	1.0 U	2 U	2 U
Carbon disulfide	UG/L	-	-	1 U	1.0 U	1.0 U	1 UJ	1 U

Criteria (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. * - Criteria ba
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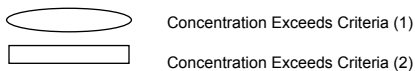
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SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Carbon tetrachloride	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Chlorobenzene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Chloroethane	UG/L	-	-	2 U	1.0 U	1.0 U	2 U	2 U
Chloroform	UG/L	-	-	2	NA	NA	1 U	1 U
Chloromethane	UG/L	-	-	2 U	1.0 U	1.0 U	2 U	2 U
Dibromochloromethane	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Ethylbenzene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	-	10 U	5.0 U	5.0 U	10 U	10 U
Methylene chloride	UG/L	-	-	2 U	1.0 U	1.0 U	2 UJ	2 U
Styrene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Tetrachloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Toluene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Trichloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Vinyl acetate	UG/L	-	-	10 U	NA	NA	10 U	10 U
Vinyl chloride	UG/L	-	-	1 U	1.0 U	1.0 U	1 U	1 U
Xylene (total)	UG/L	-	-	NA	3.0 U	3.0 U	2 U	NA
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U
1,2-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U
1,3-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U

Criteria (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. * - Criteria ba
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PFOHL BROTHERS LANDFILL SITE

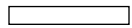
Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,4-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	2 U	2 U
2,2'-oxybis(1-Chloropropane)	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2,4,5-Trichlorophenol	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2,4,6-Trichlorophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2,4-Dichlorophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2,4-Dimethylphenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2,4-Dinitrophenol	UG/L	-	-	4 U	50 U	10 U	4 U	4 U
2,4-Dinitrotoluene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2,6-Dinitrotoluene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Chloronaphthalene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Chlorophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
2-Methylnaphthalene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Methylphenol (o-cresol)	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
2-Nitroaniline	UG/L	-	-	2 U	50 U	10 U	2 U	2 U
2-Nitrophenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
3&4-Methylphenol	UG/L	-	-	4 U	NA	NA	4 U	4 U
3,3'-Dichlorobenzidine	UG/L	-	-	2 U	20 U	5 U	2 U	2 U
3-Nitroaniline	UG/L	-	-	2 U	50 U	10 U	2 U	2 U
4,6-Dinitro-2-methylphenol	UG/L	-	-	4 U	50 U	10 U	4 U	4 U
4-Bromophenyl-phenylether	UG/L	-	-	2 U	10 U	5 U	2 U	2 U

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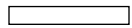
Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
4-Chloro-3-methylphenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
4-Chloroaniline	UG/L	-	-	2 UJ	10 U	5 U	2 U	2 UJ
4-Chlorophenyl-phenylether	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
4-Methylphenol (p-cresol)	UG/L	-	-	NA	10 U	5 U	NA	NA
4-Nitroaniline	UG/L	-	-	2 U	50 U	NA	2 U	2 U
4-Nitrophenol	UG/L	-	-	4 U	50 U	10 U	4 U	4 U
Acenaphthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Acenaphthylene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Anthracene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzidine	UG/L	-	-	R	NA	NA	R	R
Benzo(a)anthracene	UG/L	0.03	-	2 U	10 U	5 U	2 U	2 U
Benzo(a)pyrene	UG/L	0.0012	-	2 U	10 U	5 U	2 U	2 U
Benzo(b)fluoranthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzo(g,h,i)perylene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzo(k)fluoranthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Benzoic acid	UG/L	-	-	10 UJ	NA	NA	10 U	10 UJ
Benzyl alcohol	UG/L	-	-	2 U	NA	NA	2 U	2 U
bis(2-Chloroethoxy)methane	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
bis(2-Chloroethyl)ether	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
bis(2-Ethylhexyl)phthalate	UG/L	0.6	-	2 U	10 U	5 U	2 U	2 U

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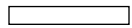
Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Butylbenzylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Carbazole	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Chrysene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Dibenz(a,h)anthracene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Dibenzofuran	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Diethylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Dimethylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Di-n-butylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Di-n-octylphthalate	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Fluoranthene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Fluorene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Hexachlorobenzene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Hexachlorobutadiene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Hexachlorocyclopentadiene	UG/L	-	-	4 U	45 U	5 U	4 U	4 U
Hexachloroethane	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Indeno(1,2,3-cd)pyrene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Isophorone	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Naphthalene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Nitrobenzene	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
N-Nitrosodimethylamine	UG/L	-	-	2 U	NA	NA	2 U	2 U

Criteria (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. * - Criteria ba
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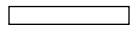
Detection Limits shown are PQL

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

Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
N-Nitroso-di-n-propylamine	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
N-Nitrosodiphenylamine	UG/L	-	-	2 U	10 U	5 U	2 U	2 U
Pentachlorophenol	UG/L	-	-	4 U	50 U	10 U	4 U	4 U
Phenanthrene	UG/L	5	-	2 U	10 U	5 U	2 U	2 U
Phenol	UG/L	-	-	4 U	10 U	5 U	4 U	4 U
Pyrene	UG/L	4.6	-	2 U	10 U	5 U	2 U	2 U
Polychlorinated Biphenyls								
Aroclor 1016	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.05 U
Aroclor 1221	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.05 U
Aroclor 1232	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.05 U
Aroclor 1242	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.05 U
Aroclor 1248	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.05 U
Aroclor 1254	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.05 U
Aroclor 1260	UG/L	-	-	0.05 U	0.50 U	NA	0.050 U	0.05 U
Metals								
Aluminum	MG/L	0.1 ionic	-	0.151 J+	0.20 U	0.20 U	0.353 J+	0.025 U
Antimony	MG/L	-	-	0.005 U	0.020 U	0.020 U	0.005 U	0.005 U
Arsenic	MG/L	0.15	-	0.009 U	0.010 U	0.010 U	0.008 U	0.009 U
Barium	MG/L	-	-	0.051	0.058	0.053	0.043	0.038
Beryllium	MG/L	-	-	0.001 U	0.0020 U	0.0020 U	0.001 U	0.001 U

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

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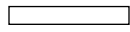
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cadmium	MG/L	-	-	0.001 U	0.0010 U	0.0010 U	0.001 U	0.001 U
Calcium	MG/L	-	-	72.9	78.9	77.5	78.9	77.3
Chromium	MG/L	193 *	-	0.005 U	0.0040 U	0.0040 U	0.005 U	0.005 U
Cobalt	MG/L	0.005	-	0.005 U	0.0040 U	0.0040 U	0.005 U	0.005 U
Copper	MG/L	24.3 *	-	0.009 U	0.010 U	0.010 U	0.009 U	0.009 U
Iron	MG/L	0.3	-	0.299	0.39	0.63	2.48	0.33
Lead	MG/L	13.1 *	-	0.003 U	0.0050 U	0.0050 U	0.019	0.003 U
Magnesium	MG/L	-	-	15.9	17.6	17.0	16.6	17.0
Manganese	MG/L	-	-	0.038	0.13 J+	0.13	0.595	0.056
Mercury	MG/L	-	-	0.0002 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U
Nickel	MG/L	140 *	-	0.005 U	0.010 U	0.010 U	0.005 U	0.005 U
Potassium	MG/L	-	-	3.65	2.9 J+	2.5	3.75	2.75
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.003 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.003 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.003 U	0.003 U
Silver	MG/L	1.00E-04 ionic	-	R	0.0030 U	0.0030 U	R	R
Sodium	MG/L	-	-	207	176	190	176	153
Thallium	MG/L	-	-	0.002 U	0.020 U	0.020 U	0.002 U	0.002 U
Vanadium	MG/L	0.014 acid soluble	-	0.005 U	0.0050 U	0.0050 U	0.00132	0.005 U
Zinc	MG/L	223 *	-	0.017	0.014	0.010 U	0.022	0.013 U

Criteria (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. * - Criteria ba
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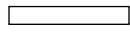
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Miscellaneous Parameters								
Cyanide	MG/L	-	-	0.01 U	0.01 U	0.010 U	0.010 U	0.01 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.168 U	58 U	90 U ± 3.00E+02	3.2 U	3.168 U
Actinium 228 (Soluble)	PCI/L	-	3270	10.37 U	66 U	50 U ± 2.70E+01	9.9 U	10.22 U
Barium 133 (Insoluble)	PCI/L	-	1520	0.5533 U	16 U	28 U ± 1.60E+01	0.33 U	0.59 U
Barium 133 (Soluble)	PCI/L	-	1520	2.404 U	13 U	11 U ± 6.10E+00	2 U	2.173 U
Bismuth 212 (Insoluble)	PCI/L	-	-	6.01 U	130 U	130 U ± 6.70E+01	0.6 U	5.156 U
Bismuth 212 (Soluble)	PCI/L	-	-	19.7 U	190 U	110 U ± 6.10E+01	9.6 U	17.2 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.296 U	29 U	48 U ± 4.60E+01	1.5 U	1.317 U
Bismuth 214 (Soluble)	PCI/L	-	18900	5.338 U	30 U	27 U ± 1.40E+01	4.9 U	4.641 U
Cesium 134 (Insoluble)	PCI/L	-	80	0.641 U	14 U	20 U ± 1.10E+01	0.44 U	0.665 U
Cesium 134 (Soluble)	PCI/L	-	80	2.275 U	12 U	12 U ± 7.00E+00	1.3 U	2.222 U
Cesium 137 (Insoluble)	PCI/L	-	200	0.6988 U	24 U	20 U ± 1.10E+01	0.54 U	0.725 U
Cesium 137 (Soluble)	PCI/L	-	200	2.376 U	12 U	12 U ± 7.10E+00	2.4 U	2.668 U
Cobalt 60 (Insoluble)	PCI/L	-	100	1.168 U	17 U	20 U ± 9.97E+00	0.39 U	1.054 U
Cobalt 60 (Soluble)	PCI/L	-	100	3.17 U	20 U	13 U ± 6.80E+00	1.3 U	3.071 U
Lead 212 (Insoluble)	PCI/L	-	123	1.4679 U ± 2.23E+00	17 U	34 U ± 2.00E+01	1.1 U	1.63 U ± 2.17E+00
Lead 212 (Soluble)	PCI/L	-	123	4.124 U	19 U	18 U ± 1.40E+01	4.1 U	4.95 U ± 8.55E+00
Lead 214 (Insoluble)	PCI/L	-	11800	1.262 U	25 U	38 U ± 2.20E+01	1.3 U	1.338 U
Lead 214 (Soluble)	PCI/L	-	11800	5.138 U	26 U	24 U ± 4.50E+01	4.8 U	5.079 U

Criteria (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. * - Criteria ba
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID				SW-3	SW-03	SW-03	SW-4	SW-4
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)					
Radionuclides								
Proactinium 234M (Insoluble)	PCI/L	-	-	104.5 U	2,300 U	2,700 U ± 1.40E+03	63 U	92.41 U
Proactinium 234M (Soluble)	PCI/L	-	-	324.1 U	1,800 U	1,900 U ± 1.10E+03	250 U	283.9 U
Potassium 40 (Insoluble)	PCI/L	-	-	12.84 U	250 U	370 U ± 5.40E+02	13 U	12.33 U
Potassium 40 (Soluble)	PCI/L	-	-	41.87 U	230 U	160 U ± 9.30E+01	35 U	34.34 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	0.7459 U	17 U	25 U ± 1.80E+01	0.66 U	0.726 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.82 U	14 U	15 U ± 9.20E+00	2.7 U	2.767 U
Thorium 234 (Insoluble)	PCI/L	-	401	30.07 U	130 U	200 U ± 1.90E+02	26 U	31.47 U
Thorium 234 (Soluble)	PCI/L	-	401	101.33 U ± 1.73E+02	160 U	150 U ± 1.00E+02	83 U	96.67 U
Uranium 235 (Insoluble)	PCI/L	-	-	0.93214 U ± 1.45E+00	57 U	75 U ± 1.60E+01	0.62 U	0.651 U
Uranium 235 (Soluble)	PCI/L	-	-	3.5604 U ± 4.52E+00	51 U	50 U ± 2.20E+02	2.4 U	3.32 U ± 5.07E+00
Zinc 65 (Insoluble)	PCI/L	-	-	1.71 U	35 U	45 U ± 2.50E+01	1.5 U	1.342 U
Zinc 65 (Soluble)	PCI/L	-	-	5.487 U	29 U	30 U ± 1.60E+01	4.2 U	5.407 U

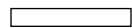
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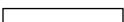
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,1,2-Trichloroethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,1-Dichloroethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,1-Dichloroethene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,2-Dichloroethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,2-Dichloroethene (cis)	UG/L	-	-	NA	NA	NA	1 U	1 U
1,2-Dichloroethene (total)	UG/L	-	-	2.0 U	2.0 U	2.0 U	NA	NA
1,2-Dichloroethene (trans)	UG/L	-	-	NA	NA	NA	1 U	1 U
1,2-Dichloropropane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,3-Dichloropropene (cis)	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
1,3-Dichloropropene (trans)	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
2-Hexanone	UG/L	-	-	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone	UG/L	-	-	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	UG/L	-	-	5.0 U	5.0 U	5.0 U	10 U	10 U
Benzene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Bromodichloromethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Bromoform	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Bromomethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	2 U	2 U
Carbon disulfide	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 UJ	1 U

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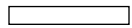
Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Volatile Organic Compounds								
Carbon tetrachloride	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Chlorobenzene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Chloroethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	2 U	2 U
Chloroform	UG/L	-	-	NA	NA	NA	1 U	1 U
Chloromethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	2 U	2 U
Dibromochloromethane	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Ethylbenzene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	-	5.0 U	5.0 U	5.0 U	10 U	10 U
Methylene chloride	UG/L	-	-	1.0 U	1.0 U	1.0 U	2 UJ	2 U
Styrene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Tetrachloroethene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Toluene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Trichloroethene	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Vinyl acetate	UG/L	-	-	NA	NA	NA	10 U	10 U
Vinyl chloride	UG/L	-	-	1.0 U	1.0 U	1.0 U	1 U	1 U
Xylene (total)	UG/L	-	-	3.0 U	3.0 U	3.0 U	2 U	NA
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	UG/L	-	-	10 U	10 U	10 U	2 U	2 U
1,2-Dichlorobenzene	UG/L	-	-	10 U	10 U	10 U	2 U	2 U
1,3-Dichlorobenzene	UG/L	-	-	10 U	10 U	10 U	2 U	2 U

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

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria (1)



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

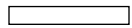
Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
1,4-Dichlorobenzene	UG/L	-	-	10 U	10 U	10 U	2 U	2 U
2,2'-oxybis(1-Chloropropane)	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
2,4,5-Trichlorophenol	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
2,4,6-Trichlorophenol	UG/L	-	-	10 U	5 U	5 U	4 U	4 U
2,4-Dichlorophenol	UG/L	-	-	10 U	5 U	5 U	4 U	4 U
2,4-Dimethylphenol	UG/L	-	-	10 U	5 U	5 U	4 U	4 U
2,4-Dinitrophenol	UG/L	-	-	51 U	10 U	10 U	4 U	4 U
2,4-Dinitrotoluene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
2,6-Dinitrotoluene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
2-Chloronaphthalene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
2-Chlorophenol	UG/L	-	-	10 U	5 U	5 U	4 U	4 U
2-Methylnaphthalene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
2-Methylphenol (o-cresol)	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
2-Nitroaniline	UG/L	-	-	51 U	10 U	10 U	2 U	2 U
2-Nitrophenol	UG/L	-	-	10 U	5 U	5 U	4 U	4 U
3&4-Methylphenol	UG/L	-	-	NA	NA	NA	4 U	4 U
3,3'-Dichlorobenzidine	UG/L	-	-	20 U	5 U	5 U	2 U	2 U
3-Nitroaniline	UG/L	-	-	51 U	10 U	10 U	2 U	2 U
4,6-Dinitro-2-methylphenol	UG/L	-	-	51 U	10 U	10 U	4 U	4 U
4-Bromophenyl-phenylether	UG/L	-	-	10 U	5 U	5 U	2 U	2 U

Criteria (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. * - Criteria ba
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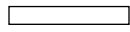
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
4-Chloro-3-methylphenol	UG/L	-	-	10 U	5 U	5 U	4 U	4 U
4-Chloroaniline	UG/L	-	-	10 U	5 U	5 U	2 U	2 UJ
4-Chlorophenyl-phenylether	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
4-Methylphenol (p-cresol)	UG/L	-	-	10 U	5 U	5 U	NA	NA
4-Nitroaniline	UG/L	-	-	51 U	NA	NA	2 U	2 U
4-Nitrophenol	UG/L	-	-	51 U	10 U	10 U	4 U	4 U
Acenaphthene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Acenaphthylene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Anthracene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Benzidine	UG/L	-	-	NA	NA	NA	R	R
Benzo(a)anthracene	UG/L	0.03	-	10 U	5 U	5 U	2 U	2 U
Benzo(a)pyrene	UG/L	0.0012	-	10 U	5 U	5 U	2 U	2 U
Benzo(b)fluoranthene	UG/L	-	-	0.9 J	5 U	5 U	2 U	2 U
Benzo(g,h,i)perylene	UG/L	-	-	0.5 J	5 U	5 U	2 U	2 U
Benzo(k)fluoranthene	UG/L	-	-	0.9 J	5 U	5 U	2 U	2 U
Benzoic acid	UG/L	-	-	NA	NA	NA	10 U	10 UJ
Benzyl alcohol	UG/L	-	-	NA	NA	NA	2 U	2 U
bis(2-Chloroethoxy)methane	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
bis(2-Chloroethyl)ether	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
bis(2-Ethylhexyl)phthalate	UG/L	0.6	-	5 J	5 U	5 U	2 U	2 U

Criteria (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. * - Criteria ba
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PFOHL BROTHERS LANDFILL SITE

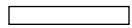
Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
Butylbenzylphthalate	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Carbazole	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Chrysene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Dibenz(a,h)anthracene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Dibenzofuran	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Diethylphthalate	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Dimethylphthalate	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Di-n-butylphthalate	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Di-n-octylphthalate	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Fluoranthene	UG/L	-	-	0.8 J	5 U	5 U	2 U	2 U
Fluorene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Hexachlorobenzene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Hexachlorobutadiene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Hexachlorocyclopentadiene	UG/L	-	-	46 U	5 U	5 U	4 U	4 U
Hexachloroethane	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Indeno(1,2,3-cd)pyrene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Isophorone	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Naphthalene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Nitrobenzene	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
N-Nitrosodimethylamine	UG/L	-	-	NA	NA	NA	2 U	2 U

Criteria (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. * - Criteria ba
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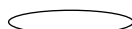
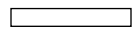
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Semivolatile Organic Compounds								
N-Nitroso-di-n-propylamine	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
N-Nitrosodiphenylamine	UG/L	-	-	10 U	5 U	5 U	2 U	2 U
Pentachlorophenol	UG/L	-	-	51 U	10 U	10 U	4 U	4 U
Phenanthrene	UG/L	5	-	10 U	5 U	5 U	2 U	2 U
Phenol	UG/L	-	-	10 U	5 U	5 U	4 U	4 U
Pyrene	UG/L	4.6	-	0.7 J	5 U	5 U	2 U	2 U
Polychlorinated Biphenyls								
Aroclor 1016	UG/L	-	-	0.54 U	NA	NA	0.050 U	0.05 U
Aroclor 1221	UG/L	-	-	0.54 U	NA	NA	0.050 U	0.05 U
Aroclor 1232	UG/L	-	-	0.54 U	NA	NA	0.050 U	0.05 U
Aroclor 1242	UG/L	-	-	0.54 U	NA	NA	0.050 U	0.05 U
Aroclor 1248	UG/L	-	-	0.54 U	NA	NA	0.050 U	0.05 U
Aroclor 1254	UG/L	-	-	0.54 U	NA	NA	0.050 U	0.05 U
Aroclor 1260	UG/L	-	-	0.54 U	NA	NA	0.050 U	0.05 U
Metals								
Aluminum	MG/L	0.1 ionic	-	3.1	0.24	0.25	0.198 J+	0.056 J+
Antimony	MG/L	-	-	0.020 U	0.020 U	0.020 U	0.005 U	0.005 U
Arsenic	MG/L	0.15	-	0.010 U	0.010 U	0.010 U	0.008 U	0.009 U
Barium	MG/L	-	-	0.11	0.028	0.027	0.019	0.015
Beryllium	MG/L	-	-	0.0020 U	0.0020 U	0.0020 U	0.001 U	0.001 U

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PFOHL BROTHERS LANDFILL SITE

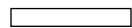
Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Metals								
Cadmium	MG/L	-	-	0.0010 U	0.0010 U	0.0010 U	0.001 U	0.001 U
Calcium	MG/L	-	-	82.4	64.9	64.4	69.8	62.6
Chromium	MG/L	193 *	-	0.0076	0.0040 U	0.0040 U	0.005 U	0.005 U
Cobalt	MG/L	0.005	-	0.0040 U	0.0040 U	0.0040 U	0.005 U	0.005 U
Copper	MG/L	24.3 *	-	0.014	0.010 U	0.010 U	0.009 U	0.009 U
Iron	MG/L	0.3	-	10.6	0.91	0.85	0.249	0.114
Lead	MG/L	13.1 *	-	0.016	0.0050 U	0.0050 U	0.003 U	0.003 U
Magnesium	MG/L	-	-	17.7	12.8	12.7	20.6	20.8
Manganese	MG/L	-	-	2.8 J+	0.089	0.086	0.084	0.053
Mercury	MG/L	-	-	0.00020 U	0.00020 U	0.00020 U	0.0002 U	0.0002 U
Nickel	MG/L	140 *	-	0.010 U	0.010 U	0.010 U	0.005 U	0.005 U
Potassium	MG/L	-	-	3.0 J+	0.61	0.60	4.73	3.31
Selenium	MG/L	-	-	0.015 U	0.015 U	0.015 U	0.003 U	0.003 U
Selenium	MG/L	-	-	0.015 U	0.015 U	0.015 U	0.003 U	0.003 U
Selenium	MG/L	-	-	0.015 U	0.015 U	0.015 U	0.003 U	0.003 U
Silver	MG/L	1.00E-04 ionic	-	0.0030 U	0.0030 U	0.0030 U	R	0.084 J-
Sodium	MG/L	-	-	103	110	95.6	179	18.5
Thallium	MG/L	-	-	0.020 U	0.020 U	0.020 U	0.002 U	0.002 U
Vanadium	MG/L	0.014 acid soluble	-	0.0078	0.0050 U	0.0050 U	0.00208	0.005 U
Zinc	MG/L	223 *	-	0.092	0.010 U	0.010 U	0.030	0.014

Criteria (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. * - Criteria based on
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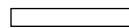
Location ID				SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID				SW-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Miscellaneous Parameters								
Cyanide	MG/L	-	-	0.01 U	0.010 U	0.010 U	0.010 U	0.01 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	53 U	35 U ± 3.90E+01	62 U ± 3.00E+01	2.7 U	2.878 U
Actinium 228 (Soluble)	PCI/L	-	3270	58 U	60 U ± 4.00E+02	60 U ± 1.90E+02	10 U	9.911 U
Barium 133 (Insoluble)	PCI/L	-	1520	13 U	18 U ± 9.60E+00	13 U ± 7.00E+00	0.34 U	0.6022 U
Barium 133 (Soluble)	PCI/L	-	1520	14 U	15 U ± 8.30E+00	13 U ± 7.10E+00	1.4 U	2.087 U
Bismuth 212 (Insoluble)	PCI/L	-	-	120 U	140 U ± 8.10E+01	110 U ± 5.60E+01	8.80 E ± 5.10E+00	5.441 U
Bismuth 212 (Soluble)	PCI/L	-	-	190 U	96 U ± 5.40E+01	110 U ± 6.00E+01	51.0 J ± 2.50E+01	17.78 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	32 U	49 U ± 8.90E+01	40 U ± 9.40E+01	1.4 U	1.331 U
Bismuth 214 (Soluble)	PCI/L	-	18900	35 U	27 U ± 1.40E+01	27 U ± 1.90E+01	4.8 U	4.939 U
Cesium 134 (Insoluble)	PCI/L	-	80	15 U	18 U ± 9.99E+00	15 U ± 8.50E+00	0.45 U	0.5712 U
Cesium 134 (Soluble)	PCI/L	-	80	R	13 U ± 7.80E+00	12 U ± 6.30E+00	1.9 U	2.186 U
Cesium 137 (Insoluble)	PCI/L	-	200	16 U	20 U ± 1.10E+01	20 U ± 1.10E+01	0.68 U	0.6866 U
Cesium 137 (Soluble)	PCI/L	-	200	15 U	13 U ± 7.30E+00	14 U ± 8.30E+00	2.4 U	2.306 U
Cobalt 60 (Insoluble)	PCI/L	-	100	20 U	27 U ± 1.40E+01	44 U ± 2.40E+01	0.39 U	1.016 U
Cobalt 60 (Soluble)	PCI/L	-	100	16 U	16 U ± 8.30E+00	17 U ± 9.40E+00	1.2 U	2.968 U
Lead 212 (Insoluble)	PCI/L	-	123	16 U	32 U ± 1.70E+01	26 U ± 2.00E+01	1 U	1.5119 U ± 1.97E+00
Lead 212 (Soluble)	PCI/L	-	123	18 U	20 U ± 1.20E+01	19 U ± 1.40E+01	4.1 U	7.6824 U ± 8.48E+00
Lead 214 (Insoluble)	PCI/L	-	11800	25 U	34 U ± 1.80E+01	30 U ± 4.50E+01	1.2 U	1.38 U
Lead 214 (Soluble)	PCI/L	-	11800	28 U	26 U ± 1.40E+01	26 U ± 1.40E+01	4.6 U	6.017 U ± 4.95E+00

Criteria (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. * - Criteria ba
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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-04	DUP-052107	SW-04	SW-5	SW-5
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units	Criteria (1)	Criteria (2)		Field Duplicate (0-1)			
Radionuclides								
Proactinium 234M (Insoluble)	PCI/L	-	-	1,700 U	2,400 U ± 1.30E+03	1,600 U ± 9.80E+02	63 U	103.6 U
Proactinium 234M (Soluble)	PCI/L	-	-	1,900 U	1,500 U ± 8.00E+02	1,900 U ± 1.00E+03	240 U	323.8 U
Potassium 40 (Insoluble)	PCI/L	-	-	230 U	350 U ± 2.70E+02	170 U ± 9.60E+01	17 U	12.18 U
Potassium 40 (Soluble)	PCI/L	-	-	200 U	140 U ± 7.00E+01	160 U ± 9.70E+01	39 U	38.89 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	15 U	24 U ± 1.50E+01	20 U ± 9.96E+01	0.68 U	0.7741 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	11 U	16 U ± 4.00E+01	14 U ± 2.90E+01	2.6 U	3.009 U
Thorium 234 (Insoluble)	PCI/L	-	401	130 U	210 U ± 3.50E+02	140 U ± 4.40E+01	28 U	39.726 U ± 6.71E+01
Thorium 234 (Soluble)	PCI/L	-	401	160 U	160 U ± 1.00E+02	140 U ± 7.70E+01	88 U	101.7 U
Uranium 235 (Insoluble)	PCI/L	-	-	46 U	74 U ± 1.80E+01	50 U ± 2.30E+02	0.59 U	0.5882 U
Uranium 235 (Soluble)	PCI/L	-	-	52 U	48 U ± 2.70E+01	42 U ± 2.40E+01	2.5 U	2.534 U
Zinc 65 (Insoluble)	PCI/L	-	-	26 U	48 U ± 2.70E+01	44 U ± 2.30E+01	1.4 U	1.556 U
Zinc 65 (Soluble)	PCI/L	-	-	27 U	28 U ± 1.50E+01	24 U ± 1.40E+01	4.7 U	4.419 U

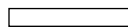
Criteria (1)- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998 (includes 4/2000 Addendum). Class B. * - Criteria ba

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Concentration Exceeds Criteria (1)



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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-06
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
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	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	-	-	1 U	1 U	1 U	NA	NA
1,2-Dichloroethene (total)	UG/L	-	-	NA	NA	NA	2.0 U	2.0 U
1,2-Dichloroethene (trans)	UG/L	-	-	1 U	1 U	1 U	NA	NA
1,2-Dichloropropane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
2-Hexanone	UG/L	-	-	10 U	10 U	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	-	10 U	10 U	10 U	5.0 U	5.0 U
Acetone	UG/L	-	-	10 U	10 U	10 U	5.0 U	5.0 U
Benzene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Bromoform	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Bromomethane	UG/L	-	-	2 U	2 U	2 U	1.0 U	1.0 U
Carbon disulfide	UG/L	-	-	1 UJ	1 U	1 U	1.0 U	1.0 U

Criteria (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. * - Criteria ba
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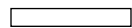
Location ID				SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/03/05	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Volatile Organic Compounds								
Carbon tetrachloride	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Chlorobenzene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Chloroethane	UG/L	-	-	2 U	2 U	2 U	1.0 U	1.0 U
Chloroform	UG/L	-	-	1 U	1 U	1 U	NA	NA
Chloromethane	UG/L	-	-	2 U	2 U	2 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Ethylbenzene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	-	10 U	10 U	10 U	5.0 U	5.0 U
Methylene chloride	UG/L	-	-	2 UJ	2 U	2 U	1.0 U	1.0 U
Styrene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Toluene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Trichloroethene	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Vinyl acetate	UG/L	-	-	10 U	10 U	10 U	NA	NA
Vinyl chloride	UG/L	-	-	1 U	1 U	1 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	-	2 U	NA	NA	3.0 U	3.0 U
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	UG/L	-	-	2 U	2 U	2 U	10 U	9 U
1,2-Dichlorobenzene	UG/L	-	-	2 U	2 U	2 U	10 U	9 U
1,3-Dichlorobenzene	UG/L	-	-	2 U	2 U	2 U	10 U	9 U

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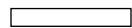
Location ID				SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/03/05	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
1,4-Dichlorobenzene	UG/L	-	-	2 U	2 U	2 U	10 U	9 U
2,2'-oxybis(1-Chloropropane)	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
2,4,5-Trichlorophenol	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
2,4,6-Trichlorophenol	UG/L	-	-	4 U	4 U	4 U	10 U	5 U
2,4-Dichlorophenol	UG/L	-	-	4 U	4 U	4 U	10 U	5 U
2,4-Dimethylphenol	UG/L	-	-	4 U	4 U	4 U	10 U	5 U
2,4-Dinitrophenol	UG/L	-	-	4 U	4 U	4 U	52 U	9 U
2,4-Dinitrotoluene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
2,6-Dinitrotoluene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
2-Chloronaphthalene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
2-Chlorophenol	UG/L	-	-	4 U	4 U	4 U	10 U	5 U
2-Methylnaphthalene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
2-Methylphenol (o-cresol)	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
2-Nitroaniline	UG/L	-	-	2 U	2 U	2 U	52 U	9 U
2-Nitrophenol	UG/L	-	-	4 U	4 U	4 U	10 U	5 U
3&4-Methylphenol	UG/L	-	-	4 U	4 U	4 U	NA	NA
3,3'-Dichlorobenzidine	UG/L	-	-	2 U	2 U	2 U	21 U	5 U
3-Nitroaniline	UG/L	-	-	2 U	2 U	2 U	52 U	9 U
4,6-Dinitro-2-methylphenol	UG/L	-	-	4 U	4 U	4 U	52 U	9 U
4-Bromophenyl-phenylether	UG/L	-	-	2 U	2 U	2 U	10 U	5 U

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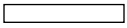
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Location ID				SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/03/05	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
4-Chloro-3-methylphenol	UG/L	-	-	4 U	4 U	4 U	10 U	5 U
4-Chloroaniline	UG/L	-	-	2 U	2 UJ	2 UJ	10 U	5 U
4-Chlorophenyl-phenylether	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
4-Methylphenol (p-cresol)	UG/L	-	-	NA	NA	NA	10 U	5 U
4-Nitroaniline	UG/L	-	-	2 U	2 U	2 U	52 U	NA
4-Nitrophenol	UG/L	-	-	4 U	4 U	4 U	52 U	9 U
Acenaphthene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Acenaphthylene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Anthracene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Benzidine	UG/L	-	-	R	R	R	NA	NA
Benzo(a)anthracene	UG/L	0.03	-	2 U	2 U	2 U	10 U	5 U
Benzo(a)pyrene	UG/L	0.0012	-	2 U	2 U	2 U	10 U	5 U
Benzo(b)fluoranthene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Benzo(g,h,i)perylene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Benzo(k)fluoranthene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Benzoic acid	UG/L	-	-	10 U	10 UJ	10 UJ	NA	NA
Benzyl alcohol	UG/L	-	-	2 U	2 U	2 U	NA	NA
bis(2-Chloroethoxy)methane	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
bis(2-Chloroethyl)ether	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
bis(2-Ethylhexyl)phthalate	UG/L	0.6	-	2 U	2 U	2 U	10 U	5 U

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Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
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	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
Butylbenzylphthalate	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Carbazole	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Chrysene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Dibenz(a,h)anthracene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Dibenzofuran	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Diethylphthalate	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Dimethylphthalate	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Di-n-butylphthalate	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Di-n-octylphthalate	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Fluoranthene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Fluorene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Hexachlorobenzene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Hexachlorobutadiene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Hexachlorocyclopentadiene	UG/L	-	-	4 U	4 U	4 U	47 U	5 U
Hexachloroethane	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Isophorone	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Naphthalene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Nitrobenzene	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
N-Nitrosodimethylamine	UG/L	-	-	2 U	2 U	2 U	NA	NA

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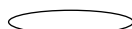
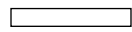
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Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/03/05	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Semivolatile Organic Compounds								
N-Nitroso-di-n-propylamine	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
N-Nitrosodiphenylamine	UG/L	-	-	2 U	2 U	2 U	10 U	5 U
Pentachlorophenol	UG/L	-	-	4 U	4 U	4 U	52 U	9 U
Phenanthrene	UG/L	5	-	2 U	2 U	2 U	10 U	5 U
Phenol	UG/L	-	-	4 U	4 U	4 U	10 U	5 U
Pyrene	UG/L	4.6	-	2 U	2 U	2 U	10 U	5 U
Polychlorinated Biphenyls								
Aroclor 1016	UG/L	-	-	0.050 U	0.05 U	0.05 U	0.59 U	NA
Aroclor 1221	UG/L	-	-	0.050 U	0.05 U	0.05 U	0.59 U	NA
Aroclor 1232	UG/L	-	-	0.050 U	0.05 U	0.05 U	0.59 U	NA
Aroclor 1242	UG/L	-	-	0.050 U	0.05 U	0.05 U	0.59 U	NA
Aroclor 1248	UG/L	-	-	0.050 U	0.05 U	0.05 U	0.59 U	NA
Aroclor 1254	UG/L	-	-	0.050 U	0.05 U	0.05 U	0.59 U	NA
Aroclor 1260	UG/L	-	-	0.050 U	0.05 U	0.05 U	0.59 U	NA
Metals								
Aluminum	MG/L	0.1 ionic	-	1.17 J+	0.119 J+	0.123 J+	7.8	0.21
Antimony	MG/L	-	-	0.005 U	0.005 U	0.005 U	0.020 U	0.020 U
Arsenic	MG/L	0.15	-	0.008 U	0.009 U	0.009 U	0.010 U	0.010 U
Barium	MG/L	-	-	0.042	0.034	0.035	0.085	0.030
Beryllium	MG/L	-	-	0.001 U	0.001 U	0.001 U	0.0020 U	0.0020 U

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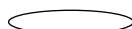
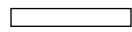
Detection Limits shown are PQL

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

Location ID				SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
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	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Metals								
Cadmium	MG/L	-	-	0.001 U	0.001 U	0.001 U	0.0010 U	0.0010 U
Calcium	MG/L	-	-	155	131	131	190	114
Chromium	MG/L	193 *	-	0.005 U	0.005 U	0.005 U	0.0095	0.0040 U
Cobalt	MG/L	0.005	-	0.005 U	0.005 U	0.005 U	0.0049	0.0040 U
Copper	MG/L	24.3 *	-	0.009 U	0.015	0.011	0.015	0.010 U
Iron	MG/L	0.3	-	1.85	0.268	0.255	9.9	0.38
Lead	MG/L	13.1 *	-	0.026	0.003 U	0.003 U	0.013	0.0050 U
Magnesium	MG/L	-	-	42.5	35.6	35.4	52.3	33.4
Manganese	MG/L	-	-	0.170	0.155	0.172	0.70 J+	0.92
Mercury	MG/L	-	-	0.0002 U	0.0002 U	0.0002 U	0.00020 U	0.00020 U
Nickel	MG/L	140 *	-	0.005 U	0.005 U	0.005 U	0.011	0.010 U
Potassium	MG/L	-	-	8.43	7.15	7.27	13.4 J+	5.0
Selenium	MG/L	-	-	0.003 U	0.003 U	0.003 U	0.015 U	0.015 U
Selenium	MG/L	-	-	0.003 U	0.003 U	0.003 U	0.015 U	0.015 U
Selenium	MG/L	-	-	0.003 U	0.003 U	0.003 U	0.015 U	0.015 U
Silver	MG/L	1.00E-04 ionic	-	R	R	R	0.0030 U	0.0030 U
Sodium	MG/L	-	-	52.3	38.8	40.1	35.9	25.6
Thallium	MG/L	-	-	0.002 U	0.002 U	0.002 U	0.020 U	0.020 U
Vanadium	MG/L	0.014 acid soluble	-	0.00254	0.005 U	0.005 U	0.015	0.0050 U
Zinc	MG/L	223 *	-	0.017	0.013 U	0.013 U	0.073	0.012

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

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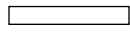
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
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	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Miscellaneous Parameters								
Cyanide	MG/L	-	-	0.010 U	0.01 U	0.01 U	0.01 U	0.010 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.8 U	3.123 U	2.998 U	54 U	74 U ± 3.30E+01
Actinium 228 (Soluble)	PCI/L	-	3270	11 U	10.77 U	10.08 U	49 U	50 U ± 4.90E+03
Barium 133 (Insoluble)	PCI/L	-	1520	0.44 U	0.5694 U	0.6428 U	15 U	18 U ± 9.80E+00
Barium 133 (Soluble)	PCI/L	-	1520	1.7 U	2.213 U	2.82 U	13 U	12 U ± 6.60E+00
Bismuth 212 (Insoluble)	PCI/L	-	-	1.2 U	5.416 U	5.598 U	120 U	180 U ± 9.50E+01
Bismuth 212 (Soluble)	PCI/L	-	-	9.7 U	18.25 U	19.79 U	190 U	97 U ± 5.30E+01
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.8 U	1.464 U	1.331 U	32 U	60 U ± 2.50E+02
Bismuth 214 (Soluble)	PCI/L	-	18900	5.4 U	5.485 U	4.899 U	31 U	28 U ± 2.60E+01
Cesium 134 (Insoluble)	PCI/L	-	80	0.51 U	0.6204 U	0.5579 U	11 U	19 U ± 1.00E+01
Cesium 134 (Soluble)	PCI/L	-	80	1.4 U	2.514 U	2.285 U	11 U	11 U ± 6.30E+00
Cesium 137 (Insoluble)	PCI/L	-	200	0.75 U	0.638 U	0.6957 U	20 U	22 U ± 1.10E+01
Cesium 137 (Soluble)	PCI/L	-	200	2.3 U	2.556 U	2.263 U	16 U	14 U ± 8.30E+00
Cobalt 60 (Insoluble)	PCI/L	-	100	0.42 U	1.006 U	1.046 U	21 U	17 U ± 1.00E+01
Cobalt 60 (Soluble)	PCI/L	-	100	0.92 U	2.789 U	3.064 U	18 U	14 U ± 7.00E+00
Lead 212 (Insoluble)	PCI/L	-	123	1.2 U	0.9465 U	0.971 U	R	29 U ± 9.80E+01
Lead 212 (Soluble)	PCI/L	-	123	4.2 U	3.895 U	4.7668 U	16 U	18 U ± 1.50E+01
Lead 214 (Insoluble)	PCI/L	-	11800	1.3 U	1.253 U	1.391 U	R	36 U ± 2.00E+01
Lead 214 (Soluble)	PCI/L	-	11800	4.8 U	4.908 U	4.981 U	24 U	24 U ± 1.30E+01

Criteria (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. * - Criteria ba
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TABLE 2
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID				SW-6	SW-6	SW-9	SW-06	SW-06
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	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)		
Radionuclides								
Proactinium 234M (Insoluble)	PCI/L	-	-	83 U	138.1 U	107.4 U	2,100 U	2,600 U ± 1.60E+03
Proactinium 234M (Soluble)	PCI/L	-	-	260 U	350.5 U	322.9 U	1,800 U	1,400 U ± 7.90E+02
Potassium 40 (Insoluble)	PCI/L	-	-	12 U	13.37 U	13.01 U	200 U	500 U ± 2.10E+03
Potassium 40 (Soluble)	PCI/L	-	-	51 U	38.4 U	35.75 U	200 U	190 U ± 3.10E+02
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	0.8 U	0.7726 U	0.7043 U	15 U	24 U ± 1.30E+01
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.5 U	2.817 U	2.814 U	12 U	13 U ± 7.60E+00
Thorium 234 (Insoluble)	PCI/L	-	401	25 U	24.68 U	30.2 U	110 U	190 U ± 1.20E+02
Thorium 234 (Soluble)	PCI/L	-	401	84 U	84.17 U	107.2 U	130 U	290 U ± 1.60E+02
Uranium 235 (Insoluble)	PCI/L	-	-	0.62 U	0.6852 U	0.564 U	48 U	68 U ± 3.80E+01
Uranium 235 (Soluble)	PCI/L	-	-	2.6 U	2.913 U	3.3267 U	45 U	62 U ± 3.60E+01
Zinc 65 (Insoluble)	PCI/L	-	-	1.4 U	1.515 U	1.553 U	27 U	57 U ± 3.00E+01
Zinc 65 (Soluble)	PCI/L	-	-	4.4 U	7.623 U	4.273 U	25 U	32 U ± 1.80E+01

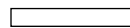
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PFOHL BROTHERS LANDFILL SITE

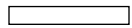
Location ID				SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
1,1,1-Trichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1,2,2-Tetrachloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1,2-Trichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1-Dichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,1-Dichloroethene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,2-Dichloroethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,2-Dichloroethene (cis)	UG/L	-	-	1 U	1 U	NA	NA	1 U
1,2-Dichloroethene (total)	UG/L	-	-	NA	NA	2.0 U	2.0 U	NA
1,2-Dichloroethene (trans)	UG/L	-	-	1 U	1 U	NA	NA	1 U
1,2-Dichloropropane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,3-Dichloropropene (cis)	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
1,3-Dichloropropene (trans)	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
2-Hexanone	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
Acetone	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
Benzene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Bromodichloromethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Bromoform	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Bromomethane	UG/L	-	-	2 U	2 U	1.0 U	1.0 U	2 U
Carbon disulfide	UG/L	-	-	1 UJ	1 U	1.0 U	1.0 U	1 UJ

Criteria (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. * - Criteria ba
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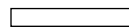
Location ID				SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Volatile Organic Compounds								
Carbon tetrachloride	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Chlorobenzene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Chloroethane	UG/L	-	-	2 U	2 U	1.0 U	1.0 U	2 U
Chloroform	UG/L	-	-	1 U	1 U	NA	NA	1 U
Chloromethane	UG/L	-	-	2 U	2 U	1.0 U	1.0 U	2 U
Dibromochloromethane	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Ethylbenzene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	-	10 U	10 U	5.0 U	5.0 U	10 U
Methylene chloride	UG/L	-	-	2 UJ	2 U	1.0 U	1.0 U	2 UJ
Styrene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Tetrachloroethene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Toluene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Trichloroethene	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Vinyl acetate	UG/L	-	-	10 U	10 U	NA	NA	10 U
Vinyl chloride	UG/L	-	-	1 U	1 U	1.0 U	1.0 U	1 U
Xylene (total)	UG/L	-	-	2 U	NA	3.0 U	3.0 U	2 U
Semivolatile Organic Compounds								
1,2,4-Trichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U
1,2-Dichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U
1,3-Dichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U

Criteria (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. * - Criteria ba
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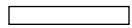
Location ID				SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
1,4-Dichlorobenzene	UG/L	-	-	2 U	2 U	10 U	10 U	2 U
2,2'-oxybis(1-Chloropropane)	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2,4,5-Trichlorophenol	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2,4,6-Trichlorophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2,4-Dichlorophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2,4-Dimethylphenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2,4-Dinitrophenol	UG/L	-	-	4 U	4 U	51 U	10 U	4 U
2,4-Dinitrotoluene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2,6-Dinitrotoluene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Chloronaphthalene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Chlorophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
2-Methylnaphthalene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Methylphenol (o-cresol)	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
2-Nitroaniline	UG/L	-	-	2 U	2 U	51 U	10 U	2 U
2-Nitrophenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
3&4-Methylphenol	UG/L	-	-	4 U	4 U	NA	NA	4 U
3,3'-Dichlorobenzidine	UG/L	-	-	2 U	2 U	20 U	5 U	2 U
3-Nitroaniline	UG/L	-	-	2 U	2 U	51 U	10 U	2 U
4,6-Dinitro-2-methylphenol	UG/L	-	-	4 U	4 U	51 U	10 U	4 U
4-Bromophenyl-phenylether	UG/L	-	-	2 U	2 U	10 U	5 U	2 U

Criteria (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. * - Criteria ba
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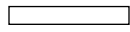
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
4-Chloro-3-methylphenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
4-Chloroaniline	UG/L	-	-	2 U	2 UJ	10 U	5 U	2 U
4-Chlorophenyl-phenylether	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
4-Methylphenol (p-cresol)	UG/L	-	-	NA	NA	10 U	5 U	NA
4-Nitroaniline	UG/L	-	-	2 U	2 U	51 U	NA	2 U
4-Nitrophenol	UG/L	-	-	4 U	4 U	51 U	10 U	4 U
Acenaphthene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Acenaphthylene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Anthracene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Benzidine	UG/L	-	-	R	R	NA	NA	R
Benzo(a)anthracene	UG/L	0.03	-	2 U	2 U	10 U	5 U	2 U
Benzo(a)pyrene	UG/L	0.0012	-	2 U	2 U	10 U	5 U	2 U
Benzo(b)fluoranthene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Benzo(g,h,i)perylene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Benzo(k)fluoranthene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Benzoic acid	UG/L	-	-	10 U	10 UJ	NA	NA	10 U
Benzyl alcohol	UG/L	-	-	2 U	2 U	NA	NA	2 U
bis(2-Chloroethoxy)methane	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
bis(2-Chloroethyl)ether	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
bis(2-Ethylhexyl)phthalate	UG/L	0.6	-	2 U	2 U	10 U	5 U	2 U

Criteria (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. * - Criteria ba
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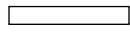
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
Butylbenzylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Carbazole	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Chrysene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Dibenz(a,h)anthracene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Dibenzofuran	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Diethylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Dimethylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Di-n-butylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Di-n-octylphthalate	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Fluoranthene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Fluorene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Hexachlorobenzene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Hexachlorobutadiene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Hexachlorocyclopentadiene	UG/L	-	-	4 U	4 U	46 U	5 U	4 U
Hexachloroethane	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Indeno(1,2,3-cd)pyrene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Isophorone	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Naphthalene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Nitrobenzene	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
N-Nitrosodimethylamine	UG/L	-	-	2 U	2 U	NA	NA	2 U

Criteria (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. * - Criteria ba
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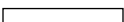
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Semivolatile Organic Compounds								
N-Nitroso-di-n-propylamine	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
N-Nitrosodiphenylamine	UG/L	-	-	2 U	2 U	10 U	5 U	2 U
Pentachlorophenol	UG/L	-	-	4 U	4 U	51 U	10 U	4 U
Phenanthrene	UG/L	5	-	2 U	2 U	10 U	5 U	2 U
Phenol	UG/L	-	-	4 U	4 U	10 U	5 U	4 U
Pyrene	UG/L	4.6	-	2 U	2 U	10 U	5 U	2 U
Polychlorinated Biphenyls								
Aroclor 1016	UG/L	-	-	0.050 U	0.05 U	0.53 U	NA	0.050 U
Aroclor 1221	UG/L	-	-	0.050 U	0.05 U	0.53 U	NA	0.050 U
Aroclor 1232	UG/L	-	-	0.050 U	0.05 U	0.53 U	NA	0.050 U
Aroclor 1242	UG/L	-	-	0.050 U	0.05 U	0.53 U	NA	0.050 U
Aroclor 1248	UG/L	-	-	0.050 U	0.05 U	0.53 U	NA	0.050 U
Aroclor 1254	UG/L	-	-	0.050 U	0.05 U	0.53 U	NA	0.050 U
Aroclor 1260	UG/L	-	-	0.050 U	0.05 U	0.53 U	NA	0.050 U
Metals								
Aluminum	MG/L	0.1 ionic	-	0.049 J+	0.025 U	0.20 U	0.20 U	0.025 U
Antimony	MG/L	-	-	0.005 U	0.005 U	0.020 U	0.020 U	0.005 U
Arsenic	MG/L	0.15	-	0.008 U	0.009 U	0.010 U	0.010 U	0.008 U
Barium	MG/L	-	-	0.045	0.038	0.048	0.045	0.052
Beryllium	MG/L	-	-	0.001 U	0.001 U	0.0020 U	0.0020 U	0.001 U

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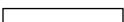
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PFOHL BROTHERS LANDFILL SITE

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Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Metals								
Cadmium	MG/L	-	-	0.001 U	0.001 U	0.0010 U	0.0010 U	0.001 U
Calcium	MG/L	-	-	95.0	86.6	97.7	103	102
Chromium	MG/L	193 *	-	0.005 U	0.005 U	0.0040 U	0.0040 U	0.005 U
Cobalt	MG/L	0.005	-	0.005 U	0.005 U	0.0040 U	0.0040 U	0.005 U
Copper	MG/L	24.3 *	-	0.009 U	0.009 U	0.010 U	0.010 U	0.009 U
Iron	MG/L	0.3	-	0.869	0.308	0.30	0.36	1.37
Lead	MG/L	13.1 *	-	0.003 U	0.003 U	0.0050 U	0.0050 U	0.003 U
Magnesium	MG/L	-	-	22.4	20.5	29.7	27.0	23.0
Manganese	MG/L	-	-	0.135	0.128	0.13 J+	0.19	0.292
Mercury	MG/L	-	-	0.0002 U	0.0002 U	0.00020 U	0.00020 U	0.0002 U
Nickel	MG/L	140 *	-	0.005 U	0.005 U	0.010 U	0.010 U	0.005 U
Potassium	MG/L	-	-	2.44	2.13	1.7 J+	2.2	2.03
Selenium	MG/L	-	-	0.003 U	0.003 U	0.015 U	0.015 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.003 U	0.015 U	0.015 U	0.003 U
Selenium	MG/L	-	-	0.003 U	0.003 U	0.015 U	0.015 U	0.003 U
Silver	MG/L	1.00E-04 ionic	-	R	R	0.0030 U	0.0030 U	R
Sodium	MG/L	-	-	116	94.4	121	134	107
Thallium	MG/L	-	-	0.002 U	0.002 U	0.020 U	0.020 U	0.002 U
Vanadium	MG/L	0.014 acid soluble	-	0.000499	0.005 U	0.0050 U	0.0050 U	0.000219
Zinc	MG/L	223 *	-	0.013 U	0.019	0.010 U	0.010 U	0.029

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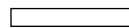
Location ID				SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
Matrix				Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-	-
Date Sampled				05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Miscellaneous Parameters								
Cyanide	MG/L	-	-	0.010 U	0.01 U	0.01 U	0.010 U	0.010 U
Radionuclides								
Actinium 228 (Insoluble)	PCI/L	-	3270	3.9 U	3.064 U	64 U	84 U ± 4.60E+01	2.9 U
Actinium 228 (Soluble)	PCI/L	-	3270	10 U	11.37 U	46 U	53 U ± 2.90E+01	10 U
Barium 133 (Insoluble)	PCI/L	-	1520	0.33 U	0.6526 U	18 U	22 U ± 1.20E+01	0.45 U
Barium 133 (Soluble)	PCI/L	-	1520	1.2 U	2.0219 U	13 U	11 U ± 6.20E+00	1.5 U
Bismuth 212 (Insoluble)	PCI/L	-	-	14.2 E ± 8.10E+00	5.9979 U ± 7.11E+01	150 U	180 U ± 1.00E+02	2.2 U
Bismuth 212 (Soluble)	PCI/L	-	-	9 U	19 U	160 U	100 U ± 5.70E+01	7.6 U
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.3 U	1.314 U	48 U	58 U ± 6.00E+01	1.8 U
Bismuth 214 (Soluble)	PCI/L	-	18900	5.4 U	5.053 U	28 U	28 U ± 1.60E+01	4.6 U
Cesium 134 (Insoluble)	PCI/L	-	80	0.33 U	0.6334 U	12 U	22 U ± 1.20E+01	0.41 U
Cesium 134 (Soluble)	PCI/L	-	80	1.4 U	2.264 U	9.8 U	13 U ± 7.30E+00	1.4 U
Cesium 137 (Insoluble)	PCI/L	-	200	0.66 U	0.6769 U	18 U	22 U ± 1.20E+01	0.54 U
Cesium 137 (Soluble)	PCI/L	-	200	2.4 U	2.418 U	13 U	13 U ± 7.20E+00	1.9 U
Cobalt 60 (Insoluble)	PCI/L	-	100	0.39 U	1.181 U	22 U	44 U ± 2.40E+01	0.39 U
Cobalt 60 (Soluble)	PCI/L	-	100	1.3 U	2.732 U	13 U	15 U ± 8.00E+00	0.88 U
Lead 212 (Insoluble)	PCI/L	-	123	1 U	0.9753 U	22 U	33 U ± 2.20E+01	1.1 U
Lead 212 (Soluble)	PCI/L	-	123	4 U	4.575 U	20 U	21 U ± 1.80E+01	4 U
Lead 214 (Insoluble)	PCI/L	-	11800	1.3 U	1.316 U	34 U	45 U ± 3.60E+01	1.3 U
Lead 214 (Soluble)	PCI/L	-	11800	4.2 U	4.642 U	27 U	20 U ± 1.90E+02	4.7 U

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PFOHL BROTHERS LANDFILL SITE

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Sample ID				SW-7	SW-7	SW-07	SW-07	SW-8
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	05/21/07	05/03/04
Parameter	Units	Criteria (1)	Criteria (2)					
Radionuclides								
Proactinium 234M (Insoluble)	PCI/L	-	-	57 U	104.9 U	2,400 U	2,600 U ± 1.40E+03	59 U
Proactinium 234M (Soluble)	PCI/L	-	-	190 U	346.6 U	1,600 U	1,700 U ± 9.10E+02	190 U
Potassium 40 (Insoluble)	PCI/L	-	-	17 U	11.14 U	280 U	430 U ± 1.90E+02	12 U
Potassium 40 (Soluble)	PCI/L	-	-	36 U	37.43 U	190 U	270 U ± 1.50E+02	46 U
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	0.66 U	0.7654 U	15 U	28 U ± 8.80E+01	0.69 U
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.5 U	2.725 U	13 U	10 U ± 1.80E+02	3 U
Thorium 234 (Insoluble)	PCI/L	-	401	27 U	31.97 U	180 U	220 U ± 1.40E+02	25 U
Thorium 234 (Soluble)	PCI/L	-	401	79 U	106.2 U	R	150 U ± 8.30E+01	83 U
Uranium 235 (Insoluble)	PCI/L	-	-	0.57 U	0.5403 U	63 U	89 U ± 5.00E+01	0.6 U
Uranium 235 (Soluble)	PCI/L	-	-	2.4 U	2.96 U	50 U	52 U ± 7.90E+01	2.5 U
Zinc 65 (Insoluble)	PCI/L	-	-	1.4 U	1.587 U	36 U	50 U ± 2.70E+01	1.5 U
Zinc 65 (Soluble)	PCI/L	-	-	4.7 U	4.707 U	26 U	27 U ± 1.40E+01	4.3 U

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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	-	-	1 U	NA	NA	NA
1,2-Dichloroethene (total)	UG/L	-	-	NA	2.0 U	2.0 U	2.0 U
1,2-Dichloroethene (trans)	UG/L	-	-	1 U	NA	NA	NA
1,2-Dichloropropane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	-	-	10 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	-	10 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	-	-	10 U	5.0 U	5.0 U	2.6 J
Benzene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	-	-	2 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U

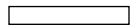
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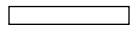
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Volatile Organic Compounds							
Carbon tetrachloride	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	-	-	2 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	-	-	1 U	NA	NA	NA
Chloromethane	UG/L	-	-	2 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Methyl ethyl ketone (2-Butanone)	UG/L	-	-	10 U	5.0 U	5.0 U	5.0 U
Methylene chloride	UG/L	-	-	2 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Vinyl acetate	UG/L	-	-	10 U	NA	NA	NA
Vinyl chloride	UG/L	-	-	1 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	-	-	NA	3.0 U	3.0 U	3.0 U
Semivolatile Organic Compounds							
1,2,4-Trichlorobenzene	UG/L	-	-	2 U	10 U	10 U	10 U
1,2-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	10 U
1,3-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	10 U

Criteria (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. * - Criteria ba
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TABLE 2
SUMMARY OF HISTORICAL SURFACE WATER ANALYTICAL RESULTS
PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Semivolatile Organic Compounds							
1,4-Dichlorobenzene	UG/L	-	-	2 U	10 U	10 U	10 U
2,2'-oxybis(1-Chloropropane)	UG/L	-	-	2 U	10 U	10 U	5 U
2,4,5-Trichlorophenol	UG/L	-	-	2 U	10 U	10 U	5 U
2,4,6-Trichlorophenol	UG/L	-	-	4 U	10 U	10 U	5 U
2,4-Dichlorophenol	UG/L	-	-	4 U	10 U	10 U	5 U
2,4-Dimethylphenol	UG/L	-	-	4 U	10 U	10 U	5 U
2,4-Dinitrophenol	UG/L	-	-	4 U	52 U	51 U	10 U
2,4-Dinitrotoluene	UG/L	-	-	2 U	10 U	10 U	5 U
2,6-Dinitrotoluene	UG/L	-	-	2 U	10 U	10 U	5 U
2-Chloronaphthalene	UG/L	-	-	2 U	10 U	10 U	5 U
2-Chlorophenol	UG/L	-	-	4 U	10 U	10 U	5 U
2-Methylnaphthalene	UG/L	-	-	2 U	10 U	10 U	5 U
2-Methylphenol (o-cresol)	UG/L	-	-	2 U	10 U	10 U	5 U
2-Nitroaniline	UG/L	-	-	2 U	52 U	51 U	10 U
2-Nitrophenol	UG/L	-	-	4 U	10 U	10 U	5 U
3&4-Methylphenol	UG/L	-	-	4 U	NA	NA	NA
3,3'-Dichlorobenzidine	UG/L	-	-	2 U	21 U	20 U	5 U
3-Nitroaniline	UG/L	-	-	2 U	52 U	51 U	10 U
4,6-Dinitro-2-methylphenol	UG/L	-	-	4 U	52 U	51 U	10 U
4-Bromophenyl-phenylether	UG/L	-	-	2 U	10 U	10 U	5 U

Criteria (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. * - Criteria based on

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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Semivolatile Organic Compounds							
4-Chloro-3-methylphenol	UG/L	-	-	4 U	10 U	10 U	5 U
4-Chloroaniline	UG/L	-	-	2 UJ	10 U	10 U	5 U
4-Chlorophenyl-phenylether	UG/L	-	-	2 U	10 U	10 U	5 U
4-Methylphenol (p-cresol)	UG/L	-	-	NA	10 U	10 U	5 U
4-Nitroaniline	UG/L	-	-	2 U	52 U	51 U	NA
4-Nitrophenol	UG/L	-	-	4 U	52 U	51 U	10 U
Acenaphthene	UG/L	-	-	2 U	10 U	10 U	5 U
Acenaphthylene	UG/L	-	-	2 U	10 U	10 U	5 U
Anthracene	UG/L	-	-	2 U	10 U	10 U	5 U
Benzidine	UG/L	-	-	R	NA	NA	NA
Benzo(a)anthracene	UG/L	0.03	-	2 U	10 U	10 U	0.3 J
Benzo(a)pyrene	UG/L	0.0012	-	2 U	10 U	10 U	5 U
Benzo(b)fluoranthene	UG/L	-	-	2 U	10 U	10 U	5 U
Benzo(g,h,i)perylene	UG/L	-	-	2 U	10 U	10 U	5 U
Benzo(k)fluoranthene	UG/L	-	-	2 U	10 U	10 U	5 U
Benzoic acid	UG/L	-	-	10 UJ	NA	NA	NA
Benzyl alcohol	UG/L	-	-	2 U	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	-	-	2 U	10 U	10 U	5 U
bis(2-Chloroethyl)ether	UG/L	-	-	2 U	10 U	10 U	5 U
bis(2-Ethylhexyl)phthalate	UG/L	0.6	-	2 U	10 U	10 U	5 U

Criteria (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. * - Criteria ba
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Semivolatile Organic Compounds							
Butylbenzylphthalate	UG/L	-	-	2 U	10 U	10 U	5 U
Carbazole	UG/L	-	-	2 U	10 U	10 U	5 U
Chrysene	UG/L	-	-	2 U	10 U	10 U	5 U
Dibenz(a,h)anthracene	UG/L	-	-	2 U	10 U	10 U	5 U
Dibenzofuran	UG/L	-	-	2 U	10 U	10 U	5 U
Diethylphthalate	UG/L	-	-	2 U	10 U	10 U	5 U
Dimethylphthalate	UG/L	-	-	2 U	10 U	10 U	5 U
Di-n-butylphthalate	UG/L	-	-	2 U	10 U	10 U	5 U
Di-n-octylphthalate	UG/L	-	-	2 U	10 U	10 U	5 U
Fluoranthene	UG/L	-	-	2 U	10 U	10 U	0.3 J
Fluorene	UG/L	-	-	2 U	10 U	10 U	5 U
Hexachlorobenzene	UG/L	-	-	2 U	10 U	10 U	5 U
Hexachlorobutadiene	UG/L	-	-	2 U	10 U	10 U	5 U
Hexachlorocyclopentadiene	UG/L	-	-	4 U	47 U	46 U	5 U
Hexachloroethane	UG/L	-	-	2 U	10 U	10 U	5 U
Indeno(1,2,3-cd)pyrene	UG/L	-	-	2 U	10 U	10 U	5 U
Isophorone	UG/L	-	-	2 U	10 U	10 U	5 U
Naphthalene	UG/L	-	-	2 U	10 U	10 U	5 U
Nitrobenzene	UG/L	-	-	2 U	10 U	10 U	5 U
N-Nitrosodimethylamine	UG/L	-	-	2 U	NA	NA	NA

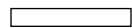
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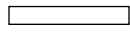
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PFOHL BROTHERS LANDFILL SITE

Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Semivolatile Organic Compounds							
N-Nitroso-di-n-propylamine	UG/L	-	-	2 U	10 U	10 U	5 U
N-Nitrosodiphenylamine	UG/L	-	-	2 U	10 U	10 U	5 U
Pentachlorophenol	UG/L	-	-	4 U	52 U	51 U	10 U
Phenanthrene	UG/L	5	-	2 U	10 U	10 U	5 U
Phenol	UG/L	-	-	4 U	10 U	10 U	5 U
Pyrene	UG/L	4.6	-	2 U	10 U	10 U	0.3 J
Polychlorinated Biphenyls							
Aroclor 1016	UG/L	-	-	0.05 U	0.55 U	0.53 U	NA
Aroclor 1221	UG/L	-	-	0.05 U	0.55 U	0.53 U	NA
Aroclor 1232	UG/L	-	-	0.05 U	0.55 U	0.53 U	NA
Aroclor 1242	UG/L	-	-	0.05 U	0.55 U	0.53 U	NA
Aroclor 1248	UG/L	-	-	0.05 U	0.55 U	0.53 U	NA
Aroclor 1254	UG/L	-	-	0.05 U	0.55 U	0.53 U	NA
Aroclor 1260	UG/L	-	-	0.05 U	0.55 U	0.53 U	NA
Metals							
Aluminum	MG/L	0.1 ionic	-	0.069 J+	0.20 U	0.28	4.9
Antimony	MG/L	-	-	0.005 U	0.020 U	0.020 U	0.020 U
Arsenic	MG/L	0.15	-	0.009 U	0.010 U	0.010 U	0.021
Barium	MG/L	-	-	0.052	0.076	0.082	0.33
Beryllium	MG/L	-	-	0.001 U	0.0020 U	0.0020 U	0.0020 U

Criteria (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. * - Criteria ba
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PFOHL BROTHERS LANDFILL SITE

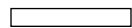
Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Metals							
Cadmium	MG/L	-	-	0.001 U	0.0010 U	0.0010 U	0.0010 U
Calcium	MG/L	-	-	94.6	97.5	98.7	143
Chromium	MG/L	193 *	-	0.005 U	0.0040 U	0.0040 U	0.017
Cobalt	MG/L	0.005	-	0.005 U	0.0040 U	0.0040 U	0.0040 U
Copper	MG/L	24.3 *	-	0.009 U	0.010 U	0.010 U	0.041
Iron	MG/L	0.3	-	2.02	0.81	1.4	94.1
Lead	MG/L	13.1 *	-	0.003	0.0050 U	0.0050 U	0.028
Magnesium	MG/L	-	-	22.0	26.9	27.1	33.5
Manganese	MG/L	-	-	0.188	0.18 J+	0.27 J+	1.9
Mercury	MG/L	-	-	0.0002 U	0.00020 U	0.00020 U	0.00020 U
Nickel	MG/L	140 *	-	0.005 U	0.010 U	0.010 U	0.010 U
Potassium	MG/L	-	-	1.70	3.4 J+	3.5 J+	3.3
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.015 U
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.015 U
Selenium	MG/L	-	-	0.003 U	0.015 U	0.015 U	0.015 U
Silver	MG/L	1.00E-04 ionic	-	R	0.0030 U	0.0030 U	0.0030 U
Sodium	MG/L	-	-	94.6	326	325	137
Thallium	MG/L	-	-	0.002 U	0.020 U	0.020 U	0.020 U
Vanadium	MG/L	0.014 acid soluble	-	0.005 U	0.0050 U	0.0050 U	0.015
Zinc	MG/L	223 *	-	0.020	0.010 U	0.014	0.15

Criteria (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. * - Criteria based on
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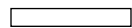
Location ID				SW-08	SW-08	SW-08	SW-08
Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Miscellaneous Parameters							
Cyanide	MG/L	-	-	0.01 U	0.01 U	0.01 U	0.010 U
Radionuclides							
Actinium 228 (Insoluble)	PCI/L	-	3270	3.381 U	58 U	59 U	85 U ± 4.60E+01
Actinium 228 (Soluble)	PCI/L	-	3270	11 U	47 U	56 U	50 U ± 1.10E+02
Barium 133 (Insoluble)	PCI/L	-	1520	0.5895 U	14 U	16 U	20 U ± 1.10E+01
Barium 133 (Soluble)	PCI/L	-	1520	2.279 U	15 U	13 U	12 U ± 6.90E+00
Bismuth 212 (Insoluble)	PCI/L	-	-	5.553 U	110 U	100 U	130 U ± 6.80E+01
Bismuth 212 (Soluble)	PCI/L	-	-	20.63 U	220 U	180 U	83 U ± 4.50E+01
Bismuth 214 (Insoluble)	PCI/L	-	18900	1.402 U	33 U	35 U	34 U ± 1.70E+01
Bismuth 214 (Soluble)	PCI/L	-	18900	4.298 U	32 U	34 U	32 U ± 1.80E+01
Cesium 134 (Insoluble)	PCI/L	-	80	0.653 U	14 U	15 U	25 U ± 1.40E+01
Cesium 134 (Soluble)	PCI/L	-	80	2.824 U	11 U	14 U	15 U ± 8.50E+00
Cesium 137 (Insoluble)	PCI/L	-	200	0.6423 U	13 U	19 U	20 U ± 1.10E+01
Cesium 137 (Soluble)	PCI/L	-	200	1.695 U	12 U	15 U	14 U ± 7.70E+00
Cobalt 60 (Insoluble)	PCI/L	-	100	0.9581 U	20 U	21 U	20 U ± 1.10E+01
Cobalt 60 (Soluble)	PCI/L	-	100	3.32 U	18 U	14 U	16 U ± 9.00E+00
Lead 212 (Insoluble)	PCI/L	-	123	2.8043 U ± 2.82E+00	17 U	24 U	31 U ± 2.70E+01
Lead 212 (Soluble)	PCI/L	-	123	3.978 U	21 U	20 U	18 U ± 9.50E+00
Lead 214 (Insoluble)	PCI/L	-	11800	1.347 U	22 U	35 U	40 U ± 2.10E+02
Lead 214 (Soluble)	PCI/L	-	11800	4.978 U	27 U	27 U	22 U ± 1.20E+01

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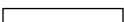
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Sample ID				SW-8	SW-08	SW-08-DUP	SW-08
Matrix				Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)				-	-	-	-
Date Sampled				05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units	Criteria (1)	Criteria (2)			Field Duplicate (1-1)	
Radionuclides							
Proactinium 234M (Insoluble)	PCI/L	-	-	124 U	1,900 U	2,300 U	2,500 U ± 1.30E+03
Proactinium 234M (Soluble)	PCI/L	-	-	327.8 U	1,400 U	1,600 U	1,600 U ± 1.00E+03
Potassium 40 (Insoluble)	PCI/L	-	-	12.46 U	170 U	230 U	350 U ± 6.50E+02
Potassium 40 (Soluble)	PCI/L	-	-	35.38 U	190 U	230 U	160 U ± 7.50E+01
Thallium 208 (Insoluble)	PCI/L	-	2.83E+05	0.7169 U	12 U	18 U	20 U ± 9.50E+00
Thallium 208 (Soluble)	PCI/L	-	2.83E+05	2.521 U	16 U	14 U	9.8 U ± 6.20E+00
Thorium 234 (Insoluble)	PCI/L	-	401	33.657 U ± 9.40E+01	130 U	150 U	260 U ± 3.40E+02
Thorium 234 (Soluble)	PCI/L	-	401	105.2 U	140 U	150 U	320 U ± 2.10E+02
Uranium 235 (Insoluble)	PCI/L	-	-	0.6506 U	45 U	60 U	81 U ± 4.60E+01
Uranium 235 (Soluble)	PCI/L	-	-	6.3831 U ± 5.01E+00	56 U	56 U	52 U ± 3.20E+01
Zinc 65 (Insoluble)	PCI/L	-	-	1.463 U	18 U	29 U	74 U ± 4.00E+01
Zinc 65 (Soluble)	PCI/L	-	-	4.482 U	36 U	31 U	31 U ± 1.70E+01

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

Flags assigned during chemistry validation are shown.

	Concentration Exceeds Criteria (1)
	Concentration Exceeds Criteria (2)

Criteria only shown for detected analytes.

J - The analyte was positively identified, the quantitation is an estimation. J- or J+ - The analyte was positively identified, the quantitation is an estimation with possible low (-) or high (+) bias.
U - Not detected above the reported quantitation limit. UJ - Not detected. The reported quantitation limit is an estimated value. R - The data is rejected.
D - Result reported from a secondary dilution analysis. NA - Not analyzed. E - High uncertainty was time corrected due to short half-life of isotope.

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1-Dichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1-Dichloroethene	UG/KG	2 U	2 U	14 U	14 U	2 U
1,2-Dichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloroethene (total)	UG/KG	NA	NA	28 U	27 U	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloropropane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	2 U	14 U	14 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	2 U	14 U	14 U	2 U
2-Hexanone	UG/KG	10 U	10 U	69 U	68 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	10 U	69 U	68 U	10 U
Acetone	UG/KG	32 J	489	110	68 U	32 J
Benzene	UG/KG	2 U	2 U	14 U	14 U	2 U
Bromodichloromethane	UG/KG	2 U	2 U	14 U	14 U	2 U
Bromoform	UG/KG	2 U	2 U	14 U	14 U	2 U
Bromomethane	UG/KG	10 U	10 U	14 U	14 U	10 U
Carbon disulfide	UG/KG	2 U	2 U	14 U	14 U	2 U
Carbon tetrachloride	UG/KG	2 U	2 U	14 U	14 U	2 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U	2 U	14 U	14 U	2 U
Chloroethane	UG/KG	10 U	10 U	14 U	14 U	10 U
Chloroform	UG/KG	2 U	2 U	NA	NA	2 U
Chloromethane	UG/KG	10 U	10 U	14 U	14 U	10 U
Dibromochloromethane	UG/KG	2 U	2 U	14 U	14 U	2 U
Ethylbenzene	UG/KG	2 U	2 U	14 U	14 U	2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	100	28 J	68 U	10 U
Methylene chloride	UG/KG	2 UJ	40 U	14 U	16 U	2 UJ
Styrene	UG/KG	2 U	2 U	14 U	14 U	2 U
Tetrachloroethene	UG/KG	2 U	2 U	14 U	14 U	2 U
Toluene	UG/KG	2 U	2 U	14 U	14 U	2 U
Trichloroethene	UG/KG	2 U	2 U	14 U	14 U	2 U
Vinyl acetate	UG/KG	10 U	10 U	NA	NA	10 U
Vinyl chloride	UG/KG	10 U	10 U	28 U	27 U	10 U
Xylene (total)	UG/KG	4 U	NA	41 U	41 U	4 U
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U	67 U	940 U	8,800 U	67 U
1,2-Dichlorobenzene	UG/KG	67 U	67 U	940 U	8,800 U	67 U
1,3-Dichlorobenzene	UG/KG	67 U	67 U	940 U	8,800 U	67 U
1,4-Dichlorobenzene	UG/KG	67 U	67 U	940 U	8,800 U	67 U
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	67 U	940 U	4,500 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	67 U	2,300 U	4,500 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2,4-Dinitrophenol	UG/KG	130 U	130 UJ	4,600 U	8,800 U	130 U
2,4-Dinitrotoluene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2-Chloronaphthalene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2-Chlorophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2-Methylnaphthalene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2-Methylphenol (o-cresol)	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2-Nitroaniline	UG/KG	67 U	67 U	4,600 U	8,800 U	67 U
2-Nitrophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
3&4-Methylphenol	UG/KG	130 U	130 U	NA	NA	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	67 U	4,600 U	4,500 U	67 U
3-Nitroaniline	UG/KG	67 U	67 U	4,600 U	8,800 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	130 U	4,600 U	8,800 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	67 U	940 U	4,500 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
4-Chloroaniline	UG/KG	67 U	67 U	940 U	4,500 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	67 U	940 U	4,500 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	NA	940 U	4,500 U	NA
4-Nitroaniline	UG/KG	67 U	67 U	4,600 U	NA	67 U
4-Nitrophenol	UG/KG	130 U	130 U	4,600 U	8,800 U	130 U
Acenaphthene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Acenaphthylene	UG/KG	67 U	67 U	150 J	4,500 U	67 U
Anthracene	UG/KG	67 U	67 U	110 J	4,500 U	67 U
Benzidine	UG/KG	330 U	330 U	NA	NA	330 U
Benzo(a)anthracene	UG/KG	67 U	804	460 J	570 J	491
Benzo(a)pyrene	UG/KG	67 U	1,690	760 J	730 J	671 J
Benzo(b)fluoranthene	UG/KG	67 U	2,310	1,800	1,500 J	913 J
Benzo(g,h,i)perylene	UG/KG	67 U	863	530 J	930 J	290 J
Benzo(k)fluoranthene	UG/KG	67 U	2,100	1,800	300 J	815 J
Benzoic acid	UG/KG	330 U	330 UJ	NA	NA	330 U
Benzyl alcohol	UG/KG	67 U	67 U	NA	NA	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	67 U	940 U	4,500 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	67 U	940 U	4,500 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	624 U	1,680	240 J	4,500 U	1,490 U
Butylbenzylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Carbazole	UG/KG	67 U	67 U	66 J	4,500 U	67 U
Chrysene	UG/KG	67 U	1,290	720 J	780 J	713
Dibenz(a,h)anthracene	UG/KG	67 U	243	110 J	230 J	67 UJ

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Diethylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Dimethylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Di-n-butylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Di-n-octylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 UJ
Fluoranthene	UG/KG	67 U	2,000	1,100	1,300 J	1,180
Fluorene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Hexachlorobenzene	UG/KG	67 U (690)	67 U (690)	940 U (690)	4,500 U (690)	67 U (247)
Hexachlorobutadiene	UG/KG	67 U (230)	67 U (230)	940 U (230)	4,500 U (230)	67 U (82.4)
Hexachlorocyclopentadiene	UG/KG	130 U	130 U	940 U	4,500 U	130 U
Hexachloroethane	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	787	480 J	760 J	254 J
Isophorone	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Naphthalene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Nitrobenzene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
N-Nitrosodimethylamine	UG/KG	NA	67 U	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	67 U	940 U	4,500 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Pentachlorophenol	UG/KG	130 U	130 U	4,600 U	8,800 U	130 U
Phenanthrene	UG/KG	67 U	528	320 J	380 J	446
Phenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

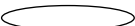
TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	67 U	3,270	820 J	980 J	1,470
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	41 U (80.5)	3.3 U (80.5)	47 U (80.5)	NA	240 UJ (28.8)
Aroclor 1221	UG/KG	41 U (80.5)	3.3 U (80.5)	47 U (80.5)	NA	240 UJ (28.8)
Aroclor 1232	UG/KG	41 U (80.5)	3.3 U (80.5)	47 U (80.5)	NA	240 UJ (28.8)
Aroclor 1242	UG/KG	41 U (80.5)	3.3 U (80.5)	47 U (80.5)	NA	240 UJ (28.8)
Aroclor 1248	UG/KG	41 U (80.5)	3.3 U (80.5)	47 U (80.5)	NA	240 UJ (28.8)
Aroclor 1254	UG/KG	41 U (80.5)	3.3 U (80.5)	47 U (80.5)	NA	240 UJ (28.8)
Aroclor 1260	UG/KG	41 U (80.5)	37.1 (80.5)	47 U (80.5)	NA	240 UJ (28.8)
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	1.73	3.5 J-	2.5 U	0.50 U
Percent Dry	PERCENT	40.6	NA	NA	NA	42.0
Total Organic Carbon (TOC)	MG/KG	57,500	57,500	57,500	57,500	20,600

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1-Dichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1-Dichloroethene	UG/KG	2 U	8 U	7 U	2 U	2 U
1,2-Dichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloroethene (total)	UG/KG	NA	16 U	14 U	NA	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloropropane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	8 U	7 U	2 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	8 U	7 U	2 U	2 U
2-Hexanone	UG/KG	10 U	40 U	36 U	10 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	40 U	36 U	10 U	10 U
Acetone	UG/KG	164	32 J	36 U	19 J	10 UJ
Benzene	UG/KG	2 U	8 U	7 U	2 U	2 U
Bromodichloromethane	UG/KG	2 U	8 U	7 U	2 U	2 U
Bromoform	UG/KG	2 U	8 U	7 U	2 U	2 U
Bromomethane	UG/KG	10 U	8 U	7 U	10 U	10 U
Carbon disulfide	UG/KG	2 U	8 U	2 J	2 U	2 U
Carbon tetrachloride	UG/KG	2 U	8 U	7 U	2 U	2 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Chlorobenzene	UG/KG	9	2 J	7 U	2 U	2 U
Chloroethane	UG/KG	10 U	8 U	7 U	10 U	10 U
Chloroform	UG/KG	2 U	NA	NA	2 U	2 U
Chloromethane	UG/KG	10 U	8 U	7 U	10 U	10 U
Dibromochloromethane	UG/KG	2 U	8 U	7 U	2 U	2 U
Ethylbenzene	UG/KG	2 U	8 U	7 U	2 U	2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	33	40 U	36 U	10 U	10 U
Methylene chloride	UG/KG	46 U	8 U	17 U	2 UJ	2 UJ
Styrene	UG/KG	2 U	8 U	7 U	2 U	2 U
Tetrachloroethene	UG/KG	2 U	8 U	7 U	2 U	2 U
Toluene	UG/KG	2 U	8 U	7 U	2 U	2 U
Trichloroethene	UG/KG	2 U	8 U	7 U	2 U	2 U
Vinyl acetate	UG/KG	10 U	NA	NA	10 U	10 U
Vinyl chloride	UG/KG	10 U	16 U	14 U	10 U	10 U
Xylene (total)	UG/KG	NA	24 U	22 U	4 U	4 U
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U	520 U	4,600 U	67 U	67 U
1,2-Dichlorobenzene	UG/KG	67 U	520 U	4,600 U	67 U	67 U
1,3-Dichlorobenzene	UG/KG	67 U	520 U	4,600 U	67 U	67 U
1,4-Dichlorobenzene	UG/KG	67 U	520 U	4,600 U	67 U	67 U
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	520 U	2,400 U	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	1,300 U	2,400 U	67 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2,4-Dinitrophenol	UG/KG	130 UJ	2,500 U	4,600 U	130 U	130 U
2,4-Dinitrotoluene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2-Chloronaphthalene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2-Chlorophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2-Methylnaphthalene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2-Methylphenol (o-cresol)	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2-Nitroaniline	UG/KG	67 U	2,500 U	4,600 U	67 U	67 U
2-Nitrophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
3&4-Methylphenol	UG/KG	130 U	NA	NA	130 U	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	2,500 U	2,400 U	67 U	67 U
3-Nitroaniline	UG/KG	67 U	2,500 U	4,600 U	67 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	2,500 U	4,600 U	130 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	520 U	2,400 U	67 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
4-Chloroaniline	UG/KG	67 U	520 U	2,400 U	67 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	520 U	2,400 U	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	230 J	2,400 U	NA	NA
4-Nitroaniline	UG/KG	67 U	2,500 U	NA	67 U	67 U
4-Nitrophenol	UG/KG	130 U	2,500 U	4,600 U	130 U	130 U
Acenaphthene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Acenaphthylene	UG/KG	67 U	42 J	2,400 U	67 U	67 U
Anthracene	UG/KG	67 U	43 J	2,400 U	67 U	67 U
Benzidine	UG/KG	330 U	NA	NA	330 U	330 U
Benzo(a)anthracene	UG/KG	415	230 J	340 J	405	238
Benzo(a)pyrene	UG/KG	758	340 J	430 J	416	286
Benzo(b)fluoranthene	UG/KG	1,080	780	710 J	481	357
Benzo(g,h,i)perylene	UG/KG	349	240 J	480 J	142	119
Benzo(k)fluoranthene	UG/KG	916	790	260 J	432	334
Benzoic acid	UG/KG	330 UJ	NA	NA	330 U	330 U
Benzyl alcohol	UG/KG	67 U	NA	NA	67 U	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	520 U	2,400 U	67 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	520 U	2,400 U	67 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	1,010	200 J	2,400 U	740 U	471 U
Butylbenzylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Carbazole	UG/KG	67 U	29 J	2,400 U	67 U	67 U
Chrysene	UG/KG	719	330 J	370 J	435	318
Dibenz(a,h)anthracene	UG/KG	67 U	57 J	130 J	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Diethylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Dimethylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Di-n-butylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Di-n-octylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Fluoranthene	UG/KG	1,330	550	700 J	540	361
Fluorene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Hexachlorobenzene	UG/KG	67 U (247)	520 U (247)	2,400 U (247)	67 U (368)	67 U (368)
Hexachlorobutadiene	UG/KG	67 U (82.4)	520 U (82.4)	2,400 U (82.4)	67 U (123)	67 U (123)
Hexachlorocyclopentadiene	UG/KG	130 U	520 U	2,400 U	130 U	130 U
Hexachloroethane	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	311	220 J	400 J	157	118
Isophorone	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Naphthalene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Nitrobenzene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
N-Nitrosodimethylamine	UG/KG	67 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	520 U	2,400 U	67 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Pentachlorophenol	UG/KG	130 U	2,500 U	4,600 U	130 U	130 U
Phenanthrene	UG/KG	419	170 J	210 J	147	67 U
Phenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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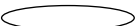
TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
Pyrene	UG/KG	1,270	400 J	570 J	576	370
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	3.3 U (28.8)	27 U (28.8)	NA	6.1 U (43.0)	5.4 U (43.0)
Aroclor 1221	UG/KG	3.3 U (28.8)	27 U (28.8)	NA	6.1 U (43.0)	5.4 U (43.0)
Aroclor 1232	UG/KG	3.3 U (28.8)	27 U (28.8)	NA	6.1 U (43.0)	5.4 U (43.0)
Aroclor 1242	UG/KG	3.3 U (28.8)	27 U (28.8)	NA	6.1 U (43.0)	5.4 U (43.0)
Aroclor 1248	UG/KG	102 (28.8)	27 U (28.8)	NA	6.1 U (43.0)	5.4 U (43.0)
Aroclor 1254	UG/KG	62 (28.8)	27 U (28.8)	NA	6.1 U (43.0)	5.4 U (43.0)
Aroclor 1260	UG/KG	30.7 (28.8)	27 U (28.8)	NA	6.1 U (43.0)	5.4 U (43.0)
Miscellaneous Parameters						
Cyanide	MG/KG	1.88	1.4 UJ	1.3 U	0.50 U	0.50 U
Percent Dry	PERCENT	NA	NA	NA	54.0	60.9
Total Organic Carbon (TOC)	MG/KG	20,600	20,600	20,600	30,700	30,700

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1-Dichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1-Dichloroethene	UG/KG	2 U	10 U	7 U	2 U	2 U
1,2-Dichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloroethene (total)	UG/KG	NA	20 U	14 U	NA	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloropropane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	10 U	7 U	2 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	10 U	7 U	2 U	2 U
2-Hexanone	UG/KG	10 U	50 U	36 U	10 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	50 U	36 U	10 U	10 U
Acetone	UG/KG	126	56	66 U	25 J	37
Benzene	UG/KG	2 U	10 U	7 U	2 U	2 U
Bromodichloromethane	UG/KG	2 U	10 U	7 U	2 U	2 U
Bromoform	UG/KG	2 U	10 U	7 U	2 U	2 U
Bromomethane	UG/KG	10 U	10 U	7 U	10 U	10 U
Carbon disulfide	UG/KG	2 U	10 U	2 J	2 U	2 U
Carbon tetrachloride	UG/KG	2 U	10 U	7 U	2 U	2 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

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NA - Not Analyzed

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U	10 U	7 U	2 U	2 U
Chloroethane	UG/KG	10 U	10 U	7 U	10 U	10 U
Chloroform	UG/KG	2 U	NA	NA	2 U	2 U
Chloromethane	UG/KG	10 U	10 U	7 U	10 U	10 U
Dibromochloromethane	UG/KG	2 U	10 U	7 U	2 U	2 U
Ethylbenzene	UG/KG	2 U	10 U	7 U	2 U	2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	29	13 J	11 J	10 U	14
Methylene chloride	UG/KG	50 U	10 U	26 U	2 UJ	29 U
Styrene	UG/KG	2 U	10 U	7 U	2 U	2 U
Tetrachloroethene	UG/KG	2 U	10 U	7 U	2 U	2 U
Toluene	UG/KG	2 U	8 J	4 J	2 U	2 U
Trichloroethene	UG/KG	2 U	10 U	7 U	2 U	2 U
Vinyl acetate	UG/KG	10 U	NA	NA	10 U	10 U
Vinyl chloride	UG/KG	10 U	20 U	14 U	10 U	10 U
Xylene (total)	UG/KG	NA	30 U	21 U	4 U	NA
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U	660 U	2,300 U	67 U	67 U
1,2-Dichlorobenzene	UG/KG	67 U	660 U	2,300 U	67 U	67 U
1,3-Dichlorobenzene	UG/KG	67 U	660 U	2,300 U	67 U	67 U
1,4-Dichlorobenzene	UG/KG	67 U	660 U	2,300 U	67 U	67 U
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	660 U	1,200 U	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	1,600 U	1,200 U	67 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2,4-Dinitrophenol	UG/KG	130 UJ	3,200 U	2,300 U	130 U	130 UJ
2,4-Dinitrotoluene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2-Chloronaphthalene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2-Chlorophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2-Methylnaphthalene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2-Methylphenol (o-cresol)	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2-Nitroaniline	UG/KG	67 U	3,200 U	2,300 U	67 U	67 U
2-Nitrophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
3&4-Methylphenol	UG/KG	130 U	NA	NA	130 U	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	3,200 U	1,200 U	67 U	67 U
3-Nitroaniline	UG/KG	67 U	3,200 U	2,300 U	67 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	3,200 U	2,300 U	130 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	660 U	1,200 U	67 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
4-Chloroaniline	UG/KG	67 U	660 U	1,200 U	67 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	660 U	1,200 U	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	280 J	460 J	NA	NA
4-Nitroaniline	UG/KG	67 U	3,200 U	NA	67 U	67 U
4-Nitrophenol	UG/KG	130 U	3,200 U	2,300 U	130 U	130 U
Acenaphthene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Acenaphthylene	UG/KG	67 U	68 J	1,200 U	67 U	67 U
Anthracene	UG/KG	67 U	53 J	1,200 U	67 U	67 U
Benzidine	UG/KG	330 U	NA	NA	330 U	330 U
Benzo(a)anthracene	UG/KG	417	420 J	190 J	205	67 U
Benzo(a)pyrene	UG/KG	622	620 J	220 J	221 J	97
Benzo(b)fluoranthene	UG/KG	847	1,400	360 J	236 J	67 U
Benzo(g,h,i)perylene	UG/KG	251	340 J	260 J	67 UJ	67 U
Benzo(k)fluoranthene	UG/KG	641	1,400	130 J	289 J	101
Benzoic acid	UG/KG	330 UJ	NA	NA	330 U	330 UJ
Benzyl alcohol	UG/KG	67 U	NA	NA	67 U	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	660 U	1,200 U	67 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	660 U	1,200 U	67 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	1,060	240 J	1,200 U	1,170 U	135
Butylbenzylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Carbazole	UG/KG	67 U	46 J	1,200 U	67 U	67 U
Chrysene	UG/KG	665	580 J	260 J	244	67 U
Dibenz(a,h)anthracene	UG/KG	67 U	88 J	65 J	67 UJ	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Diethylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Dimethylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Di-n-butylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Di-n-octylphthalate	UG/KG	67 U	660 U	1,200 U	67 UJ	67 U
Fluoranthene	UG/KG	1,450	840	390 J	449	128
Fluorene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Hexachlorobenzene	UG/KG	67 U (368)	660 U (368)	1,200 U (368)	67 U (646)	67 U (646)
Hexachlorobutadiene	UG/KG	67 U (123)	660 U (123)	1,200 U (123)	67 U (215)	67 U (215)
Hexachlorocyclopentadiene	UG/KG	130 U	660 U	1,200 U	130 U	130 U
Hexachloroethane	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	241	330 J	200 J	67 UJ	67 U
Isophorone	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Naphthalene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Nitrobenzene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
N-Nitrosodimethylamine	UG/KG	67 U	NA	NA	NA	67 U
N-Nitroso-di-n-propylamine	UG/KG	67 U	660 U	1,200 U	67 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Pentachlorophenol	UG/KG	130 U	3,200 U	2,300 U	130 U	130 U
Phenanthrene	UG/KG	576	220 J	120 J	243	67 U
Phenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	1,200	600 J	310 J	488	146
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	3.3 U (43.0)	34 U (43.0)	NA	84 U (75.3)	3.3 U (75.3)
Aroclor 1221	UG/KG	3.3 U (43.0)	34 U (43.0)	NA	84 U (75.3)	3.3 U (75.3)
Aroclor 1232	UG/KG	3.3 U (43.0)	34 U (43.0)	NA	84 U (75.3)	3.3 U (75.3)
Aroclor 1242	UG/KG	3.3 U (43.0)	34 U (43.0)	NA	84 U (75.3)	3.3 U (75.3)
Aroclor 1248	UG/KG	3.3 U (43.0)	34 U (43.0)	NA	84 U (75.3)	3.3 U (75.3)
Aroclor 1254	UG/KG	3.3 U (43.0)	34 U (43.0)	NA	84 U (75.3)	3.3 U (75.3)
Aroclor 1260	UG/KG	3.52 (43.0)	34 U (43.0)	NA	84 U (75.3)	3.3 U (75.3)
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	1.8 UJ	1.3 U	0.50 U	0.50 U
Percent Dry	PERCENT	NA	NA	NA	39.1	NA
Total Organic Carbon (TOC)	MG/KG	30,700	30,700	30,700	53,800	53,800

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1,2-Trichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1-Dichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1-Dichloroethene	UG/KG	14 U	14 U	12 U	2 U	2 U
1,2-Dichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,2-Dichloroethene (cis)	UG/KG	NA	NA	NA	2 U	2 U
1,2-Dichloroethene (total)	UG/KG	29 U	27 U	25 U	NA	NA
1,2-Dichloroethene (trans)	UG/KG	NA	NA	NA	2 U	2 U
1,2-Dichloropropane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,3-Dichloropropene (cis)	UG/KG	14 U	14 U	12 U	2 U	2 U
1,3-Dichloropropene (trans)	UG/KG	14 U	14 U	12 U	2 U	2 U
2-Hexanone	UG/KG	73 U	68 U	62 U	10 U	10 U
4-Methyl-2-pentanone	UG/KG	73 U	68 U	62 U	10 U	10 U
Acetone	UG/KG	42 J	92 U	62 U	10 UJ	39
Benzene	UG/KG	14 U	14 U	12 U	2 U	2 U
Bromodichloromethane	UG/KG	14 U	14 U	12 U	2 U	2 U
Bromoform	UG/KG	14 U	14 U	12 U	2 U	2 U
Bromomethane	UG/KG	14 U	14 U	12 U	10 U	10 U
Carbon disulfide	UG/KG	14 U	4 J	12 U	2 U	2 U
Carbon tetrachloride	UG/KG	14 U	14 U	12 U	2 U	2 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Volatile Organic Compounds						
Chlorobenzene	UG/KG	14 U	14 U	12 U	2 U	2 U
Chloroethane	UG/KG	14 U	14 U	12 U	10 U	10 U
Chloroform	UG/KG	NA	NA	NA	2 U	2 U
Chloromethane	UG/KG	14 U	14 U	12 U	10 U	10 U
Dibromochloromethane	UG/KG	14 U	14 U	12 U	2 U	2 U
Ethylbenzene	UG/KG	14 U	14 U	12 U	2 U	2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	73 U	22 J	62 U	10 U	10 U
Methylene chloride	UG/KG	14 U	61	18 U	2 UJ	27 U
Styrene	UG/KG	14 U	14 U	12 U	2 U	2 U
Tetrachloroethene	UG/KG	14 U	14 U	12 U	2 U	2 U
Toluene	UG/KG	14 U	14 U	12 U	2 U	2 U
Trichloroethene	UG/KG	14 U	14 U	12 U	2 U	2 U
Vinyl acetate	UG/KG	NA	NA	NA	10 U	10 U
Vinyl chloride	UG/KG	29 U	27 U	25 U	10 U	10 U
Xylene (total)	UG/KG	44 U	41 U	37 U	4 U	NA
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	940 U	6,600 U	7,500 U	67 U	67 U
1,2-Dichlorobenzene	UG/KG	940 U	6,600 U	7,500 U	67 U	67 U
1,3-Dichlorobenzene	UG/KG	940 U	6,600 U	7,500 U	67 U	67 U
1,4-Dichlorobenzene	UG/KG	940 U	6,600 U	7,500 U	67 U	67 U
2,2'-oxybis(1-Chloropropane)	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	2,300 U	3,400 U	3,900 U	67 U	67 U
2,4,6-Trichlorophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2,4-Dichlorophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2,4-Dimethylphenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2,4-Dinitrophenol	UG/KG	4,600 U	6,600 U	7,500 U	130 U	130 UJ
2,4-Dinitrotoluene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
2,6-Dinitrotoluene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
2-Chloronaphthalene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
2-Chlorophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2-Methylnaphthalene	UG/KG	940 U	180 J	3,900 U	67 U	67 U
2-Methylphenol (o-cresol)	UG/KG	64 J	3,400 U	3,900 U	67 U	67 U
2-Nitroaniline	UG/KG	4,600 U	6,600 U	7,500 U	67 U	67 U
2-Nitrophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
3&4-Methylphenol	UG/KG	NA	NA	NA	130 U	130 U
3,3'-Dichlorobenzidine	UG/KG	4,600 U	3,400 U	3,900 U	67 U	67 U
3-Nitroaniline	UG/KG	4,600 U	6,600 U	7,500 U	67 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	4,600 U	6,600 U	7,500 U	130 U	130 U
4-Bromophenyl-phenylether	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
4-Chloro-3-methylphenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
4-Chloroaniline	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
4-Chlorophenyl-phenylether	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	220 J	3,400 U	3,900 U	NA	NA
4-Nitroaniline	UG/KG	4,600 U	NA	NA	67 U	67 U
4-Nitrophenol	UG/KG	4,600 U	6,600 U	7,500 U	130 U	130 U
Acenaphthene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Acenaphthylene	UG/KG	70 J	140 J	3,900 U	67 U	67 U
Anthracene	UG/KG	80 J	3,400 U	3,900 U	67 U	67 U
Benzidine	UG/KG	NA	NA	NA	330 U	330 U
Benzo(a)anthracene	UG/KG	380 J	560 J	360 J	67 U	67 U
Benzo(a)pyrene	UG/KG	480 J	540 J	460 J	67 U	67 U
Benzo(b)fluoranthene	UG/KG	790 J	980 J	720 J	67 U	67 U
Benzo(g,h,i)perylene	UG/KG	240 J	540 J	610 J	67 U	67 U
Benzo(k)fluoranthene	UG/KG	220 J	3,400 U	270 J	67 U	67 U
Benzoic acid	UG/KG	NA	NA	NA	330 U	330 UJ
Benzyl alcohol	UG/KG	NA	NA	NA	67 U	67 U
bis(2-Chloroethoxy)methane	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
bis(2-Chloroethyl)ether	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	940 U	3,400 U	4,600 U	336 U	135
Butylbenzylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Carbazole	UG/KG	52 J	3,400 U	3,900 U	67 U	67 U
Chrysene	UG/KG	420 J	490 J	510 J	67 U	67 U
Dibenz(a,h)anthracene	UG/KG	63 J	140 J	3,900 U	67 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Diethylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Dimethylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Di-n-butylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Di-n-octylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Fluoranthene	UG/KG	800 J	930 J	880 J	67 U	67 U
Fluorene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Hexachlorobenzene	UG/KG	940 U (646)	3,400 U (911)	3,900 U (646)	67 U (488)	67 U (488)
Hexachlorobutadiene	UG/KG	940 U (215)	3,400 U (304)	3,900 U (215)	67 U (163)	67 U (163)
Hexachlorocyclopentadiene	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
Hexachloroethane	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	220 J	480 J	460 J	67 U	67 U
Isophorone	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Naphthalene	UG/KG	940 U	3,500	3,900 U	67 U	67 U
Nitrobenzene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
N-Nitrosodimethylamine	UG/KG	NA	NA	NA	NA	67 U
N-Nitroso-di-n-propylamine	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
N-Nitrosodiphenylamine	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Pentachlorophenol	UG/KG	4,600 U	6,600 U	7,500 U	130 U	130 U
Phenanthrene	UG/KG	330 J	540 J	410 J	67 U	67 U
Phenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
Pyrene	UG/KG	540 J	730 J	650 J	67 U	67 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	47 U (75.3)	NA	NA	4.8 U (57.0)	3.3 U (57.0)
Aroclor 1221	UG/KG	47 U (75.3)	NA	NA	4.8 U (57.0)	3.3 U (57.0)
Aroclor 1232	UG/KG	47 U (75.3)	NA	NA	4.8 U (57.0)	3.3 U (57.0)
Aroclor 1242	UG/KG	47 U (75.3)	NA	NA	4.8 U (57.0)	3.3 U (57.0)
Aroclor 1248	UG/KG	47 U (75.3)	NA	NA	4.8 U (57.0)	3.3 U (57.0)
Aroclor 1254	UG/KG	47 U (75.3)	NA	NA	4.8 U (57.0)	3.3 U (57.0)
Aroclor 1260	UG/KG	47 U (75.3)	NA	NA	4.8 U (57.0)	3.3 U (57.0)
Miscellaneous Parameters						
Cyanide	MG/KG	2.6 UJ	2.0 U	1.8 U	0.50 U	0.50 U
Percent Dry	PERCENT	NA	NA	NA	68.6	NA
Total Organic Carbon (TOC)	MG/KG	53,800	75,900	53,800	40,689	40,689

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1,2-Trichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1-Dichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1-Dichloroethene	UG/KG	2 U	2 U	2 U	7 U	9 U
1,2-Dichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,2-Dichloroethene (cis)	UG/KG	2 U	2 U	2 U	NA	NA
1,2-Dichloroethene (total)	UG/KG	NA	NA	NA	13 U	18 U
1,2-Dichloroethene (trans)	UG/KG	2 U	2 U	2 U	NA	NA
1,2-Dichloropropane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,3-Dichloropropene (cis)	UG/KG	2 U	2 U	2 U	7 U	9 U
1,3-Dichloropropene (trans)	UG/KG	2 U	2 U	2 U	7 U	9 U
2-Hexanone	UG/KG	10 U	10 U	10 U	33 U	45 U
4-Methyl-2-pentanone	UG/KG	10 U	10 U	10 U	33 U	45 U
Acetone	UG/KG	20 J	22	48	33 U	45 U
Benzene	UG/KG	2 U	2 U	2 U	7 U	9 U
Bromodichloromethane	UG/KG	2 U	2 U	2 U	7 U	9 U
Bromoform	UG/KG	2 U	2 U	2 U	7 U	9 U
Bromomethane	UG/KG	10 U	10 U	10 U	7 U	9 U
Carbon disulfide	UG/KG	2 U	2 U	2 U	7 U	3 J
Carbon tetrachloride	UG/KG	2 U	2 U	2 U	7 U	9 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U	2 U	2 U	7 U	9 U
Chloroethane	UG/KG	10 U	10 U	10 U	7 U	9 U
Chloroform	UG/KG	2 U	2 U	2 U	NA	NA
Chloromethane	UG/KG	10 U	10 U	10 U	7 U	9 U
Dibromochloromethane	UG/KG	2 U	2 U	2 U	7 U	9 U
Ethylbenzene	UG/KG	2 U	2 U	2 U	7 U	9 U
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	10 U	10 U	33 U	45 U
Methylene chloride	UG/KG	2 UJ	24 U	35 U	7 U	24 U
Styrene	UG/KG	2 U	2 U	2 U	7 U	9 U
Tetrachloroethene	UG/KG	2 U	2 U	2 U	7 U	9 U
Toluene	UG/KG	2 U	2 U	2 U	7 U	9 U
Trichloroethene	UG/KG	2 U	2 U	2 U	7 U	9 U
Vinyl acetate	UG/KG	10 U	10 U	10 U	NA	NA
Vinyl chloride	UG/KG	10 U	10 U	10 U	13 U	18 U
Xylene (total)	UG/KG	4 U	NA	NA	20 U	27 U
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U	67 U	67 U	430 U	580 U
1,2-Dichlorobenzene	UG/KG	67 U	67 U	67 U	430 U	580 U
1,3-Dichlorobenzene	UG/KG	67 U	67 U	67 U	430 U	580 U
1,4-Dichlorobenzene	UG/KG	67 U	67 U	67 U	430 U	580 U
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	67 U	67 U	430 U	300 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	67 U	67 U	1,000 U	300 U
2,4,6-Trichlorophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2,4-Dichlorophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2,4-Dimethylphenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2,4-Dinitrophenol	UG/KG	130 U	130 UJ	130 UJ	2,100 U	580 U
2,4-Dinitrotoluene	UG/KG	67 U	67 U	67 U	430 U	300 U
2,6-Dinitrotoluene	UG/KG	67 U	67 U	67 U	430 U	300 U
2-Chloronaphthalene	UG/KG	67 U	67 U	67 U	430 U	300 U
2-Chlorophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2-Methylnaphthalene	UG/KG	67 U	67 U	67 U	430 U	60 J
2-Methylphenol (o-cresol)	UG/KG	67 U	67 U	67 U	430 U	300 U
2-Nitroaniline	UG/KG	67 U	67 U	67 U	2,100 U	580 U
2-Nitrophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
3&4-Methylphenol	UG/KG	130 U	130 U	130 U	NA	NA
3,3'-Dichlorobenzidine	UG/KG	67 U	67 U	67 U	2,100 U	300 U
3-Nitroaniline	UG/KG	67 U	67 U	67 U	2,100 U	580 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	130 U	130 U	2,100 U	580 U
4-Bromophenyl-phenylether	UG/KG	67 U	67 U	67 U	430 U	300 U
4-Chloro-3-methylphenol	UG/KG	130 U	130 U	130 U	430 U	300 U
4-Chloroaniline	UG/KG	67 U	67 U	67 U	430 U	300 U
4-Chlorophenyl-phenylether	UG/KG	67 U	67 U	67 U	430 U	300 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	NA	NA	430 U	300 U
4-Nitroaniline	UG/KG	67 U	67 U	67 U	2,100 U	NA
4-Nitrophenol	UG/KG	130 U	130 U	130 U	2,100 U	580 U
Acenaphthene	UG/KG	67 U	67 U	67 U	430 U	14 J
Acenaphthylene	UG/KG	67 U	67 U	67 U	430 U	36 J
Anthracene	UG/KG	67 U	67 U	67 U	22 J	52 J
Benzidine	UG/KG	330 U	330 U	330 U	NA	NA
Benzo(a)anthracene	UG/KG	67 U	67 U	67 U	97 J	210 J
Benzo(a)pyrene	UG/KG	67 U	67 U	67 U	90 J	220 J
Benzo(b)fluoranthene	UG/KG	67 U	67 U	67 U	190 J	350
Benzo(g,h,i)perylene	UG/KG	67 U	67 U	67 U	38 J	220 J
Benzo(k)fluoranthene	UG/KG	67 U	67 U	67 U	190 J	120 J
Benzoic acid	UG/KG	330 U	330 UJ	330 UJ	NA	NA
Benzyl alcohol	UG/KG	67 U	67 U	67 U	NA	NA
bis(2-Chloroethoxy)methane	UG/KG	67 U	67 U	67 U	430 U	300 U
bis(2-Chloroethyl)ether	UG/KG	67 U	67 U	67 U	430 U	300 U
bis(2-Ethylhexyl)phthalate	UG/KG	1,140 U	115	136	430 U	470 U
Butylbenzylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Carbazole	UG/KG	67 U	67 U	67 U	430 U	40 J
Chrysene	UG/KG	67 U	67 U	67 U	97 J	280 J
Dibenz(a,h)anthracene	UG/KG	67 U	67 U	67 U	430 U	50 J

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

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Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	67 U	67 U	430 U	21 J
Diethylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Dimethylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Di-n-butylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Di-n-octylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Fluoranthene	UG/KG	67 U	135	67 U	230 J	510
Fluorene	UG/KG	67 U	67 U	67 U	23 J	31 J
Hexachlorobenzene	UG/KG	67 U (388)	67 U (388)	67 U (388)	430 U (388)	300 U (388)
Hexachlorobutadiene	UG/KG	67 U (129)	67 U (129)	67 U (129)	430 U (129)	300 U (129)
Hexachlorocyclopentadiene	UG/KG	130 U	130 U	130 U	430 U	300 U
Hexachloroethane	UG/KG	67 U	67 U	67 U	430 U	300 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	67 U	67 U	42 J	180 J
Isophorone	UG/KG	67 U	67 U	67 U	430 U	300 U
Naphthalene	UG/KG	67 U	67 U	67 U	430 U	480
Nitrobenzene	UG/KG	67 U	67 U	67 U	430 U	300 U
N-Nitrosodimethylamine	UG/KG	NA	67 U	67 U	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	67 U	67 U	430 U	300 U
N-Nitrosodiphenylamine	UG/KG	67 U	67 U	67 U	430 U	300 U
Pentachlorophenol	UG/KG	130 U	130 U	130 U	2,100 U	580 U
Phenanthrene	UG/KG	67 U	112	67 U	160 J	290 J
Phenol	UG/KG	130 U	130 U	130 U	430 U	300 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Pyrene	UG/KG	67 U	67 U	67 U	130 J	370
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	5.4 U (45.2)	3.3 U (45.2)	3.3 U (45.2)	22 U (45.2)	NA
Aroclor 1221	UG/KG	5.4 U (45.2)	3.3 U (45.2)	3.3 U (45.2)	22 U (45.2)	NA
Aroclor 1232	UG/KG	5.4 U (45.2)	3.3 U (45.2)	3.3 U (45.2)	22 U (45.2)	NA
Aroclor 1242	UG/KG	5.4 U (45.2)	3.3 U (45.2)	3.3 U (45.2)	22 U (45.2)	NA
Aroclor 1248	UG/KG	5.4 U (45.2)	3.3 U (45.2)	3.3 U (45.2)	22 U (45.2)	NA
Aroclor 1254	UG/KG	5.4 U (45.2)	3.3 U (45.2)	3.3 U (45.2)	22 U (45.2)	NA
Aroclor 1260	UG/KG	5.4 U (45.2)	3.3 U (45.2)	3.3 U (45.2)	22 U (45.2)	NA
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	0.50 U	0.50 U	1.1 J-	1.6 U
Percent Dry	PERCENT	61.1	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	32,300	32,300	32,300	32,300	32,300

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1-Dichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1-Dichloroethene	UG/KG	2 U	2 U	9 U	8 U	2 U
1,2-Dichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloroethene (total)	UG/KG	NA	NA	18 U	16 U	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloropropane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	2 U	9 U	8 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	2 U	9 U	8 U	2 U
2-Hexanone	UG/KG	10 U	10 U	45 U	40 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	10 U	45 U	40 U	10 U
Acetone	UG/KG	10 UJ	105	40 J	40 U	10 UJ
Benzene	UG/KG	2 U	2 U	9 U	8 U	2 U
Bromodichloromethane	UG/KG	2 U	2 U	9 U	8 U	2 U
Bromoform	UG/KG	2 U	2 U	9 U	8 U	2 U
Bromomethane	UG/KG	10 U	10 U	9 U	8 U	10 U
Carbon disulfide	UG/KG	2 U	2 U	9 U	3 J	2 U
Carbon tetrachloride	UG/KG	2 U	2 U	9 U	8 U	2 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U	2 U	9 U	8 U	2 U
Chloroethane	UG/KG	10 U	10 U	9 U	8 U	10 U
Chloroform	UG/KG	2 U	2 U	NA	NA	2 U
Chloromethane	UG/KG	10 U	10 U	9 U	8 U	10 U
Dibromochloromethane	UG/KG	2 U	2 U	9 U	8 U	2 U
Ethylbenzene	UG/KG	2 U	2 U	9 U	8 U	2 U
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	22	45 U	40 U	10 U
Methylene chloride	UG/KG	2 UJ	32 U	9 U	17 U	2 UJ
Styrene	UG/KG	2 U	2 U	9 U	8 U	2 U
Tetrachloroethene	UG/KG	2 U	2 U	9 U	8 U	2 U
Toluene	UG/KG	2 U	2 U	9 U	8 U	2 U
Trichloroethene	UG/KG	2 U	2 U	9 U	8 U	2 U
Vinyl acetate	UG/KG	10 U	10 U	NA	NA	10 U
Vinyl chloride	UG/KG	10 U	10 U	18 U	16 U	10 U
Xylene (total)	UG/KG	4 U	NA	27 U	24 U	4 U
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U	67 U	590 U	490 U	67 U
1,2-Dichlorobenzene	UG/KG	67 U	67 U	590 U	490 U	67 U
1,3-Dichlorobenzene	UG/KG	67 U	67 U	590 U	490 U	67 U
1,4-Dichlorobenzene	UG/KG	67 U	67 U	590 U	490 U	67 U
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	67 U	590 U	250 U	67 U

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TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	67 U	1,400 U	250 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2,4-Dinitrophenol	UG/KG	130 U	130 UJ	2,900 U	490 U	130 U
2,4-Dinitrotoluene	UG/KG	67 U	67 U	590 U	250 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	67 U	590 U	250 U	67 U
2-Chloronaphthalene	UG/KG	67 U	67 U	590 U	250 U	67 U
2-Chlorophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2-Methylnaphthalene	UG/KG	67 U	67 U	590 U	150 J	67 U
2-Methylphenol (o-cresol)	UG/KG	67 U	67 U	590 U	18 J	67 U
2-Nitroaniline	UG/KG	67 U	67 U	2,900 U	490 U	67 U
2-Nitrophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
3&4-Methylphenol	UG/KG	130 U	130 U	NA	NA	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	67 U	2,900 U	250 U	67 UJ
3-Nitroaniline	UG/KG	67 U	67 U	2,900 U	490 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	130 U	2,900 U	490 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	67 U	590 U	250 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	130 U	590 U	250 U	130 U
4-Chloroaniline	UG/KG	67 U	67 U	590 U	250 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	67 U	590 U	250 U	67 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	NA	590 U	29 J	NA
4-Nitroaniline	UG/KG	67 U	67 U	2,900 U	NA	67 U
4-Nitrophenol	UG/KG	130 U	130 U	2,900 U	490 U	130 U
Acenaphthene	UG/KG	67 U	67 U	590 U	250 U	67 U
Acenaphthylene	UG/KG	67 U	67 U	86 J	47 J	67 U
Anthracene	UG/KG	67 U	67 U	49 J	20 J	67 U
Benzidine	UG/KG	330 U	330 U	NA	NA	330 U
Benzo(a)anthracene	UG/KG	67 U	67 U	300 J	73 J	397 J
Benzo(a)pyrene	UG/KG	67 U	67 U	290 J	56 J	399 J
Benzo(b)fluoranthene	UG/KG	67 U	67 U	590	110 J	429 J
Benzo(g,h,i)perylene	UG/KG	67 U	67 U	97 J	50 J	174 J
Benzo(k)fluoranthene	UG/KG	67 U	67 U	600	250 U	427 J
Benzoic acid	UG/KG	330 U	330 UJ	NA	NA	330 U
Benzyl alcohol	UG/KG	67 U	67 U	NA	NA	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	67 U	590 U	250 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	67 U	590 U	250 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	738 U	159	590 U	2,800 U	873 U
Butylbenzylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 UJ
Carbazole	UG/KG	67 U	67 U	590 U	10 J	67 U
Chrysene	UG/KG	67 U	67 U	310 J	66 J	419 J
Dibenz(a,h)anthracene	UG/KG	67 U	67 U	36 J	13 J	67 UJ

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	67 U	590 U	25 J	67 U
Diethylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 U
Dimethylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 U
Di-n-butylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 U
Di-n-octylphthalate	UG/KG	67 U	67 U	590 U	18 J	67 UJ
Fluoranthene	UG/KG	67 U	67 U	350 J	120 J	601
Fluorene	UG/KG	67 U	67 U	590 U	250 U	67 U
Hexachlorobenzene	UG/KG	67 U (113)	67 U (113)	590 U (113)	250 U (113)	67 U (966)
Hexachlorobutadiene	UG/KG	67 U (37.7)	67 U (37.7)	590 U (37.7)	250 U (37.7)	67 U (322)
Hexachlorocyclopentadiene	UG/KG	130 U	130 U	590 U	250 U	130 U
Hexachloroethane	UG/KG	67 U	67 U	590 U	250 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	67 U	99 J	45 J	134 J
Isophorone	UG/KG	67 U	67 U	590 U	250 U	67 U
Naphthalene	UG/KG	67 U	67 U	590 U	1,500	67 U
Nitrobenzene	UG/KG	67 U	67 U	590 U	250 U	67 U
N-Nitrosodimethylamine	UG/KG	NA	67 U	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	67 U	590 U	250 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	67 U	590 U	250 U	67 U
Pentachlorophenol	UG/KG	130 U	130 U	2,900 U	490 U	130 U
Phenanthrene	UG/KG	67 U	67 U	43 J	50 J	326
Phenol	UG/KG	130 U	130 U	590 U	250 U	130 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

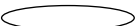
TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	67 U	67 U	360 J	110 J	1,430 J
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	5.1 U (13.2)	3.3 U (13.2)	29 U (13.2)	NA	600 U (113)
Aroclor 1221	UG/KG	5.1 U (13.2)	3.3 U (13.2)	29 U (13.2)	NA	600 U (113)
Aroclor 1232	UG/KG	5.1 U (13.2)	3.3 U (13.2)	29 U (13.2)	NA	600 U (113)
Aroclor 1242	UG/KG	5.1 U (13.2)	3.3 U (13.2)	29 U (13.2)	NA	600 U (113)
Aroclor 1248	UG/KG	5.1 U (13.2)	118 (13.2)	34 (13.2)	NA	600 U (113)
Aroclor 1254	UG/KG	5.1 U (13.2)	3.3 U (13.2)	29 U (13.2)	NA	600 U (113)
Aroclor 1260	UG/KG	5.1 U (13.2)	3.3 U (13.2)	29 U (13.2)	NA	600 U (113)
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	2.86	1.5 UJ	1.5 U	1.14
Percent Dry	PERCENT	64.1	NA	NA	NA	59.0
Total Organic Carbon (TOC)	MG/KG	9,420	9,420	9,420	9,420	80,500

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1,2-Trichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1-Dichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1-Dichloroethene	UG/KG	2 U	10 U	7 U	8 U
1,2-Dichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,2-Dichloroethene (cis)	UG/KG	2 U	NA	NA	NA
1,2-Dichloroethene (total)	UG/KG	NA	21 U	14 U	17 U
1,2-Dichloroethene (trans)	UG/KG	2 U	NA	NA	NA
1,2-Dichloropropane	UG/KG	2 U	10 U	7 U	8 U
1,3-Dichloropropene (cis)	UG/KG	2 U	10 U	7 U	8 U
1,3-Dichloropropene (trans)	UG/KG	2 U	10 U	7 U	8 U
2-Hexanone	UG/KG	10 U	52 U	36 U	42 U
4-Methyl-2-pentanone	UG/KG	10 U	52 U	36 U	42 U
Acetone	UG/KG	75	22 J	16 J	42 U
Benzene	UG/KG	2 U	10 U	7 U	8 U
Bromodichloromethane	UG/KG	2 U	10 U	7 U	8 U
Bromoform	UG/KG	2 U	10 U	7 U	8 U
Bromomethane	UG/KG	10 U	10 U	7 U	8 U
Carbon disulfide	UG/KG	2 U	10 U	7 U	8 U
Carbon tetrachloride	UG/KG	2 U	10 U	7 U	8 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Volatile Organic Compounds					
Chlorobenzene	UG/KG	2 U	10 U	7 U	8 U
Chloroethane	UG/KG	10 U	10 U	7 U	8 U
Chloroform	UG/KG	2 U	NA	NA	NA
Chloromethane	UG/KG	10 U	10 U	7 U	8 U
Dibromochloromethane	UG/KG	2 U	10 U	7 U	8 U
Ethylbenzene	UG/KG	2 U	10 U	7 U	8 U
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	52 U	11 J	42 U
Methylene chloride	UG/KG	55 U	10 U	7 U	12 U
Styrene	UG/KG	2 U	10 U	7 U	8 U
Tetrachloroethene	UG/KG	2 U	10 U	7 U	8 U
Toluene	UG/KG	2 U	10 U	7 U	8 U
Trichloroethene	UG/KG	2 U	10 U	7 U	8 U
Vinyl acetate	UG/KG	10 U	NA	NA	NA
Vinyl chloride	UG/KG	10 U	21 U	14 U	17 U
Xylene (total)	UG/KG	NA	31 U	21 U	25 U
Semivolatile Organic Compounds					
1,2,4-Trichlorobenzene	UG/KG	67 U	3,500 U	2,300 U	7,100 U
1,2-Dichlorobenzene	UG/KG	67 U	3,500 U	2,300 U	7,100 U
1,3-Dichlorobenzene	UG/KG	67 U	3,500 U	2,300 U	7,100 U
1,4-Dichlorobenzene	UG/KG	67 U	3,500 U	2,300 U	7,100 U
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	3,500 U	2,300 U	3,600 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
2,4,5-Trichlorophenol	UG/KG	67 U	8,400 U	5,700 U	3,600 U
2,4,6-Trichlorophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2,4-Dichlorophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2,4-Dimethylphenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2,4-Dinitrophenol	UG/KG	130 UJ	17,000 U	11,000 U	7,100 U
2,4-Dinitrotoluene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2,6-Dinitrotoluene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2-Chloronaphthalene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2-Chlorophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2-Methylnaphthalene	UG/KG	67 U	3,500 U	2,300 U	330 J
2-Methylphenol (o-cresol)	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2-Nitroaniline	UG/KG	67 U	17,000 U	11,000 U	7,100 U
2-Nitrophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
3&4-Methylphenol	UG/KG	130 U	NA	NA	NA
3,3'-Dichlorobenzidine	UG/KG	67 U	17,000 U	11,000 U	3,600 U
3-Nitroaniline	UG/KG	67 U	17,000 U	11,000 U	7,100 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	17,000 U	11,000 U	7,100 U
4-Bromophenyl-phenylether	UG/KG	67 U	3,500 U	2,300 U	3,600 U
4-Chloro-3-methylphenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
4-Chloroaniline	UG/KG	67 U	3,500 U	2,300 U	3,600 U
4-Chlorophenyl-phenylether	UG/KG	67 U	3,500 U	2,300 U	3,600 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
4-Methylphenol (p-cresol)	UG/KG	NA	250 J	2,300 U	3,600 U
4-Nitroaniline	UG/KG	67 U	17,000 U	11,000 U	NA
4-Nitrophenol	UG/KG	130 U	17,000 U	11,000 U	7,100 U
Acenaphthene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Acenaphthylene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Anthracene	UG/KG	67 U	3,500 U	2,300 U	250 J
Benidine	UG/KG	330 U	NA	NA	NA
Benzo(a)anthracene	UG/KG	225	460 J	360 J	910 J
Benzo(a)pyrene	UG/KG	284	540 J	500 J	1,100 J
Benzo(b)fluoranthene	UG/KG	346	1,100 J	1,200 J	1,700 J
Benzo(g,h,i)perylene	UG/KG	67 U	430 J	320 J	1,400 J
Benzo(k)fluoranthene	UG/KG	329	260 J	1,200 J	530 J
Benzoic acid	UG/KG	330 UJ	NA	NA	NA
Benzyl alcohol	UG/KG	67 U	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/KG	67 U	3,500 U	2,300 U	3,600 U
bis(2-Chloroethyl)ether	UG/KG	67 U	3,500 U	2,300 U	3,600 U
bis(2-Ethylhexyl)phthalate	UG/KG	649	3,500 U	2,300 U	3,600 U
Butylbenzylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Carbazole	UG/KG	67 U	3,500 U	2,300 U	160 J
Chrysene	UG/KG	264	540 J	460 J	1,300 J
Dibenz(a,h)anthracene	UG/KG	67 U	3,500 U	2,300 U	300 J

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
Dibenzofuran	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Diethylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Dimethylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Di-n-butylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Di-n-octylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Fluoranthene	UG/KG	416	860 J	720 J	2,300 J
Fluorene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Hexachlorobenzene	UG/KG	67 U (966)	3,500 U (966)	2,300 U (966)	3,600 U (966)
Hexachlorobutadiene	UG/KG	67 U (322)	3,500 U (322)	2,300 U (322)	3,600 U (322)
Hexachlorocyclopentadiene	UG/KG	130 U	3,500 U	2,300 U	3,600 U
Hexachloroethane	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	360 J	280 J	1,000 J
Isophorone	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Naphthalene	UG/KG	67 U	3,500 U	2,300 U	3,300 J
Nitrobenzene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
N-Nitrosodimethylamine	UG/KG	67 U	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	3,500 U	2,300 U	3,600 U
N-Nitrosodiphenylamine	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Pentachlorophenol	UG/KG	130 U	17,000 U	11,000 U	7,100 U
Phenanthrene	UG/KG	227	350 J	290 J	1,100 J
Phenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

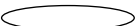
TABLE 3
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO WILDLIFE
BIOACCUMULATION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
Pyrene	UG/KG	755	620 J	500 J	1,800 J
Polychlorinated Biphenyls					
Aroclor 1016	UG/KG	3.3 U (113)	34 U (113)	24 U (113)	NA
Aroclor 1221	UG/KG	3.3 U (113)	34 U (113)	24 U (113)	NA
Aroclor 1232	UG/KG	3.3 U (113)	34 U (113)	24 U (113)	NA
Aroclor 1242	UG/KG	3.3 U (113)	34 U (113)	24 U (113)	NA
Aroclor 1248	UG/KG	3.3 U (113)	34 U (113)	24 U (113)	NA
Aroclor 1254	UG/KG	3.3 U (113)	34 U (113)	24 U (113)	NA
Aroclor 1260	UG/KG	3.3 U (113)	34 U (113)	24 U (113)	NA
Miscellaneous Parameters					
Cyanide	MG/KG	1.91	1.8 UJ	1.3 UJ	2.2 U
Percent Dry	PERCENT	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	80,500	80,500	80,500	80,500

Criteria- NYSDEC Technica Guidance for Screening Contaminated Sediments, Wildlife Bioaccumulation, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1-Dichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,1-Dichloroethene	UG/KG	2 U	2 U	14 U	14 U	2 U
1,2-Dichloroethane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloroethene (total)	UG/KG	NA	NA	28 U	27 U	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloropropane	UG/KG	2 U	2 U	14 U	14 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	2 U	14 U	14 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	2 U	14 U	14 U	2 U
2-Hexanone	UG/KG	10 U	10 U	69 U	68 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	10 U	69 U	68 U	10 U
Acetone	UG/KG	32 J	489	110	68 U	32 J
Benzene	UG/KG	2 U (1,610)	2 U (1,610)	14 U (1,610)	14 U (1,610)	2 U (577)
Bromodichloromethane	UG/KG	2 U	2 U	14 U	14 U	2 U
Bromoform	UG/KG	2 U	2 U	14 U	14 U	2 U
Bromomethane	UG/KG	10 U	10 U	14 U	14 U	10 U
Carbon disulfide	UG/KG	2 U	2 U	14 U	14 U	2 U
Carbon tetrachloride	UG/KG	2 U	2 U	14 U	14 U	2 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U (201)	2 U (201)	14 U (201)	14 U (201)	2 U (72.1)
Chloroethane	UG/KG	10 U	10 U	14 U	14 U	10 U
Chloroform	UG/KG	2 U	2 U	NA	NA	2 U
Chloromethane	UG/KG	10 U	10 U	14 U	14 U	10 U
Dibromochloromethane	UG/KG	2 U	2 U	14 U	14 U	2 U
Ethylbenzene	UG/KG	2 U (1,380)	2 U (1,380)	14 U (1,380)	14 U (1,380)	2 U (494)
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	100	28 J	68 U	10 U
Methylene chloride	UG/KG	2 UJ	40 U	14 U	16 U	2 UJ
Styrene	UG/KG	2 U	2 U	14 U	14 U	2 U
Tetrachloroethene	UG/KG	2 U	2 U	14 U	14 U	2 U
Toluene	UG/KG	2 U (2,818)	2 U (2,818)	14 U (2,818)	14 U (2,818)	2 U (1,009)
Trichloroethene	UG/KG	2 U	2 U	14 U	14 U	2 U
Vinyl acetate	UG/KG	10 U	10 U	NA	NA	10 U
Vinyl chloride	UG/KG	10 U	10 U	28 U	27 U	10 U
Xylene (total)	UG/KG	4 U (5,290)	NA	41 U (5,290)	41 U (5,290)	4 U (1,895)
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U (5,233)	67 U (5,233)	940 U (5,233)	8,800 U (5,233)	67 U (1,875)
1,2-Dichlorobenzene	UG/KG	67 U (690)	67 U (690)	940 U (690)	8,800 U (690)	67 U (247)
1,3-Dichlorobenzene	UG/KG	67 U (690)	67 U (690)	940 U (690)	8,800 U (690)	67 U (247)
1,4-Dichlorobenzene	UG/KG	67 U (690)	67 U (690)	940 U (690)	8,800 U (690)	67 U (247)
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	67 U	940 U	4,500 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	67 U	2,300 U	4,500 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2,4-Dinitrophenol	UG/KG	130 U	130 UJ	4,600 U	8,800 U	130 U
2,4-Dinitrotoluene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2-Chloronaphthalene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2-Chlorophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
2-Methylnaphthalene	UG/KG	67 U (1,955)	67 U (1,955)	940 U (1,955)	4,500 U (1,955)	67 U (700)
2-Methylphenol (o-cresol)	UG/KG	67 U	67 U	940 U	4,500 U	67 U
2-Nitroaniline	UG/KG	67 U	67 U	4,600 U	8,800 U	67 U
2-Nitrophenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
3&4-Methylphenol	UG/KG	130 U	130 U	NA	NA	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	67 U	4,600 U	4,500 U	67 U
3-Nitroaniline	UG/KG	67 U	67 U	4,600 U	8,800 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	130 U	4,600 U	8,800 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	67 U	940 U	4,500 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U
4-Chloroaniline	UG/KG	67 U	67 U	940 U	4,500 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	67 U	940 U	4,500 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	NA	940 U	4,500 U	NA
4-Nitroaniline	UG/KG	67 U	67 U	4,600 U	NA	67 U
4-Nitrophenol	UG/KG	130 U	130 U	4,600 U	8,800 U	130 U
Acenaphthene	UG/KG	67 U (8,050)	67 U (8,050)	940 U (8,050)	4,500 U (8,050)	67 U (2,884)
Acenaphthylene	UG/KG	67 U	67 U	150 J	4,500 U	67 U
Anthracene	UG/KG	67 U (6,153)	67 U (6,153)	110 J (6,153)	4,500 U (6,153)	67 U (2,204)
Benzidine	UG/KG	330 U	330 U	NA	NA	330 U
Benzo(a)anthracene	UG/KG	67 U (690)	804 (690)	460 J (690)	570 J (690)	491 (247)
Benzo(a)pyrene	UG/KG	67 U	1,690	760 J	730 J	671 J
Benzo(b)fluoranthene	UG/KG	67 U	2,310	1,800	1,500 J	913 J
Benzo(g,h,i)perylene	UG/KG	67 U	863	530 J	930 J	290 J
Benzo(k)fluoranthene	UG/KG	67 U	2,100	1,800	300 J	815 J
Benzoic acid	UG/KG	330 U	330 UJ	NA	NA	330 U
Benzyl alcohol	UG/KG	67 U	67 U	NA	NA	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	67 U	940 U	4,500 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	67 U	940 U	4,500 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	624 U (11,471)	1,680 (11,471)	240 J (11,471)	4,500 U (11,471)	1,490 U (4,110)
Butylbenzylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Carbazole	UG/KG	67 U	67 U	66 J	4,500 U	67 U
Chrysene	UG/KG	67 U	1,290	720 J	780 J	713
Dibenz(a,h)anthracene	UG/KG	67 U	243	110 J	230 J	67 UJ

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Diethylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Dimethylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Di-n-butylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Di-n-octylphthalate	UG/KG	67 U	67 U	940 U	4,500 U	67 UJ
Fluoranthene	UG/KG	67 U (58,650)	2,000 (58,650)	1,100 (58,650)	1,300 J (58,650)	1,180 (21,012)
Fluorene	UG/KG	67 U (460)	67 U (460)	940 U (460)	4,500 U (460)	67 U (165)
Hexachlorobenzene	UG/KG	67 U (320,275)	67 U (320,275)	940 U (320,275)	4,500 U (320,275)	67 U (114,742)
Hexachlorobutadiene	UG/KG	67 U (316)	67 U (316)	940 U (316)	4,500 U (316)	67 U (113)
Hexachlorocyclopentadiene	UG/KG	130 U (253)	130 U (253)	940 U (253)	4,500 U (253)	130 U (90.6)
Hexachloroethane	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	787	480 J	760 J	254 J
Isophorone	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Naphthalene	UG/KG	67 U (1,725)	67 U (1,725)	940 U (1,725)	4,500 U (1,725)	67 U (618)
Nitrobenzene	UG/KG	67 U	67 U	940 U	4,500 U	67 U
N-Nitrosodimethylamine	UG/KG	NA	67 U	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	67 U	940 U	4,500 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	67 U	940 U	4,500 U	67 U
Pentachlorophenol	UG/KG	130 U (2,300)	130 U (2,300)	4,600 U (2,300)	8,800 U (2,300)	130 U (824)
Phenanthrene	UG/KG	67 U (6,900)	528 (6,900)	320 J (6,900)	380 J (6,900)	446 (2,472)
Phenol	UG/KG	130 U	130 U	940 U	4,500 U	130 U

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

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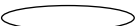
TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-01	SW-01	SW-01	SW-01	SW-02
Sample ID		SW-1	SED-1	SW-01	SED-01	SW-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	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	67 U (55,258)	3,270 (55,258)	820 J (55,258)	980 J (55,258)	1,470 (19,797)
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	41 U (1,110)	3.3 U (1,110)	47 U (1,110)	NA	240 UJ (398)
Aroclor 1221	UG/KG	41 U (1,110)	3.3 U (1,110)	47 U (1,110)	NA	240 UJ (398)
Aroclor 1232	UG/KG	41 U (1,110)	3.3 U (1,110)	47 U (1,110)	NA	240 UJ (398)
Aroclor 1242	UG/KG	41 U (1,110)	3.3 U (1,110)	47 U (1,110)	NA	240 UJ (398)
Aroclor 1248	UG/KG	41 U (1,110)	3.3 U (1,110)	47 U (1,110)	NA	240 UJ (398)
Aroclor 1254	UG/KG	41 U (1,110)	3.3 U (1,110)	47 U (1,110)	NA	240 UJ (398)
Aroclor 1260	UG/KG	41 U (1,110)	37.1 (1,110)	47 U (1,110)	NA	240 UJ (398)
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	1.73	3.5 J-	2.5 U	0.50 U
Percent Dry	PERCENT	40.6	NA	NA	NA	42.0
Total Organic Carbon (TOC)	MG/KG	57,500	57,500	57,500	57,500	20,600

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1-Dichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,1-Dichloroethene	UG/KG	2 U	8 U	7 U	2 U	2 U
1,2-Dichloroethane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloroethene (total)	UG/KG	NA	16 U	14 U	NA	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloropropane	UG/KG	2 U	8 U	7 U	2 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	8 U	7 U	2 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	8 U	7 U	2 U	2 U
2-Hexanone	UG/KG	10 U	40 U	36 U	10 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	40 U	36 U	10 U	10 U
Acetone	UG/KG	164	32 J	36 U	19 J	10 UJ
Benzene	UG/KG	2 U (577)	8 U (577)	7 U (577)	2 U (860)	2 U (860)
Bromodichloromethane	UG/KG	2 U	8 U	7 U	2 U	2 U
Bromoform	UG/KG	2 U	8 U	7 U	2 U	2 U
Bromomethane	UG/KG	10 U	8 U	7 U	10 U	10 U
Carbon disulfide	UG/KG	2 U	8 U	2 J	2 U	2 U
Carbon tetrachloride	UG/KG	2 U	8 U	7 U	2 U	2 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Volatile Organic Compounds						
Chlorobenzene	UG/KG	9 (72.1)	2 J (72.1)	7 U (72.1)	2 U (107)	2 U (107)
Chloroethane	UG/KG	10 U	8 U	7 U	10 U	10 U
Chloroform	UG/KG	2 U	NA	NA	2 U	2 U
Chloromethane	UG/KG	10 U	8 U	7 U	10 U	10 U
Dibromochloromethane	UG/KG	2 U	8 U	7 U	2 U	2 U
Ethylbenzene	UG/KG	2 U (494)	8 U (494)	7 U (494)	2 U (737)	2 U (737)
Methyl ethyl ketone (2-Butanone)	UG/KG	33	40 U	36 U	10 U	10 U
Methylene chloride	UG/KG	46 U	8 U	17 U	2 UJ	2 UJ
Styrene	UG/KG	2 U	8 U	7 U	2 U	2 U
Tetrachloroethene	UG/KG	2 U	8 U	7 U	2 U	2 U
Toluene	UG/KG	2 U (1,009)	8 U (1,009)	7 U (1,009)	2 U (1,504)	2 U (1,504)
Trichloroethene	UG/KG	2 U	8 U	7 U	2 U	2 U
Vinyl acetate	UG/KG	10 U	NA	NA	10 U	10 U
Vinyl chloride	UG/KG	10 U	16 U	14 U	10 U	10 U
Xylene (total)	UG/KG	NA	24 U (1,895)	22 U (1,895)	4 U (2,824)	4 U (2,824)
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U (1,875)	520 U (1,875)	4,600 U (1,875)	67 U (2,794)	67 U (2,794)
1,2-Dichlorobenzene	UG/KG	67 U (247)	520 U (247)	4,600 U (247)	67 U (368)	67 U (368)
1,3-Dichlorobenzene	UG/KG	67 U (247)	520 U (247)	4,600 U (247)	67 U (368)	67 U (368)
1,4-Dichlorobenzene	UG/KG	67 U (247)	520 U (247)	4,600 U (247)	67 U (368)	67 U (368)
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	520 U	2,400 U	67 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	1,300 U	2,400 U	67 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2,4-Dinitrophenol	UG/KG	130 UJ	2,500 U	4,600 U	130 U	130 U
2,4-Dinitrotoluene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2-Chloronaphthalene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2-Chlorophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
2-Methylnaphthalene	UG/KG	67 U (700)	520 U (700)	2,400 U (700)	67 U (1,044)	67 U (1,044)
2-Methylphenol (o-cresol)	UG/KG	67 U	520 U	2,400 U	67 U	67 U
2-Nitroaniline	UG/KG	67 U	2,500 U	4,600 U	67 U	67 U
2-Nitrophenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
3&4-Methylphenol	UG/KG	130 U	NA	NA	130 U	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	2,500 U	2,400 U	67 U	67 U
3-Nitroaniline	UG/KG	67 U	2,500 U	4,600 U	67 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	2,500 U	4,600 U	130 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	520 U	2,400 U	67 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U
4-Chloroaniline	UG/KG	67 U	520 U	2,400 U	67 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	520 U	2,400 U	67 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	230 J	2,400 U	NA	NA
4-Nitroaniline	UG/KG	67 U	2,500 U	NA	67 U	67 U
4-Nitrophenol	UG/KG	130 U	2,500 U	4,600 U	130 U	130 U
Acenaphthene	UG/KG	67 U (2,884)	520 U (2,884)	2,400 U (2,884)	67 U (4,298)	67 U (4,298)
Acenaphthylene	UG/KG	67 U	42 J	2,400 U	67 U	67 U
Anthracene	UG/KG	67 U (2,204)	43 J (2,204)	2,400 U (2,204)	67 U (3,285)	67 U (3,285)
Benzidine	UG/KG	330 U	NA	NA	330 U	330 U
Benzo(a)anthracene	UG/KG	415 (247)	230 J (247)	340 J (247)	405 (368)	238 (368)
Benzo(a)pyrene	UG/KG	758	340 J	430 J	416	286
Benzo(b)fluoranthene	UG/KG	1,080	780	710 J	481	357
Benzo(g,h,i)perylene	UG/KG	349	240 J	480 J	142	119
Benzo(k)fluoranthene	UG/KG	916	790	260 J	432	334
Benzoic acid	UG/KG	330 UJ	NA	NA	330 U	330 U
Benzyl alcohol	UG/KG	67 U	NA	NA	67 U	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	520 U	2,400 U	67 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	520 U	2,400 U	67 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	1,010 (4,110)	200 J (4,110)	2,400 U (4,110)	740 U (6,125)	471 U (6,125)
Butylbenzylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Carbazole	UG/KG	67 U	29 J	2,400 U	67 U	67 U
Chrysene	UG/KG	719	330 J	370 J	435	318
Dibenz(a,h)anthracene	UG/KG	67 U	57 J	130 J	67 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Diethylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Dimethylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Di-n-butylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Di-n-octylphthalate	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Fluoranthene	UG/KG	1,330 (21,012)	550 (21,012)	700 J (21,012)	540 (31,314)	361 (31,314)
Fluorene	UG/KG	67 U (165)	520 U (165)	2,400 U (165)	67 U (246)	67 U (246)
Hexachlorobenzene	UG/KG	67 U (114,742)	520 U (114,742)	2,400 U (114,742)	67 U (170,999)	67 U (170,999)
Hexachlorobutadiene	UG/KG	67 U (113)	520 U (113)	2,400 U (113)	67 U (169)	67 U (169)
Hexachlorocyclopentadiene	UG/KG	130 U (90.6)	520 U (90.6)	2,400 U (90.6)	130 U (135)	130 U (135)
Hexachloroethane	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	311	220 J	400 J	157	118
Isophorone	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Naphthalene	UG/KG	67 U (618)	520 U (618)	2,400 U (618)	67 U (921)	67 U (921)
Nitrobenzene	UG/KG	67 U	520 U	2,400 U	67 U	67 U
N-Nitrosodimethylamine	UG/KG	67 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	520 U	2,400 U	67 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	520 U	2,400 U	67 U	67 U
Pentachlorophenol	UG/KG	130 U (824)	2,500 U (824)	4,600 U (824)	130 U (1,228)	130 U (1,228)
Phenanthrene	UG/KG	419 (2,472)	170 J (2,472)	210 J (2,472)	147 (3,684)	67 U (3,684)
Phenol	UG/KG	130 U	520 U	2,400 U	130 U	130 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

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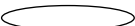
TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-02	SW-02	SW-02	SW-03	SW-03
Sample ID		SED-2	SW-02	SED-02	SW-3	SW-3-DUP
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/04
Parameter	Units					Field Duplicate (1-1)
Semivolatile Organic Compounds						
Pyrene	UG/KG	1,270 (19,797)	400 J (19,797)	570 J (19,797)	576 (29,503)	370 (29,503)
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	3.3 U (398)	27 U (398)	NA	6.1 U (593)	5.4 U (593)
Aroclor 1221	UG/KG	3.3 U (398)	27 U (398)	NA	6.1 U (593)	5.4 U (593)
Aroclor 1232	UG/KG	3.3 U (398)	27 U (398)	NA	6.1 U (593)	5.4 U (593)
Aroclor 1242	UG/KG	3.3 U (398)	27 U (398)	NA	6.1 U (593)	5.4 U (593)
Aroclor 1248	UG/KG	102 (398)	27 U (398)	NA	6.1 U (593)	5.4 U (593)
Aroclor 1254	UG/KG	62 (398)	27 U (398)	NA	6.1 U (593)	5.4 U (593)
Aroclor 1260	UG/KG	30.7 (398)	27 U (398)	NA	6.1 U (593)	5.4 U (593)
Miscellaneous Parameters						
Cyanide	MG/KG	1.88	1.4 UJ	1.3 U	0.50 U	0.50 U
Percent Dry	PERCENT	NA	NA	NA	54.0	60.9
Total Organic Carbon (TOC)	MG/KG	20,600	20,600	20,600	30,700	30,700

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TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1-Dichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,1-Dichloroethene	UG/KG	2 U	10 U	7 U	2 U	2 U
1,2-Dichloroethane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloroethene (total)	UG/KG	NA	20 U	14 U	NA	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	NA	NA	2 U	2 U
1,2-Dichloropropane	UG/KG	2 U	10 U	7 U	2 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	10 U	7 U	2 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	10 U	7 U	2 U	2 U
2-Hexanone	UG/KG	10 U	50 U	36 U	10 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	50 U	36 U	10 U	10 U
Acetone	UG/KG	126	56	66 U	25 J	37
Benzene	UG/KG	2 U (860)	10 U (860)	7 U (860)	2 U (1,506)	2 U (1,506)
Bromodichloromethane	UG/KG	2 U	10 U	7 U	2 U	2 U
Bromoform	UG/KG	2 U	10 U	7 U	2 U	2 U
Bromomethane	UG/KG	10 U	10 U	7 U	10 U	10 U
Carbon disulfide	UG/KG	2 U	10 U	2 J	2 U	2 U
Carbon tetrachloride	UG/KG	2 U	10 U	7 U	2 U	2 U

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U (107)	10 U (107)	7 U (107)	2 U (188)	2 U (188)
Chloroethane	UG/KG	10 U	10 U	7 U	10 U	10 U
Chloroform	UG/KG	2 U	NA	NA	2 U	2 U
Chloromethane	UG/KG	10 U	10 U	7 U	10 U	10 U
Dibromochloromethane	UG/KG	2 U	10 U	7 U	2 U	2 U
Ethylbenzene	UG/KG	2 U (737)	10 U (737)	7 U (737)	2 U (1,291)	2 U (1,291)
Methyl ethyl ketone (2-Butanone)	UG/KG	29	13 J	11 J	10 U	14
Methylene chloride	UG/KG	50 U	10 U	26 U	2 UJ	29 U
Styrene	UG/KG	2 U	10 U	7 U	2 U	2 U
Tetrachloroethene	UG/KG	2 U	10 U	7 U	2 U	2 U
Toluene	UG/KG	2 U (1,504)	8 J (1,504)	4 J (1,504)	2 U (2,636)	2 U (2,636)
Trichloroethene	UG/KG	2 U	10 U	7 U	2 U	2 U
Vinyl acetate	UG/KG	10 U	NA	NA	10 U	10 U
Vinyl chloride	UG/KG	10 U	20 U	14 U	10 U	10 U
Xylene (total)	UG/KG	NA	30 U (2,824)	21 U (2,824)	4 U (4,950)	NA
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U (2,794)	660 U (2,794)	2,300 U (2,794)	67 U (4,896)	67 U (4,896)
1,2-Dichlorobenzene	UG/KG	67 U (368)	660 U (368)	2,300 U (368)	67 U (646)	67 U (646)
1,3-Dichlorobenzene	UG/KG	67 U (368)	660 U (368)	2,300 U (368)	67 U (646)	67 U (646)
1,4-Dichlorobenzene	UG/KG	67 U (368)	660 U (368)	2,300 U (368)	67 U (646)	67 U (646)
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	660 U	1,200 U	67 U	67 U

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	1,600 U	1,200 U	67 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2,4-Dinitrophenol	UG/KG	130 UJ	3,200 U	2,300 U	130 U	130 UJ
2,4-Dinitrotoluene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2-Chloronaphthalene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2-Chlorophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
2-Methylnaphthalene	UG/KG	67 U (1,044)	660 U (1,044)	1,200 U (1,044)	67 U (1,829)	67 U (1,829)
2-Methylphenol (o-cresol)	UG/KG	67 U	660 U	1,200 U	67 U	67 U
2-Nitroaniline	UG/KG	67 U	3,200 U	2,300 U	67 U	67 U
2-Nitrophenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
3&4-Methylphenol	UG/KG	130 U	NA	NA	130 U	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	3,200 U	1,200 U	67 U	67 U
3-Nitroaniline	UG/KG	67 U	3,200 U	2,300 U	67 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	3,200 U	2,300 U	130 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	660 U	1,200 U	67 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U
4-Chloroaniline	UG/KG	67 U	660 U	1,200 U	67 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	660 U	1,200 U	67 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	280 J	460 J	NA	NA
4-Nitroaniline	UG/KG	67 U	3,200 U	NA	67 U	67 U
4-Nitrophenol	UG/KG	130 U	3,200 U	2,300 U	130 U	130 U
Acenaphthene	UG/KG	67 U (4,298)	660 U (4,298)	1,200 U (4,298)	67 U (7,532)	67 U (7,532)
Acenaphthylene	UG/KG	67 U	68 J	1,200 U	67 U	67 U
Anthracene	UG/KG	67 U (3,285)	53 J (3,285)	1,200 U (3,285)	67 U (5,757)	67 U (5,757)
Benzidine	UG/KG	330 U	NA	NA	330 U	330 U
Benzo(a)anthracene	UG/KG	417 (368)	420 J (368)	190 J (368)	205 (646)	67 U (646)
Benzo(a)pyrene	UG/KG	622	620 J	220 J	221 J	97
Benzo(b)fluoranthene	UG/KG	847	1,400	360 J	236 J	67 U
Benzo(g,h,i)perylene	UG/KG	251	340 J	260 J	67 UJ	67 U
Benzo(k)fluoranthene	UG/KG	641	1,400	130 J	289 J	101
Benzoic acid	UG/KG	330 UJ	NA	NA	330 U	330 UJ
Benzyl alcohol	UG/KG	67 U	NA	NA	67 U	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	660 U	1,200 U	67 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	660 U	1,200 U	67 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	1,060 (6,125)	240 J (6,125)	1,200 U (6,125)	1,170 U (10,733)	135 (10,733)
Butylbenzylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Carbazole	UG/KG	67 U	46 J	1,200 U	67 U	67 U
Chrysene	UG/KG	665	580 J	260 J	244	67 U
Dibenz(a,h)anthracene	UG/KG	67 U	88 J	65 J	67 UJ	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Diethylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Dimethylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Di-n-butylphthalate	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Di-n-octylphthalate	UG/KG	67 U	660 U	1,200 U	67 UJ	67 U
Fluoranthene	UG/KG	1,450 (31,314)	840 (31,314)	390 J (31,314)	449 (54,876)	128 (54,876)
Fluorene	UG/KG	67 U (246)	660 U (246)	1,200 U (246)	67 U (430)	67 U (430)
Hexachlorobenzene	UG/KG	67 U (170,999)	660 U (170,999)	1,200 U (170,999)	67 U (299,666)	67 U (299,666)
Hexachlorobutadiene	UG/KG	67 U (169)	660 U (169)	1,200 U (169)	67 U (296)	67 U (296)
Hexachlorocyclopentadiene	UG/KG	130 U (135)	660 U (135)	1,200 U (135)	130 U (237)	130 U (237)
Hexachloroethane	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	241	330 J	200 J	67 UJ	67 U
Isophorone	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Naphthalene	UG/KG	67 U (921)	660 U (921)	1,200 U (921)	67 U (1,614)	67 U (1,614)
Nitrobenzene	UG/KG	67 U	660 U	1,200 U	67 U	67 U
N-Nitrosodimethylamine	UG/KG	67 U	NA	NA	NA	67 U
N-Nitroso-di-n-propylamine	UG/KG	67 U	660 U	1,200 U	67 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	660 U	1,200 U	67 U	67 U
Pentachlorophenol	UG/KG	130 U (1,228)	3,200 U (1,228)	2,300 U (1,228)	130 U (2,152)	130 U (2,152)
Phenanthrene	UG/KG	576 (3,684)	220 J (3,684)	120 J (3,684)	243 (6,456)	67 U (6,456)
Phenol	UG/KG	130 U	660 U	1,200 U	130 U	130 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

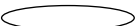
TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-03	SW-03	SW-03	SW-04	SW-04
Sample ID		SED-3	SW-03	SED-03	SW-4	SED-4
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	-	-	-
Date Sampled		05/03/05	05/15/06	05/21/07	05/03/04	05/03/05
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	1,200 (29,503)	600 J (29,503)	310 J (29,503)	488 (51,702)	146 (51,702)
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	3.3 U (593)	34 U (593)	NA	84 U (1,038)	3.3 U (1,038)
Aroclor 1221	UG/KG	3.3 U (593)	34 U (593)	NA	84 U (1,038)	3.3 U (1,038)
Aroclor 1232	UG/KG	3.3 U (593)	34 U (593)	NA	84 U (1,038)	3.3 U (1,038)
Aroclor 1242	UG/KG	3.3 U (593)	34 U (593)	NA	84 U (1,038)	3.3 U (1,038)
Aroclor 1248	UG/KG	3.3 U (593)	34 U (593)	NA	84 U (1,038)	3.3 U (1,038)
Aroclor 1254	UG/KG	3.3 U (593)	34 U (593)	NA	84 U (1,038)	3.3 U (1,038)
Aroclor 1260	UG/KG	3.52 (593)	34 U (593)	NA	84 U (1,038)	3.3 U (1,038)
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	1.8 UJ	1.3 U	0.50 U	0.50 U
Percent Dry	PERCENT	NA	NA	NA	39.1	NA
Total Organic Carbon (TOC)	MG/KG	30,700	30,700	30,700	53,800	53,800

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1,2-Trichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1-Dichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,1-Dichloroethene	UG/KG	14 U	14 U	12 U	2 U	2 U
1,2-Dichloroethane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,2-Dichloroethene (cis)	UG/KG	NA	NA	NA	2 U	2 U
1,2-Dichloroethene (total)	UG/KG	29 U	27 U	25 U	NA	NA
1,2-Dichloroethene (trans)	UG/KG	NA	NA	NA	2 U	2 U
1,2-Dichloropropane	UG/KG	14 U	14 U	12 U	2 U	2 U
1,3-Dichloropropene (cis)	UG/KG	14 U	14 U	12 U	2 U	2 U
1,3-Dichloropropene (trans)	UG/KG	14 U	14 U	12 U	2 U	2 U
2-Hexanone	UG/KG	73 U	68 U	62 U	10 U	10 U
4-Methyl-2-pentanone	UG/KG	73 U	68 U	62 U	10 U	10 U
Acetone	UG/KG	42 J	92 U	62 U	10 UJ	39
Benzene	UG/KG	14 U (1,506)	14 U (2,125)	12 U (1,506)	2 U (1,139)	2 U (1,139)
Bromodichloromethane	UG/KG	14 U	14 U	12 U	2 U	2 U
Bromoform	UG/KG	14 U	14 U	12 U	2 U	2 U
Bromomethane	UG/KG	14 U	14 U	12 U	10 U	10 U
Carbon disulfide	UG/KG	14 U	4 J	12 U	2 U	2 U
Carbon tetrachloride	UG/KG	14 U	14 U	12 U	2 U	2 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Volatile Organic Compounds						
Chlorobenzene	UG/KG	14 U (188)	14 U (266)	12 U (188)	2 U (142)	2 U (142)
Chloroethane	UG/KG	14 U	14 U	12 U	10 U	10 U
Chloroform	UG/KG	NA	NA	NA	2 U	2 U
Chloromethane	UG/KG	14 U	14 U	12 U	10 U	10 U
Dibromochloromethane	UG/KG	14 U	14 U	12 U	2 U	2 U
Ethylbenzene	UG/KG	14 U (1,291)	14 U (1,822)	12 U (1,291)	2 U (977)	2 U (977)
Methyl ethyl ketone (2-Butanone)	UG/KG	73 U	22 J	62 U	10 U	10 U
Methylene chloride	UG/KG	14 U	61	18 U	2 UJ	27 U
Styrene	UG/KG	14 U	14 U	12 U	2 U	2 U
Tetrachloroethene	UG/KG	14 U	14 U	12 U	2 U	2 U
Toluene	UG/KG	14 U (2,636)	14 U (3,719)	12 U (2,636)	2 U (1,994)	2 U (1,994)
Trichloroethene	UG/KG	14 U	14 U	12 U	2 U	2 U
Vinyl acetate	UG/KG	NA	NA	NA	10 U	10 U
Vinyl chloride	UG/KG	29 U	27 U	25 U	10 U	10 U
Xylene (total)	UG/KG	44 U (4,950)	41 U (6,983)	37 U (4,950)	4 U (3,743)	NA
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	940 U (4,896)	6,600 U (6,907)	7,500 U (4,896)	67 U (3,703)	67 U (3,703)
1,2-Dichlorobenzene	UG/KG	940 U (646)	6,600 U (911)	7,500 U (646)	67 U (488)	67 U (488)
1,3-Dichlorobenzene	UG/KG	940 U (646)	6,600 U (911)	7,500 U (646)	67 U (488)	67 U (488)
1,4-Dichlorobenzene	UG/KG	940 U (646)	6,600 U (911)	7,500 U (646)	67 U (488)	67 U (488)
2,2'-oxybis(1-Chloropropane)	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	2,300 U	3,400 U	3,900 U	67 U	67 U
2,4,6-Trichlorophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2,4-Dichlorophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2,4-Dimethylphenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2,4-Dinitrophenol	UG/KG	4,600 U	6,600 U	7,500 U	130 U	130 UJ
2,4-Dinitrotoluene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
2,6-Dinitrotoluene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
2-Chloronaphthalene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
2-Chlorophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
2-Methylnaphthalene	UG/KG	940 U (1,829)	180 J (2,581)	3,900 U (1,829)	67 U (1,383)	67 U (1,383)
2-Methylphenol (o-cresol)	UG/KG	64 J	3,400 U	3,900 U	67 U	67 U
2-Nitroaniline	UG/KG	4,600 U	6,600 U	7,500 U	67 U	67 U
2-Nitrophenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
3&4-Methylphenol	UG/KG	NA	NA	NA	130 U	130 U
3,3'-Dichlorobenzidine	UG/KG	4,600 U	3,400 U	3,900 U	67 U	67 U
3-Nitroaniline	UG/KG	4,600 U	6,600 U	7,500 U	67 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	4,600 U	6,600 U	7,500 U	130 U	130 U
4-Bromophenyl-phenylether	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
4-Chloro-3-methylphenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U
4-Chloroaniline	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
4-Chlorophenyl-phenylether	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	220 J	3,400 U	3,900 U	NA	NA
4-Nitroaniline	UG/KG	4,600 U	NA	NA	67 U	67 U
4-Nitrophenol	UG/KG	4,600 U	6,600 U	7,500 U	130 U	130 U
Acenaphthene	UG/KG	940 U (7,532)	3,400 U (10,626)	3,900 U (7,532)	67 U (5,696)	67 U (5,696)
Acenaphthylene	UG/KG	70 J	140 J	3,900 U	67 U	67 U
Anthracene	UG/KG	80 J (5,757)	3,400 U (8,121)	3,900 U (5,757)	67 U (4,354)	67 U (4,354)
Benzidine	UG/KG	NA	NA	NA	330 U	330 U
Benzo(a)anthracene	UG/KG	380 J (646)	560 J (911)	360 J (646)	67 U (488)	67 U (488)
Benzo(a)pyrene	UG/KG	480 J	540 J	460 J	67 U	67 U
Benzo(b)fluoranthene	UG/KG	790 J	980 J	720 J	67 U	67 U
Benzo(g,h,i)perylene	UG/KG	240 J	540 J	610 J	67 U	67 U
Benzo(k)fluoranthene	UG/KG	220 J	3,400 U	270 J	67 U	67 U
Benzoic acid	UG/KG	NA	NA	NA	330 U	330 UJ
Benzyl alcohol	UG/KG	NA	NA	NA	67 U	67 U
bis(2-Chloroethoxy)methane	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
bis(2-Chloroethyl)ether	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	940 U (10,733)	3,400 U (15,142)	4,600 U (10,733)	336 U (8,117)	135 (8,117)
Butylbenzylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Carbazole	UG/KG	52 J	3,400 U	3,900 U	67 U	67 U
Chrysene	UG/KG	420 J	490 J	510 J	67 U	67 U
Dibenz(a,h)anthracene	UG/KG	63 J	140 J	3,900 U	67 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Diethylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Dimethylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Di-n-butylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Di-n-octylphthalate	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Fluoranthene	UG/KG	800 J (54,876)	930 J (77,418)	880 J (54,876)	67 U (41,503)	67 U (41,503)
Fluorene	UG/KG	940 U (430)	3,400 U (607)	3,900 U (430)	67 U (326)	67 U (326)
Hexachlorobenzene	UG/KG	940 U (299,666)	3,400 U (422,763)	3,900 U (299,666)	67 U (226,638)	67 U (226,638)
Hexachlorobutadiene	UG/KG	940 U (296)	3,400 U (417)	3,900 U (296)	67 U (224)	67 U (224)
Hexachlorocyclopentadiene	UG/KG	940 U (237)	3,400 U (334)	3,900 U (237)	130 U (179)	130 U (179)
Hexachloroethane	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	220 J	480 J	460 J	67 U	67 U
Isophorone	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Naphthalene	UG/KG	940 U (1,614)	3,500 (2,277)	3,900 U (1,614)	67 U (1,221)	67 U (1,221)
Nitrobenzene	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
N-Nitrosodimethylamine	UG/KG	NA	NA	NA	NA	67 U
N-Nitroso-di-n-propylamine	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
N-Nitrosodiphenylamine	UG/KG	940 U	3,400 U	3,900 U	67 U	67 U
Pentachlorophenol	UG/KG	4,600 U (2,152)	6,600 U (3,036)	7,500 U (2,152)	130 U (1,628)	130 U (1,628)
Phenanthrene	UG/KG	330 J (6,456)	540 J (9,108)	410 J (6,456)	67 U (4,883)	67 U (4,883)
Phenol	UG/KG	940 U	3,400 U	3,900 U	130 U	130 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

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NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-04	SW-04	SW-04	SW-05	SW-05
Sample ID		SW-04	DUP-052107	SED-04	SW-5	SED-5
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		0.0-0.5	-	-	-	-
Date Sampled		05/15/06	05/21/07	05/21/07	05/03/04	05/03/05
Parameter	Units		Field Duplicate (0-1)			
Semivolatile Organic Compounds						
Pyrene	UG/KG	540 J (51,702)	730 J (72,940)	650 J (51,702)	67 U (39,102)	67 U (39,102)
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	47 U (1,038)	NA	NA	4.8 U (785)	3.3 U (785)
Aroclor 1221	UG/KG	47 U (1,038)	NA	NA	4.8 U (785)	3.3 U (785)
Aroclor 1232	UG/KG	47 U (1,038)	NA	NA	4.8 U (785)	3.3 U (785)
Aroclor 1242	UG/KG	47 U (1,038)	NA	NA	4.8 U (785)	3.3 U (785)
Aroclor 1248	UG/KG	47 U (1,038)	NA	NA	4.8 U (785)	3.3 U (785)
Aroclor 1254	UG/KG	47 U (1,038)	NA	NA	4.8 U (785)	3.3 U (785)
Aroclor 1260	UG/KG	47 U (1,038)	NA	NA	4.8 U (785)	3.3 U (785)
Miscellaneous Parameters						
Cyanide	MG/KG	2.6 UJ	2.0 U	1.8 U	0.50 U	0.50 U
Percent Dry	PERCENT	NA	NA	NA	68.6	NA
Total Organic Carbon (TOC)	MG/KG	53,800	75,900	53,800	40,689	40,689

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(NV) - No Calculable Value, TOC Not Detected

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NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1,2-Trichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1-Dichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,1-Dichloroethene	UG/KG	2 U	2 U	2 U	7 U	9 U
1,2-Dichloroethane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,2-Dichloroethene (cis)	UG/KG	2 U	2 U	2 U	NA	NA
1,2-Dichloroethene (total)	UG/KG	NA	NA	NA	13 U	18 U
1,2-Dichloroethene (trans)	UG/KG	2 U	2 U	2 U	NA	NA
1,2-Dichloropropane	UG/KG	2 U	2 U	2 U	7 U	9 U
1,3-Dichloropropene (cis)	UG/KG	2 U	2 U	2 U	7 U	9 U
1,3-Dichloropropene (trans)	UG/KG	2 U	2 U	2 U	7 U	9 U
2-Hexanone	UG/KG	10 U	10 U	10 U	33 U	45 U
4-Methyl-2-pentanone	UG/KG	10 U	10 U	10 U	33 U	45 U
Acetone	UG/KG	20 J	22	48	33 U	45 U
Benzene	UG/KG	2 U (904)	2 U (904)	2 U (904)	7 U (904)	9 U (904)
Bromodichloromethane	UG/KG	2 U	2 U	2 U	7 U	9 U
Bromoform	UG/KG	2 U	2 U	2 U	7 U	9 U
Bromomethane	UG/KG	10 U	10 U	10 U	7 U	9 U
Carbon disulfide	UG/KG	2 U	2 U	2 U	7 U	3 J
Carbon tetrachloride	UG/KG	2 U	2 U	2 U	7 U	9 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U (113)	2 U (113)	2 U (113)	7 U (113)	9 U (113)
Chloroethane	UG/KG	10 U	10 U	10 U	7 U	9 U
Chloroform	UG/KG	2 U	2 U	2 U	NA	NA
Chloromethane	UG/KG	10 U	10 U	10 U	7 U	9 U
Dibromochloromethane	UG/KG	2 U	2 U	2 U	7 U	9 U
Ethylbenzene	UG/KG	2 U (775)	2 U (775)	2 U (775)	7 U (775)	9 U (775)
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	10 U	10 U	33 U	45 U
Methylene chloride	UG/KG	2 UJ	24 U	35 U	7 U	24 U
Styrene	UG/KG	2 U	2 U	2 U	7 U	9 U
Tetrachloroethene	UG/KG	2 U	2 U	2 U	7 U	9 U
Toluene	UG/KG	2 U (1,583)	2 U (1,583)	2 U (1,583)	7 U (1,583)	9 U (1,583)
Trichloroethene	UG/KG	2 U	2 U	2 U	7 U	9 U
Vinyl acetate	UG/KG	10 U	10 U	10 U	NA	NA
Vinyl chloride	UG/KG	10 U	10 U	10 U	13 U	18 U
Xylene (total)	UG/KG	4 U (2,972)	NA	NA	20 U (2,972)	27 U (2,972)
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U (2,939)	67 U (2,939)	67 U (2,939)	430 U (2,939)	580 U (2,939)
1,2-Dichlorobenzene	UG/KG	67 U (388)	67 U (388)	67 U (388)	430 U (388)	580 U (388)
1,3-Dichlorobenzene	UG/KG	67 U (388)	67 U (388)	67 U (388)	430 U (388)	580 U (388)
1,4-Dichlorobenzene	UG/KG	67 U (388)	67 U (388)	67 U (388)	430 U (388)	580 U (388)
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	67 U	67 U	430 U	300 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	67 U	67 U	1,000 U	300 U
2,4,6-Trichlorophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2,4-Dichlorophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2,4-Dimethylphenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2,4-Dinitrophenol	UG/KG	130 U	130 UJ	130 UJ	2,100 U	580 U
2,4-Dinitrotoluene	UG/KG	67 U	67 U	67 U	430 U	300 U
2,6-Dinitrotoluene	UG/KG	67 U	67 U	67 U	430 U	300 U
2-Chloronaphthalene	UG/KG	67 U	67 U	67 U	430 U	300 U
2-Chlorophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
2-Methylnaphthalene	UG/KG	67 U (1,098)	67 U (1,098)	67 U (1,098)	430 U (1,098)	60 J (1,098)
2-Methylphenol (o-cresol)	UG/KG	67 U	67 U	67 U	430 U	300 U
2-Nitroaniline	UG/KG	67 U	67 U	67 U	2,100 U	580 U
2-Nitrophenol	UG/KG	130 U	130 U	130 U	430 U	300 U
3&4-Methylphenol	UG/KG	130 U	130 U	130 U	NA	NA
3,3'-Dichlorobenzidine	UG/KG	67 U	67 U	67 U	2,100 U	300 U
3-Nitroaniline	UG/KG	67 U	67 U	67 U	2,100 U	580 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	130 U	130 U	2,100 U	580 U
4-Bromophenyl-phenylether	UG/KG	67 U	67 U	67 U	430 U	300 U
4-Chloro-3-methylphenol	UG/KG	130 U	130 U	130 U	430 U	300 U
4-Chloroaniline	UG/KG	67 U	67 U	67 U	430 U	300 U
4-Chlorophenyl-phenylether	UG/KG	67 U	67 U	67 U	430 U	300 U

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	NA	NA	430 U	300 U
4-Nitroaniline	UG/KG	67 U	67 U	67 U	2,100 U	NA
4-Nitrophenol	UG/KG	130 U	130 U	130 U	2,100 U	580 U
Acenaphthene	UG/KG	67 U (4,522)	67 U (4,522)	67 U (4,522)	430 U (4,522)	14 J (4,522)
Acenaphthylene	UG/KG	67 U	67 U	67 U	430 U	36 J
Anthracene	UG/KG	67 U (3,456)	67 U (3,456)	67 U (3,456)	22 J (3,456)	52 J (3,456)
Benzidine	UG/KG	330 U	330 U	330 U	NA	NA
Benzo(a)anthracene	UG/KG	67 U (388)	67 U (388)	67 U (388)	97 J (388)	210 J (388)
Benzo(a)pyrene	UG/KG	67 U	67 U	67 U	90 J	220 J
Benzo(b)fluoranthene	UG/KG	67 U	67 U	67 U	190 J	350
Benzo(g,h,i)perylene	UG/KG	67 U	67 U	67 U	38 J	220 J
Benzo(k)fluoranthene	UG/KG	67 U	67 U	67 U	190 J	120 J
Benzoic acid	UG/KG	330 U	330 UJ	330 UJ	NA	NA
Benzyl alcohol	UG/KG	67 U	67 U	67 U	NA	NA
bis(2-Chloroethoxy)methane	UG/KG	67 U	67 U	67 U	430 U	300 U
bis(2-Chloroethyl)ether	UG/KG	67 U	67 U	67 U	430 U	300 U
bis(2-Ethylhexyl)phthalate	UG/KG	1,140 U (6,444)	115 (6,444)	136 (6,444)	430 U (6,444)	470 U (6,444)
Butylbenzylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Carbazole	UG/KG	67 U	67 U	67 U	430 U	40 J
Chrysene	UG/KG	67 U	67 U	67 U	97 J	280 J
Dibenz(a,h)anthracene	UG/KG	67 U	67 U	67 U	430 U	50 J

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	67 U	67 U	430 U	21 J
Diethylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Dimethylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Di-n-butylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Di-n-octylphthalate	UG/KG	67 U	67 U	67 U	430 U	300 U
Fluoranthene	UG/KG	67 U (32,946)	135 (32,946)	67 U (32,946)	230 J (32,946)	510 (32,946)
Fluorene	UG/KG	67 U (258)	67 U (258)	67 U (258)	23 J (258)	31 J (258)
Hexachlorobenzene	UG/KG	67 U (179,911)	67 U (179,911)	67 U (179,911)	430 U (179,911)	300 U (179,911)
Hexachlorobutadiene	UG/KG	67 U (178)	67 U (178)	67 U (178)	430 U (178)	300 U (178)
Hexachlorocyclopentadiene	UG/KG	130 U (142)	130 U (142)	130 U (142)	430 U (142)	300 U (142)
Hexachloroethane	UG/KG	67 U	67 U	67 U	430 U	300 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	67 U	67 U	42 J	180 J
Isophorone	UG/KG	67 U	67 U	67 U	430 U	300 U
Naphthalene	UG/KG	67 U (969)	67 U (969)	67 U (969)	430 U (969)	480 (969)
Nitrobenzene	UG/KG	67 U	67 U	67 U	430 U	300 U
N-Nitrosodimethylamine	UG/KG	NA	67 U	67 U	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	67 U	67 U	430 U	300 U
N-Nitrosodiphenylamine	UG/KG	67 U	67 U	67 U	430 U	300 U
Pentachlorophenol	UG/KG	130 U (1,292)	130 U (1,292)	130 U (1,292)	2,100 U (1,292)	580 U (1,292)
Phenanthrene	UG/KG	67 U (3,876)	112 (3,876)	67 U (3,876)	160 J (3,876)	290 J (3,876)
Phenol	UG/KG	130 U	130 U	130 U	430 U	300 U

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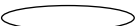
TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-06	SW-06	SW-06	SW-06	SW-06
Sample ID		SW-6	SED-6	SED-9	SW-06	SED-06
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	05/21/07
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
Pyrene	UG/KG	67 U (31,040)	67 U (31,040)	67 U (31,040)	130 J (31,040)	370 (31,040)
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	5.4 U (623)	3.3 U (623)	3.3 U (623)	22 U (623)	NA
Aroclor 1221	UG/KG	5.4 U (623)	3.3 U (623)	3.3 U (623)	22 U (623)	NA
Aroclor 1232	UG/KG	5.4 U (623)	3.3 U (623)	3.3 U (623)	22 U (623)	NA
Aroclor 1242	UG/KG	5.4 U (623)	3.3 U (623)	3.3 U (623)	22 U (623)	NA
Aroclor 1248	UG/KG	5.4 U (623)	3.3 U (623)	3.3 U (623)	22 U (623)	NA
Aroclor 1254	UG/KG	5.4 U (623)	3.3 U (623)	3.3 U (623)	22 U (623)	NA
Aroclor 1260	UG/KG	5.4 U (623)	3.3 U (623)	3.3 U (623)	22 U (623)	NA
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	0.50 U	0.50 U	1.1 J-	1.6 U
Percent Dry	PERCENT	61.1	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	32,300	32,300	32,300	32,300	32,300

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1,2-Trichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1-Dichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,1-Dichloroethene	UG/KG	2 U	2 U	9 U	8 U	2 U
1,2-Dichloroethane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,2-Dichloroethene (cis)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloroethene (total)	UG/KG	NA	NA	18 U	16 U	NA
1,2-Dichloroethene (trans)	UG/KG	2 U	2 U	NA	NA	2 U
1,2-Dichloropropane	UG/KG	2 U	2 U	9 U	8 U	2 U
1,3-Dichloropropene (cis)	UG/KG	2 U	2 U	9 U	8 U	2 U
1,3-Dichloropropene (trans)	UG/KG	2 U	2 U	9 U	8 U	2 U
2-Hexanone	UG/KG	10 U	10 U	45 U	40 U	10 U
4-Methyl-2-pentanone	UG/KG	10 U	10 U	45 U	40 U	10 U
Acetone	UG/KG	10 UJ	105	40 J	40 U	10 UJ
Benzene	UG/KG	2 U (264)	2 U (264)	9 U (264)	8 U (264)	2 U (2,254)
Bromodichloromethane	UG/KG	2 U	2 U	9 U	8 U	2 U
Bromoform	UG/KG	2 U	2 U	9 U	8 U	2 U
Bromomethane	UG/KG	10 U	10 U	9 U	8 U	10 U
Carbon disulfide	UG/KG	2 U	2 U	9 U	3 J	2 U
Carbon tetrachloride	UG/KG	2 U	2 U	9 U	8 U	2 U

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 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Volatile Organic Compounds						
Chlorobenzene	UG/KG	2 U (33.0)	2 U (33.0)	9 U (33.0)	8 U (33.0)	2 U (282)
Chloroethane	UG/KG	10 U	10 U	9 U	8 U	10 U
Chloroform	UG/KG	2 U	2 U	NA	NA	2 U
Chloromethane	UG/KG	10 U	10 U	9 U	8 U	10 U
Dibromochloromethane	UG/KG	2 U	2 U	9 U	8 U	2 U
Ethylbenzene	UG/KG	2 U (226)	2 U (226)	9 U (226)	8 U (226)	2 U (1,932)
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	22	45 U	40 U	10 U
Methylene chloride	UG/KG	2 UJ	32 U	9 U	17 U	2 UJ
Styrene	UG/KG	2 U	2 U	9 U	8 U	2 U
Tetrachloroethene	UG/KG	2 U	2 U	9 U	8 U	2 U
Toluene	UG/KG	2 U (462)	2 U (462)	9 U (462)	8 U (462)	2 U (3,945)
Trichloroethene	UG/KG	2 U	2 U	9 U	8 U	2 U
Vinyl acetate	UG/KG	10 U	10 U	NA	NA	10 U
Vinyl chloride	UG/KG	10 U	10 U	18 U	16 U	10 U
Xylene (total)	UG/KG	4 U (867)	NA	27 U (867)	24 U (867)	4 U (7,406)
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	UG/KG	67 U (857)	67 U (857)	590 U (857)	490 U (857)	67 U (7,326)
1,2-Dichlorobenzene	UG/KG	67 U (113)	67 U (113)	590 U (113)	490 U (113)	67 U (966)
1,3-Dichlorobenzene	UG/KG	67 U (113)	67 U (113)	590 U (113)	490 U (113)	67 U (966)
1,4-Dichlorobenzene	UG/KG	67 U (113)	67 U (113)	590 U (113)	490 U (113)	67 U (966)
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	67 U	590 U	250 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

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TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
2,4,5-Trichlorophenol	UG/KG	67 U	67 U	1,400 U	250 U	67 U
2,4,6-Trichlorophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2,4-Dichlorophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2,4-Dimethylphenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2,4-Dinitrophenol	UG/KG	130 U	130 UJ	2,900 U	490 U	130 U
2,4-Dinitrotoluene	UG/KG	67 U	67 U	590 U	250 U	67 U
2,6-Dinitrotoluene	UG/KG	67 U	67 U	590 U	250 U	67 U
2-Chloronaphthalene	UG/KG	67 U	67 U	590 U	250 U	67 U
2-Chlorophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
2-Methylnaphthalene	UG/KG	67 U (320)	67 U (320)	590 U (320)	150 J (320)	67 U (2,737)
2-Methylphenol (o-cresol)	UG/KG	67 U	67 U	590 U	18 J	67 U
2-Nitroaniline	UG/KG	67 U	67 U	2,900 U	490 U	67 U
2-Nitrophenol	UG/KG	130 U	130 U	590 U	250 U	130 U
3&4-Methylphenol	UG/KG	130 U	130 U	NA	NA	130 U
3,3'-Dichlorobenzidine	UG/KG	67 U	67 U	2,900 U	250 U	67 UJ
3-Nitroaniline	UG/KG	67 U	67 U	2,900 U	490 U	67 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	130 U	2,900 U	490 U	130 U
4-Bromophenyl-phenylether	UG/KG	67 U	67 U	590 U	250 U	67 U
4-Chloro-3-methylphenol	UG/KG	130 U	130 U	590 U	250 U	130 U
4-Chloroaniline	UG/KG	67 U	67 U	590 U	250 U	67 U
4-Chlorophenyl-phenylether	UG/KG	67 U	67 U	590 U	250 U	67 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Methylphenol (p-cresol)	UG/KG	NA	NA	590 U	29 J	NA
4-Nitroaniline	UG/KG	67 U	67 U	2,900 U	NA	67 U
4-Nitrophenol	UG/KG	130 U	130 U	2,900 U	490 U	130 U
Acenaphthene	UG/KG	67 U (1,319)	67 U (1,319)	590 U (1,319)	250 U (1,319)	67 U (11,270)
Acenaphthylene	UG/KG	67 U	67 U	86 J	47 J	67 U
Anthracene	UG/KG	67 U (1,008)	67 U (1,008)	49 J (1,008)	20 J (1,008)	67 U (8,614)
Benzidine	UG/KG	330 U	330 U	NA	NA	330 U
Benzo(a)anthracene	UG/KG	67 U (113)	67 U (113)	300 J (113)	73 J (113)	397 J (966)
Benzo(a)pyrene	UG/KG	67 U	67 U	290 J	56 J	399 J
Benzo(b)fluoranthene	UG/KG	67 U	67 U	590	110 J	429 J
Benzo(g,h,i)perylene	UG/KG	67 U	67 U	97 J	50 J	174 J
Benzo(k)fluoranthene	UG/KG	67 U	67 U	600	250 U	427 J
Benzoic acid	UG/KG	330 U	330 UJ	NA	NA	330 U
Benzyl alcohol	UG/KG	67 U	67 U	NA	NA	67 U
bis(2-Chloroethoxy)methane	UG/KG	67 U	67 U	590 U	250 U	67 U
bis(2-Chloroethyl)ether	UG/KG	67 U	67 U	590 U	250 U	67 U
bis(2-Ethylhexyl)phthalate	UG/KG	738 U (1,879)	159 (1,879)	590 U (1,879)	2,800 U (1,879)	873 U (16,060)
Butylbenzylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 UJ
Carbazole	UG/KG	67 U	67 U	590 U	10 J	67 U
Chrysene	UG/KG	67 U	67 U	310 J	66 J	419 J
Dibenz(a,h)anthracene	UG/KG	67 U	67 U	36 J	13 J	67 UJ

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenzofuran	UG/KG	67 U	67 U	590 U	25 J	67 U
Diethylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 U
Dimethylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 U
Di-n-butylphthalate	UG/KG	67 U	67 U	590 U	250 U	67 U
Di-n-octylphthalate	UG/KG	67 U	67 U	590 U	18 J	67 UJ
Fluoranthene	UG/KG	67 U (9,608)	67 U (9,608)	350 J (9,608)	120 J (9,608)	601 (82,110)
Fluorene	UG/KG	67 U (75.4)	67 U (75.4)	590 U (75.4)	250 U (75.4)	67 U (644)
Hexachlorobenzene	UG/KG	67 U (52,469)	67 U (52,469)	590 U (52,469)	250 U (52,469)	67 U (448,385)
Hexachlorobutadiene	UG/KG	67 U (51.8)	67 U (51.8)	590 U (51.8)	250 U (51.8)	67 U (443)
Hexachlorocyclopentadiene	UG/KG	130 U (41.4)	130 U (41.4)	590 U (41.4)	250 U (41.4)	130 U (354)
Hexachloroethane	UG/KG	67 U	67 U	590 U	250 U	67 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	67 U	99 J	45 J	134 J
Isophorone	UG/KG	67 U	67 U	590 U	250 U	67 U
Naphthalene	UG/KG	67 U (283)	67 U (283)	590 U (283)	1,500 (283)	67 U (2,415)
Nitrobenzene	UG/KG	67 U	67 U	590 U	250 U	67 U
N-Nitrosodimethylamine	UG/KG	NA	67 U	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	67 U	590 U	250 U	67 U
N-Nitrosodiphenylamine	UG/KG	67 U	67 U	590 U	250 U	67 U
Pentachlorophenol	UG/KG	130 U (377)	130 U (377)	2,900 U (377)	490 U (377)	130 U (3,220)
Phenanthrene	UG/KG	67 U (1,130)	67 U (1,130)	43 J (1,130)	50 J (1,130)	326 (9,660)
Phenol	UG/KG	130 U	130 U	590 U	250 U	130 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-07	SW-07	SW-07	SW-07	SW-08
Sample ID		SW-7	SED-7	SW-07	SED-07	SW-8
Matrix		Sediment	Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	-	0.0-0.5	-	-
Date Sampled		05/03/04	05/03/05	05/15/06	05/21/07	05/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Pyrene	UG/KG	67 U (9,053)	67 U (9,053)	360 J (9,053)	110 J (9,053)	1,430 J (77,361)
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	5.1 U (182)	3.3 U (182)	29 U (182)	NA	600 U (1,554)
Aroclor 1221	UG/KG	5.1 U (182)	3.3 U (182)	29 U (182)	NA	600 U (1,554)
Aroclor 1232	UG/KG	5.1 U (182)	3.3 U (182)	29 U (182)	NA	600 U (1,554)
Aroclor 1242	UG/KG	5.1 U (182)	3.3 U (182)	29 U (182)	NA	600 U (1,554)
Aroclor 1248	UG/KG	5.1 U (182)	118 (182)	34 (182)	NA	600 U (1,554)
Aroclor 1254	UG/KG	5.1 U (182)	3.3 U (182)	29 U (182)	NA	600 U (1,554)
Aroclor 1260	UG/KG	5.1 U (182)	3.3 U (182)	29 U (182)	NA	600 U (1,554)
Miscellaneous Parameters						
Cyanide	MG/KG	0.50 U	2.86	1.5 UJ	1.5 U	1.14
Percent Dry	PERCENT	64.1	NA	NA	NA	59.0
Total Organic Carbon (TOC)	MG/KG	9,420	9,420	9,420	9,420	80,500

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

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TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1,2,2-Tetrachloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1,2-Trichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1-Dichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,1-Dichloroethene	UG/KG	2 U	10 U	7 U	8 U
1,2-Dichloroethane	UG/KG	2 U	10 U	7 U	8 U
1,2-Dichloroethene (cis)	UG/KG	2 U	NA	NA	NA
1,2-Dichloroethene (total)	UG/KG	NA	21 U	14 U	17 U
1,2-Dichloroethene (trans)	UG/KG	2 U	NA	NA	NA
1,2-Dichloropropane	UG/KG	2 U	10 U	7 U	8 U
1,3-Dichloropropene (cis)	UG/KG	2 U	10 U	7 U	8 U
1,3-Dichloropropene (trans)	UG/KG	2 U	10 U	7 U	8 U
2-Hexanone	UG/KG	10 U	52 U	36 U	42 U
4-Methyl-2-pentanone	UG/KG	10 U	52 U	36 U	42 U
Acetone	UG/KG	75	22 J	16 J	42 U
Benzene	UG/KG	2 U (2,254)	10 U (2,254)	7 U (2,254)	8 U (2,254)
Bromodichloromethane	UG/KG	2 U	10 U	7 U	8 U
Bromoform	UG/KG	2 U	10 U	7 U	8 U
Bromomethane	UG/KG	10 U	10 U	7 U	8 U
Carbon disulfide	UG/KG	2 U	10 U	7 U	8 U
Carbon tetrachloride	UG/KG	2 U	10 U	7 U	8 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Volatile Organic Compounds					
Chlorobenzene	UG/KG	2 U (282)	10 U (282)	7 U (282)	8 U (282)
Chloroethane	UG/KG	10 U	10 U	7 U	8 U
Chloroform	UG/KG	2 U	NA	NA	NA
Chloromethane	UG/KG	10 U	10 U	7 U	8 U
Dibromochloromethane	UG/KG	2 U	10 U	7 U	8 U
Ethylbenzene	UG/KG	2 U (1,932)	10 U (1,932)	7 U (1,932)	8 U (1,932)
Methyl ethyl ketone (2-Butanone)	UG/KG	10 U	52 U	11 J	42 U
Methylene chloride	UG/KG	55 U	10 U	7 U	12 U
Styrene	UG/KG	2 U	10 U	7 U	8 U
Tetrachloroethene	UG/KG	2 U	10 U	7 U	8 U
Toluene	UG/KG	2 U (3,945)	10 U (3,945)	7 U (3,945)	8 U (3,945)
Trichloroethene	UG/KG	2 U	10 U	7 U	8 U
Vinyl acetate	UG/KG	10 U	NA	NA	NA
Vinyl chloride	UG/KG	10 U	21 U	14 U	17 U
Xylene (total)	UG/KG	NA	31 U (7,406)	21 U (7,406)	25 U (7,406)
Semivolatile Organic Compounds					
1,2,4-Trichlorobenzene	UG/KG	67 U (7,326)	3,500 U (7,326)	2,300 U (7,326)	7,100 U (7,326)
1,2-Dichlorobenzene	UG/KG	67 U (966)	3,500 U (966)	2,300 U (966)	7,100 U (966)
1,3-Dichlorobenzene	UG/KG	67 U (966)	3,500 U (966)	2,300 U (966)	7,100 U (966)
1,4-Dichlorobenzene	UG/KG	67 U (966)	3,500 U (966)	2,300 U (966)	7,100 U (966)
2,2'-oxybis(1-Chloropropane)	UG/KG	67 U	3,500 U	2,300 U	3,600 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
2,4,5-Trichlorophenol	UG/KG	67 U	8,400 U	5,700 U	3,600 U
2,4,6-Trichlorophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2,4-Dichlorophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2,4-Dimethylphenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2,4-Dinitrophenol	UG/KG	130 UJ	17,000 U	11,000 U	7,100 U
2,4-Dinitrotoluene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2,6-Dinitrotoluene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2-Chloronaphthalene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2-Chlorophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
2-Methylnaphthalene	UG/KG	67 U (2,737)	3,500 U (2,737)	2,300 U (2,737)	330 J (2,737)
2-Methylphenol (o-cresol)	UG/KG	67 U	3,500 U	2,300 U	3,600 U
2-Nitroaniline	UG/KG	67 U	17,000 U	11,000 U	7,100 U
2-Nitrophenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
3&4-Methylphenol	UG/KG	130 U	NA	NA	NA
3,3'-Dichlorobenzidine	UG/KG	67 U	17,000 U	11,000 U	3,600 U
3-Nitroaniline	UG/KG	67 U	17,000 U	11,000 U	7,100 U
4,6-Dinitro-2-methylphenol	UG/KG	130 U	17,000 U	11,000 U	7,100 U
4-Bromophenyl-phenylether	UG/KG	67 U	3,500 U	2,300 U	3,600 U
4-Chloro-3-methylphenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U
4-Chloroaniline	UG/KG	67 U	3,500 U	2,300 U	3,600 U
4-Chlorophenyl-phenylether	UG/KG	67 U	3,500 U	2,300 U	3,600 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
4-Methylphenol (p-cresol)	UG/KG	NA	250 J	2,300 U	3,600 U
4-Nitroaniline	UG/KG	67 U	17,000 U	11,000 U	NA
4-Nitrophenol	UG/KG	130 U	17,000 U	11,000 U	7,100 U
Acenaphthene	UG/KG	67 U (11,270)	3,500 U (11,270)	2,300 U (11,270)	3,600 U (11,270)
Acenaphthylene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Anthracene	UG/KG	67 U (8,614)	3,500 U (8,614)	2,300 U (8,614)	250 J (8,614)
Benidine	UG/KG	330 U	NA	NA	NA
Benzo(a)anthracene	UG/KG	225 (966)	460 J (966)	360 J (966)	910 J (966)
Benzo(a)pyrene	UG/KG	284	540 J	500 J	1,100 J
Benzo(b)fluoranthene	UG/KG	346	1,100 J	1,200 J	1,700 J
Benzo(g,h,i)perylene	UG/KG	67 U	430 J	320 J	1,400 J
Benzo(k)fluoranthene	UG/KG	329	260 J	1,200 J	530 J
Benzoic acid	UG/KG	330 UJ	NA	NA	NA
Benzyl alcohol	UG/KG	67 U	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/KG	67 U	3,500 U	2,300 U	3,600 U
bis(2-Chloroethyl)ether	UG/KG	67 U	3,500 U	2,300 U	3,600 U
bis(2-Ethylhexyl)phthalate	UG/KG	649 (16,060)	3,500 U (16,060)	2,300 U (16,060)	3,600 U (16,060)
Butylbenzylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Carbazole	UG/KG	67 U	3,500 U	2,300 U	160 J
Chrysene	UG/KG	264	540 J	460 J	1,300 J
Dibenz(a,h)anthracene	UG/KG	67 U	3,500 U	2,300 U	300 J

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

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Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
Dibenzofuran	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Diethylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Dimethylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Di-n-butylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Di-n-octylphthalate	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Fluoranthene	UG/KG	416 (82,110)	860 J (82,110)	720 J (82,110)	2,300 J (82,110)
Fluorene	UG/KG	67 U (644)	3,500 U (644)	2,300 U (644)	3,600 U (644)
Hexachlorobenzene	UG/KG	67 U (448,385)	3,500 U (448,385)	2,300 U (448,385)	3,600 U (448,385)
Hexachlorobutadiene	UG/KG	67 U (443)	3,500 U (443)	2,300 U (443)	3,600 U (443)
Hexachlorocyclopentadiene	UG/KG	130 U (354)	3,500 U (354)	2,300 U (354)	3,600 U (354)
Hexachloroethane	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Indeno(1,2,3-cd)pyrene	UG/KG	67 U	360 J	280 J	1,000 J
Isophorone	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Naphthalene	UG/KG	67 U (2,415)	3,500 U (2,415)	2,300 U (2,415)	3,300 J (2,415)
Nitrobenzene	UG/KG	67 U	3,500 U	2,300 U	3,600 U
N-Nitrosodimethylamine	UG/KG	67 U	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/KG	67 U	3,500 U	2,300 U	3,600 U
N-Nitrosodiphenylamine	UG/KG	67 U	3,500 U	2,300 U	3,600 U
Pentachlorophenol	UG/KG	130 U (3,220)	17,000 U (3,220)	11,000 U (3,220)	7,100 U (3,220)
Phenanthrene	UG/KG	227 (9,660)	350 J (9,660)	290 J (9,660)	1,100 J (9,660)
Phenol	UG/KG	130 U	3,500 U	2,300 U	3,600 U

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.

 Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result
 TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

TABLE 4
SUMMARY OF HISTORICAL SEDIMENT ANALYTICAL RESULTS - COMPARED TO BENTHIC
CHRONIC PROTECTION
PFOHL BROTHERS LANDFILL SITE

Location ID		SW-08	SW-08	SW-08	SW-08
Sample ID		SED-8	SW-08	SW-08-DUP	SED-08
Matrix		Sediment	Sediment	Sediment	Sediment
Depth Interval (ft)		-	0.0-0.5	0.0-0.5	-
Date Sampled		05/03/05	05/15/06	05/15/06	05/21/07
Parameter	Units			Field Duplicate (1-1)	
Semivolatile Organic Compounds					
Pyrene	UG/KG	755 (77,361)	620 J (77,361)	500 J (77,361)	1,800 J (77,361)
Polychlorinated Biphenyls					
Aroclor 1016	UG/KG	3.3 U (1,554)	34 U (1,554)	24 U (1,554)	NA
Aroclor 1221	UG/KG	3.3 U (1,554)	34 U (1,554)	24 U (1,554)	NA
Aroclor 1232	UG/KG	3.3 U (1,554)	34 U (1,554)	24 U (1,554)	NA
Aroclor 1242	UG/KG	3.3 U (1,554)	34 U (1,554)	24 U (1,554)	NA
Aroclor 1248	UG/KG	3.3 U (1,554)	34 U (1,554)	24 U (1,554)	NA
Aroclor 1254	UG/KG	3.3 U (1,554)	34 U (1,554)	24 U (1,554)	NA
Aroclor 1260	UG/KG	3.3 U (1,554)	34 U (1,554)	24 U (1,554)	NA
Miscellaneous Parameters					
Cyanide	MG/KG	1.91	1.8 UJ	1.3 UJ	2.2 U
Percent Dry	PERCENT	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/KG	80,500	80,500	80,500	80,500

Criteria- NYSDEC Technical Guidance for Screening Contaminated Sediments, Benthic Chronic Toxicity, January 25, 1999.

(NV) - No Calculable Value, TOC Not Detected

Flags assigned during chemistry validation are shown.



Concentration Exceeds Criteria.

J - The analyte was positively identified, the quantitation is an estimation.

Applicable criteria derived from sample-specific TOC levels reported in parentheses after analytical result

TOC values measured May 2007. TOC value for location SW-05 based on average of other samples taken.

NA - Not Analyzed

Detection Limits shown are PQL

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

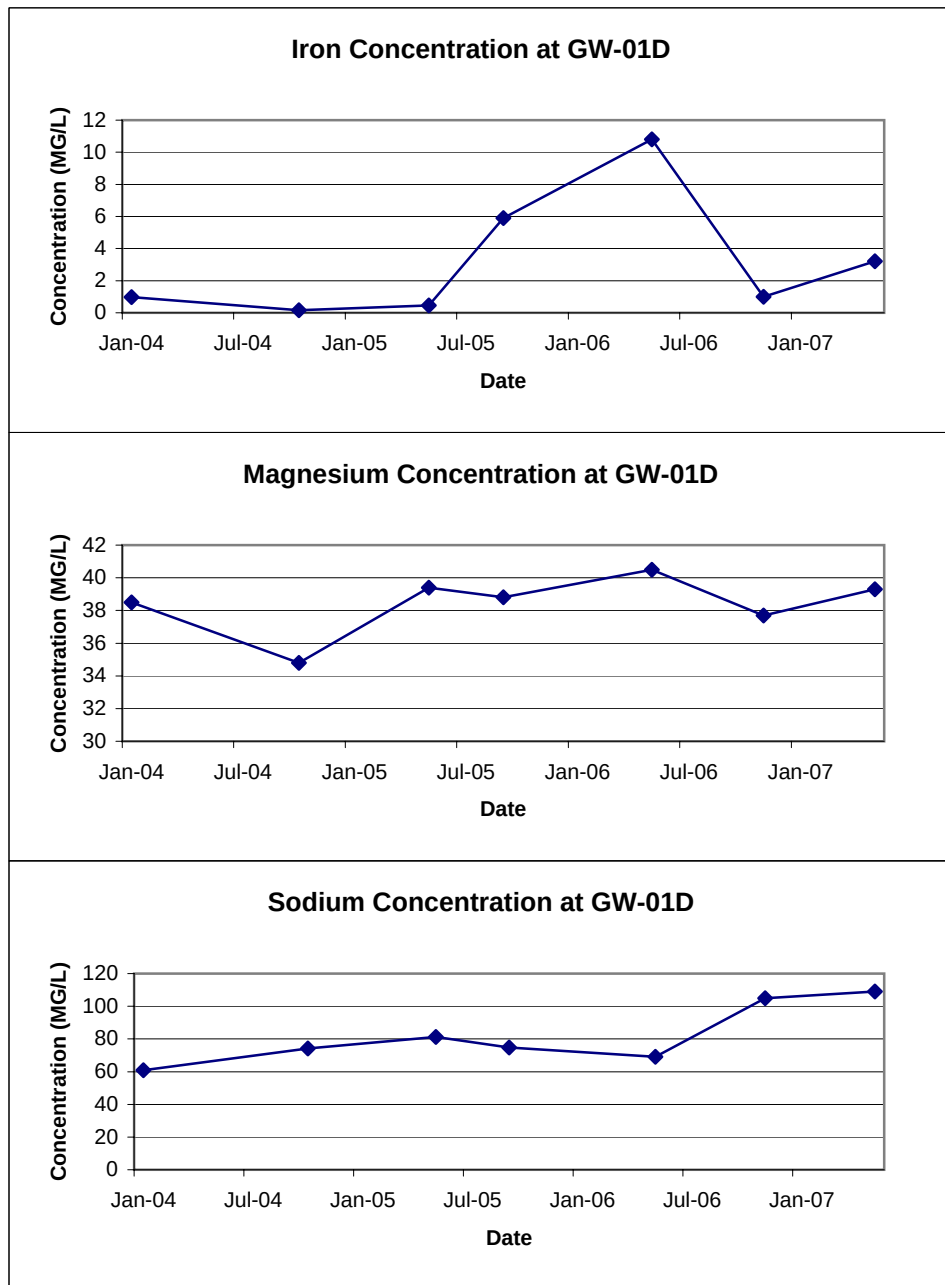


FIGURE E-2
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-1S

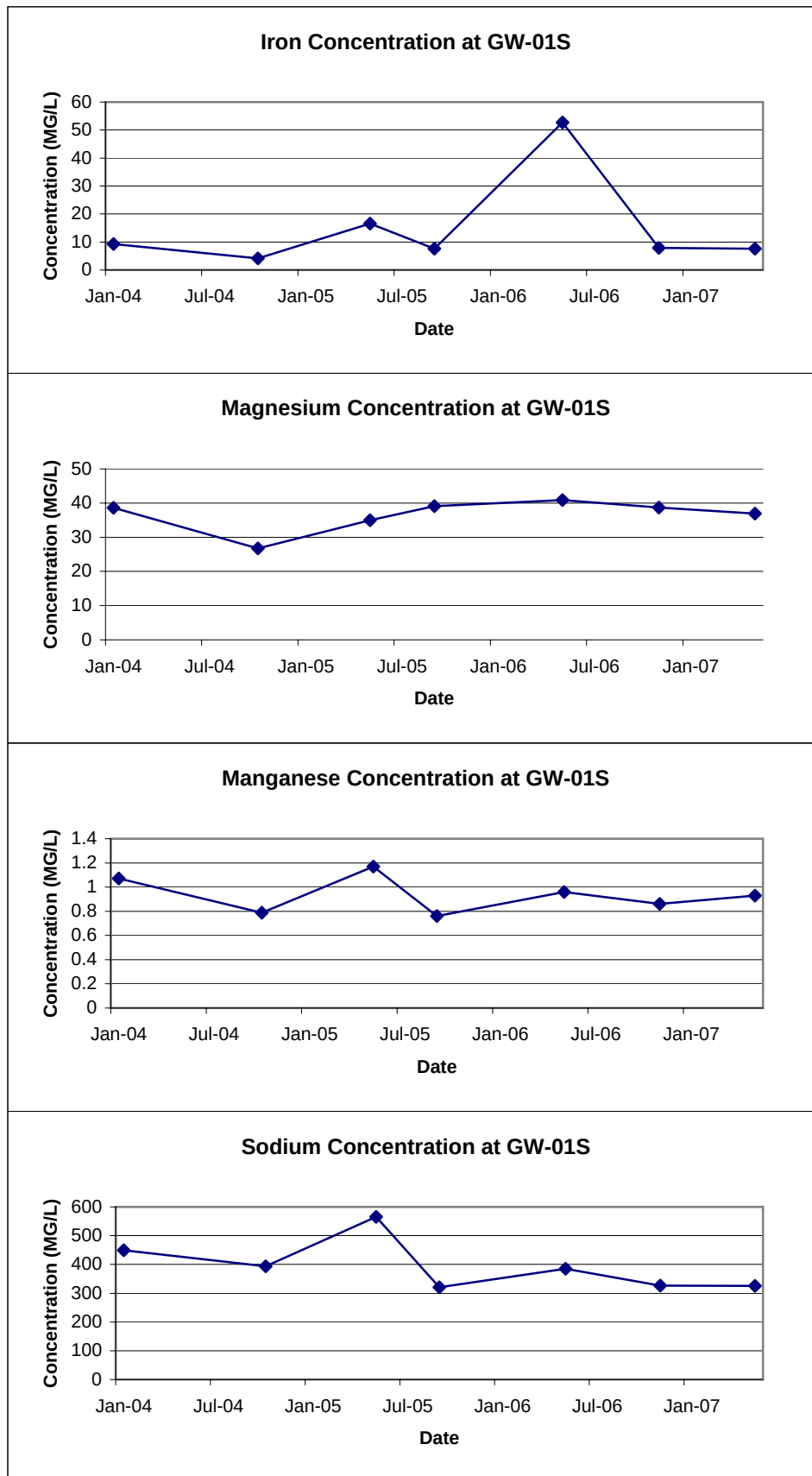


FIGURE E-3
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-3D

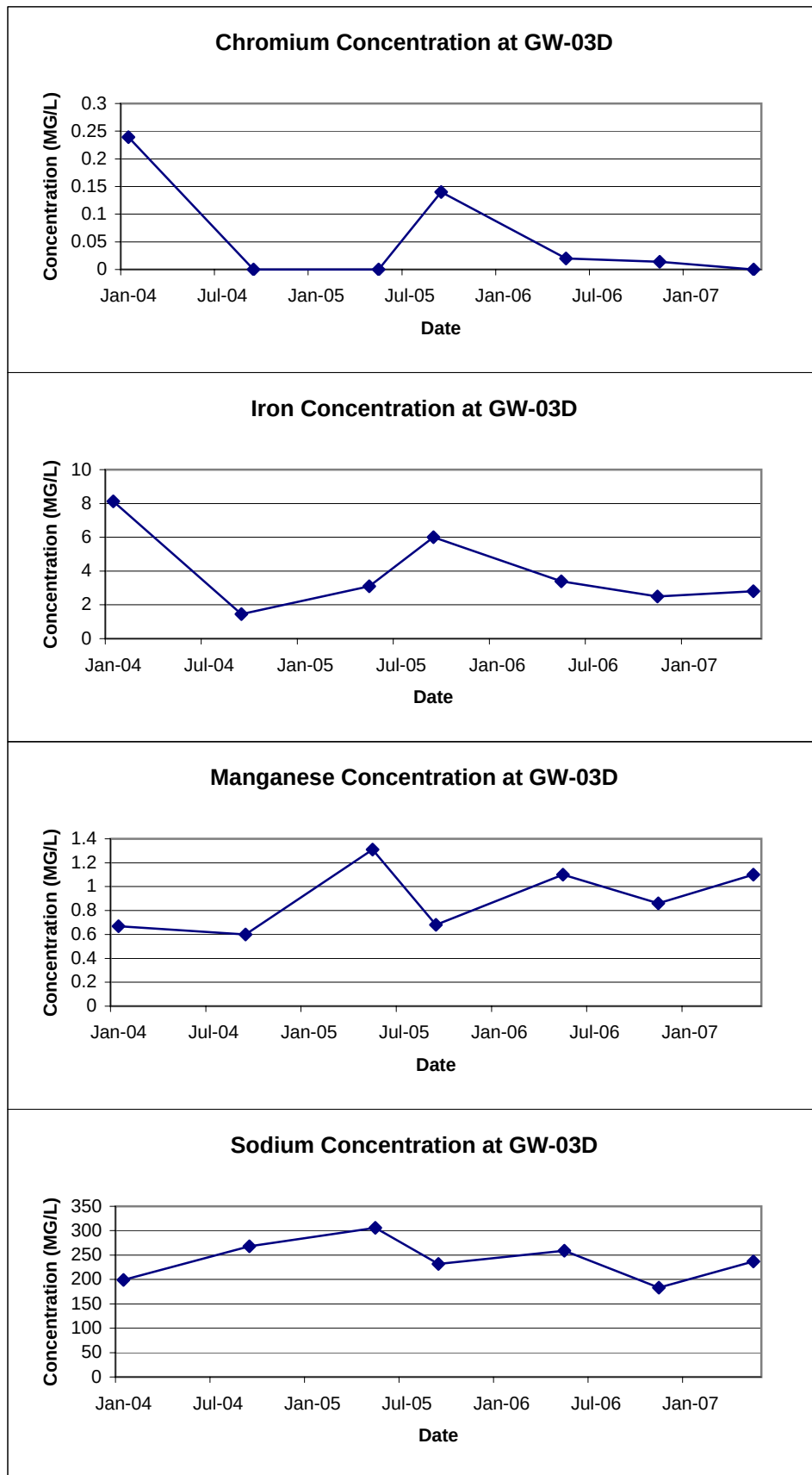


FIGURE E-4
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-3S

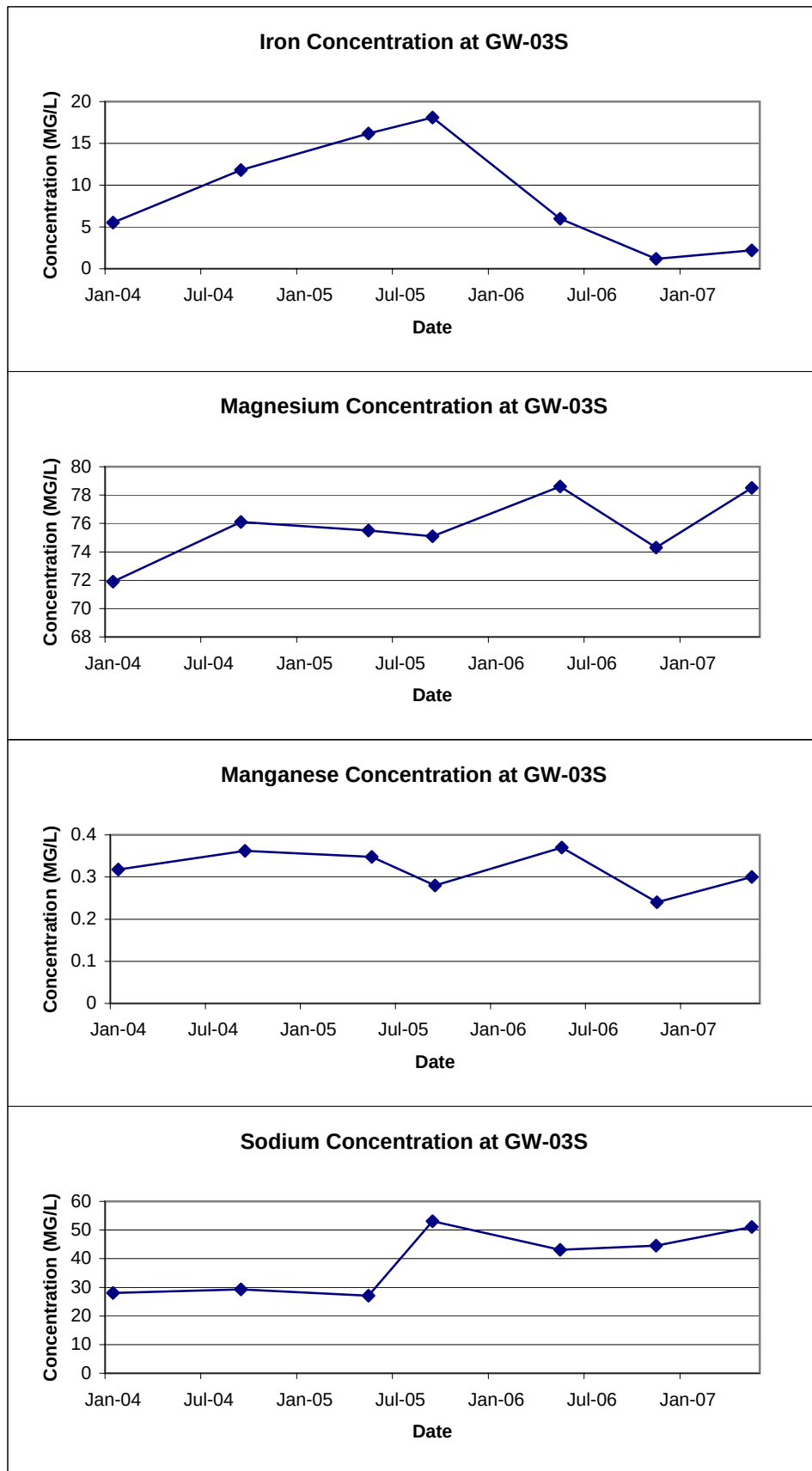


FIGURE E-5
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-04D

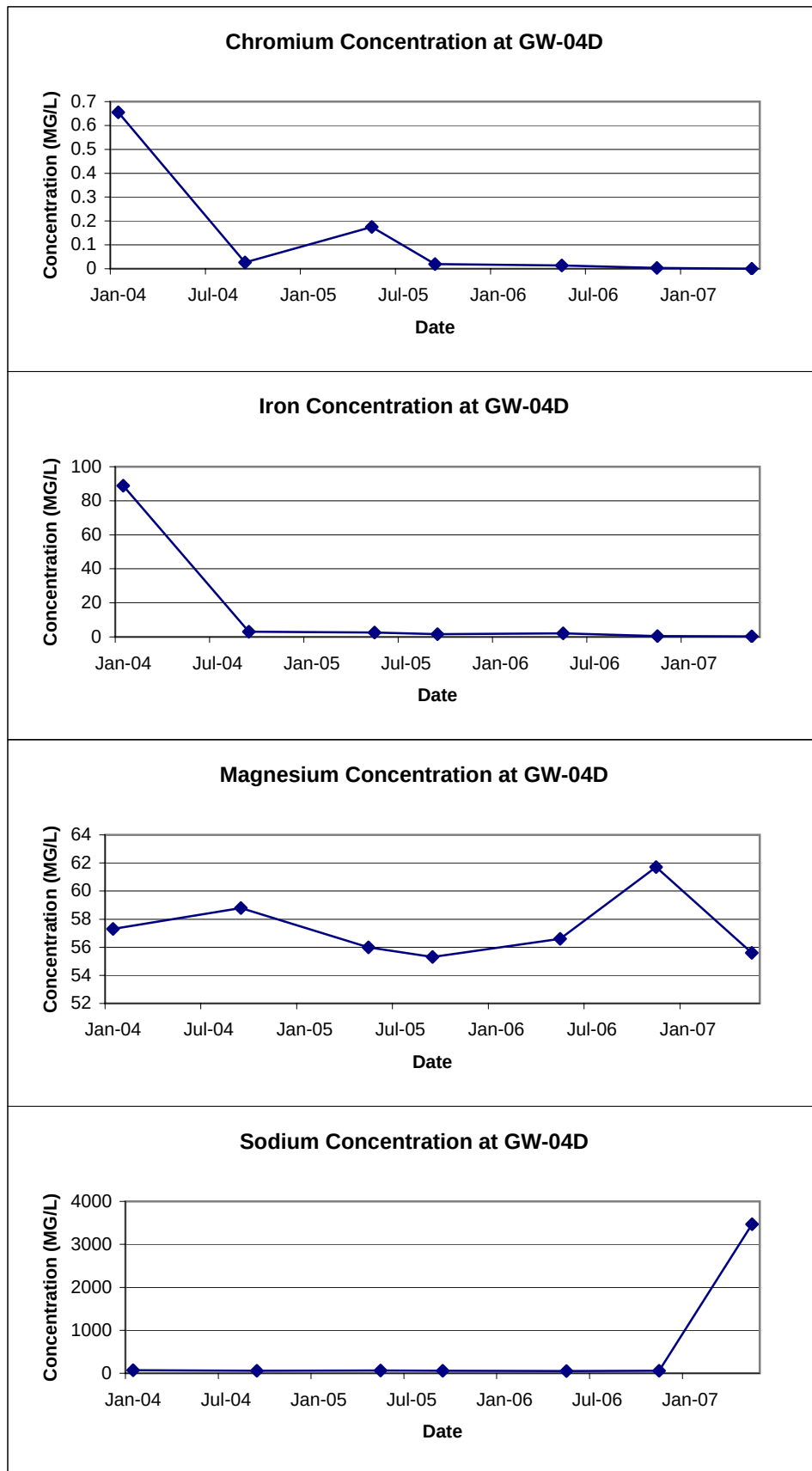


FIGURE E-6
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-4S

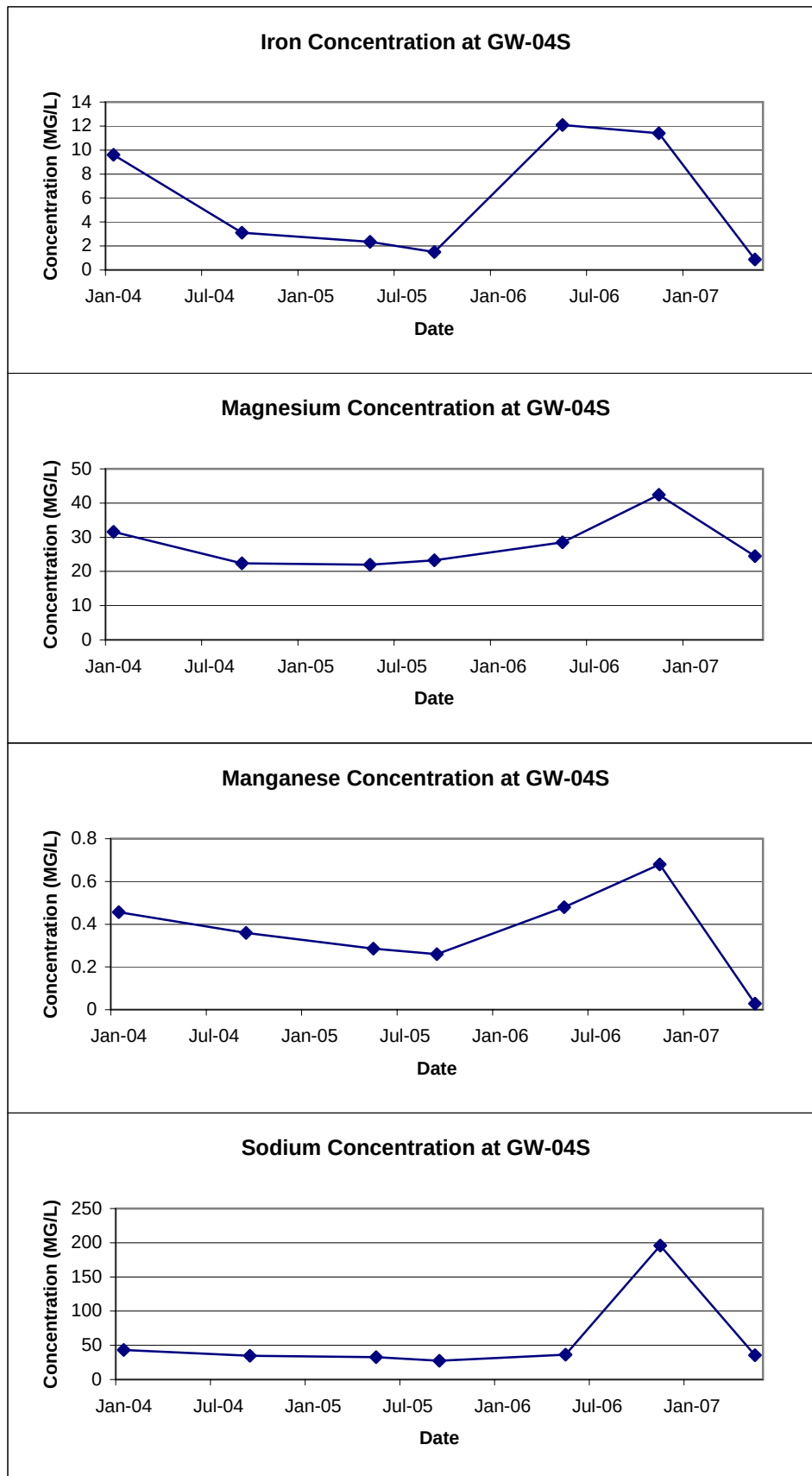


FIGURE E-7
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-7D

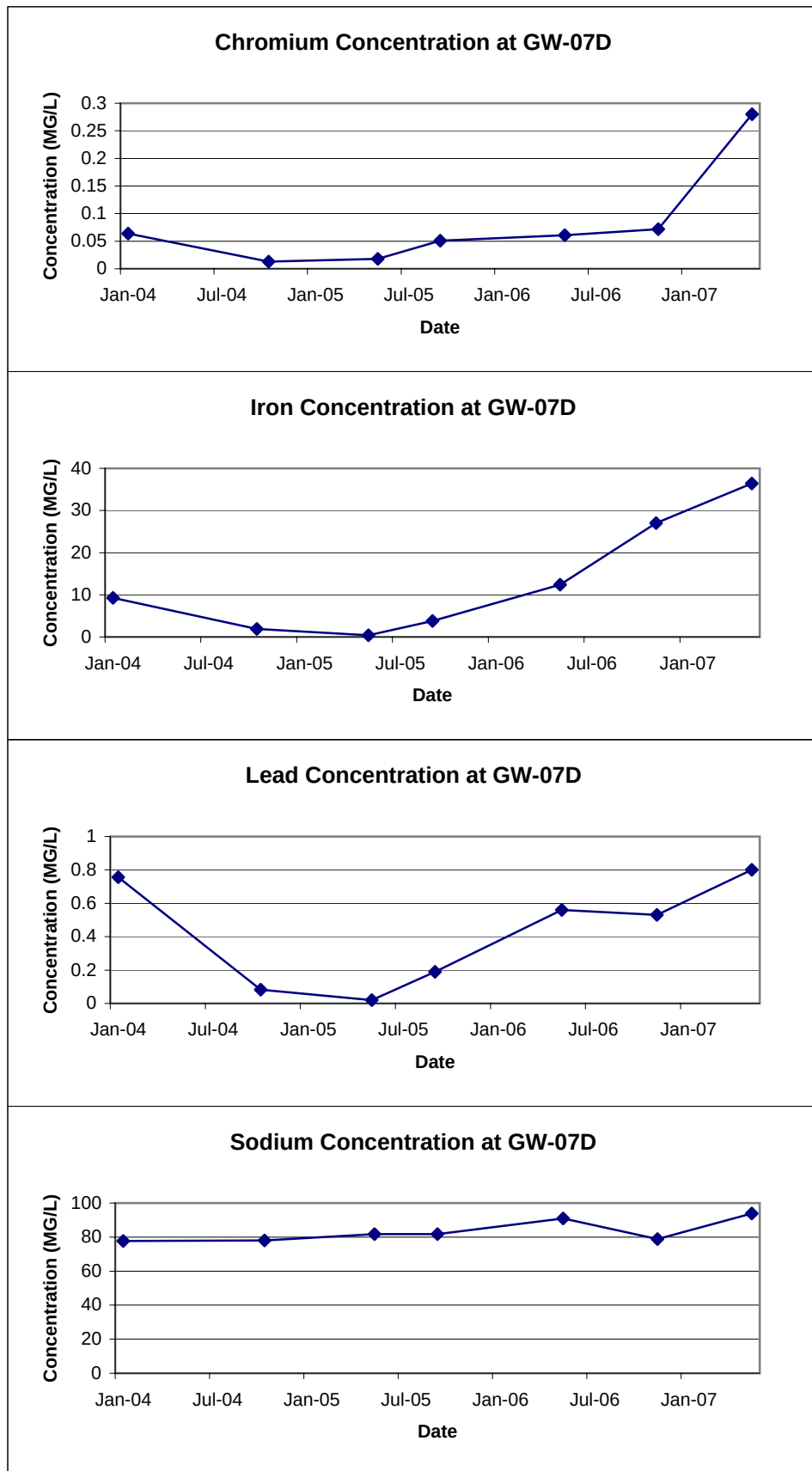


FIGURE E-8
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-7S

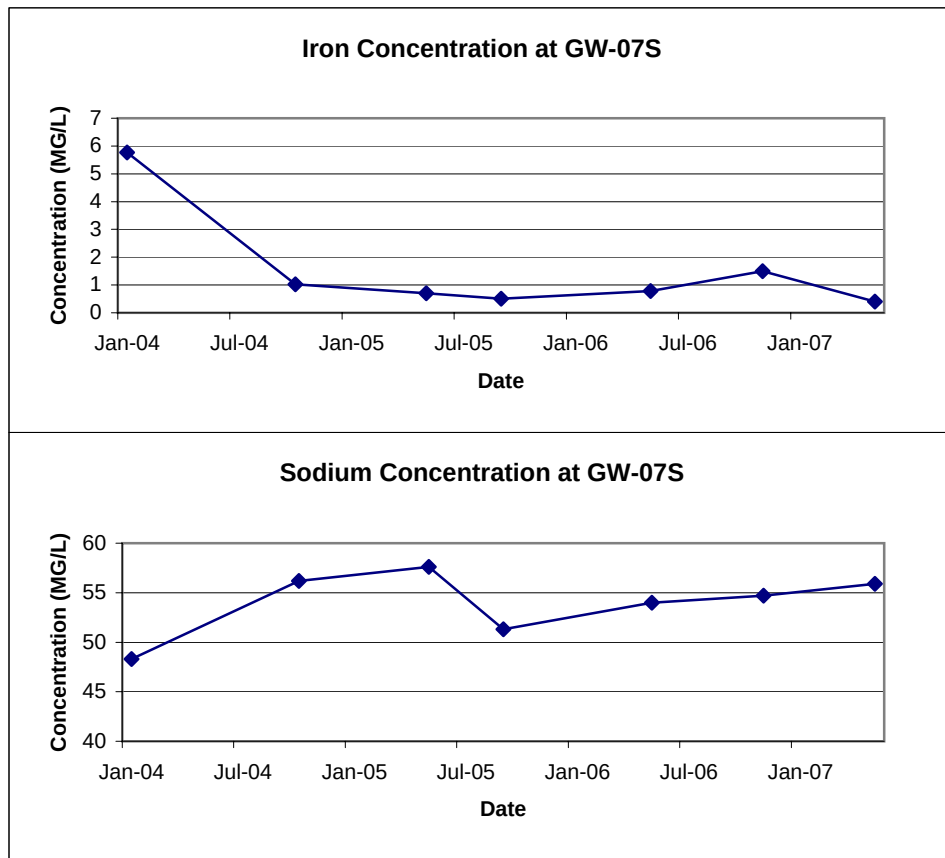


FIGURE E-9
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-8D

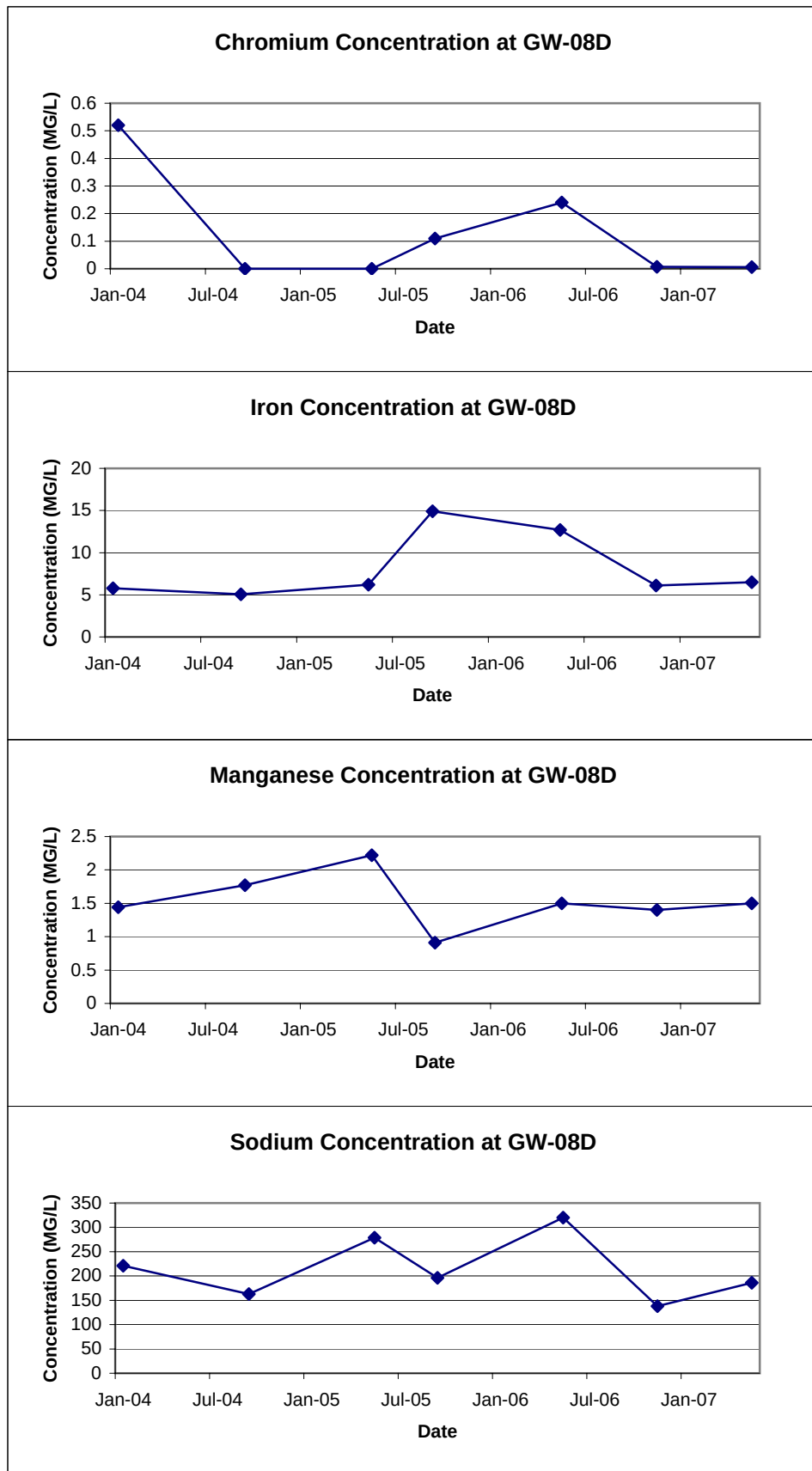


FIGURE E-10
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-08SR

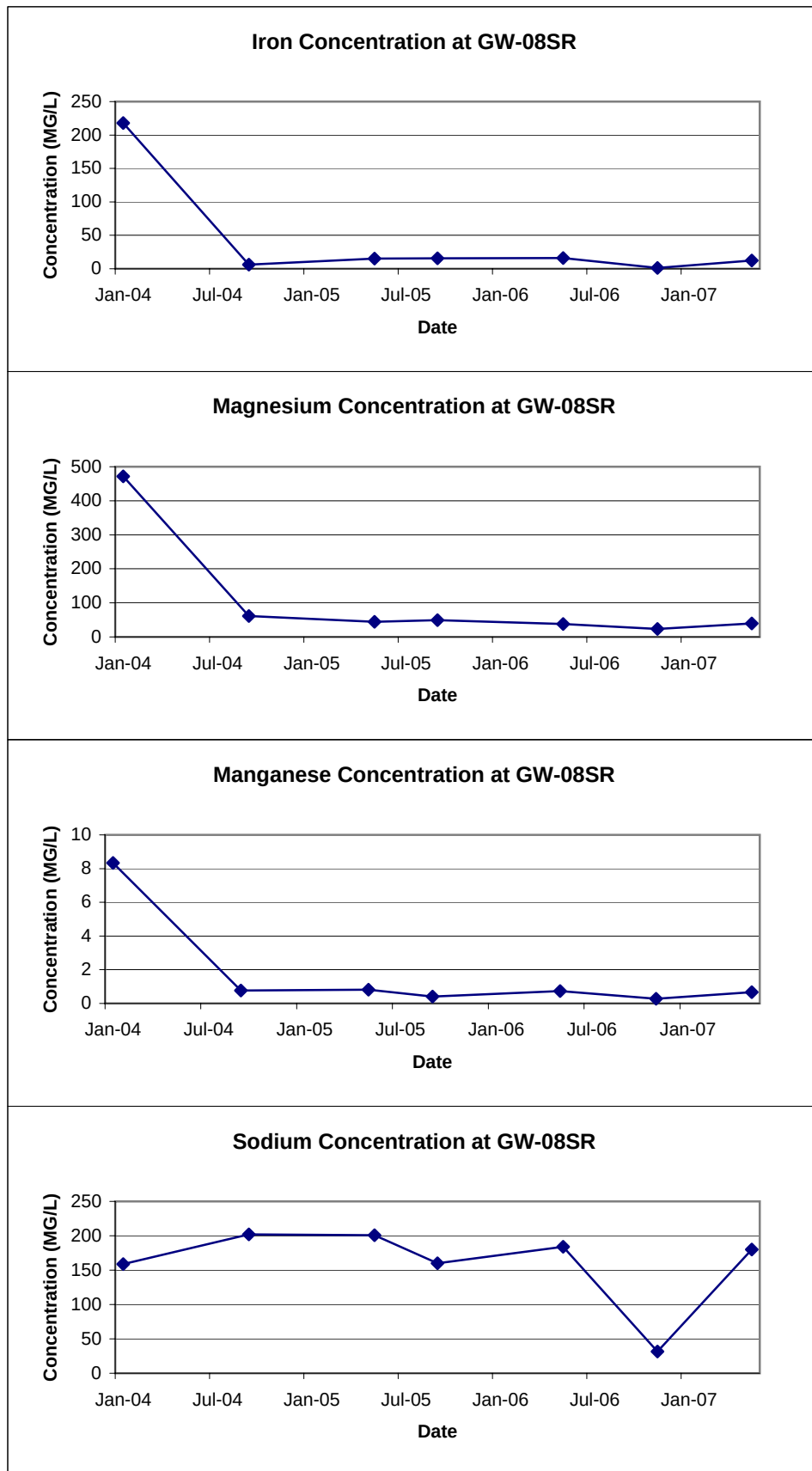


FIGURE E-11
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-26D

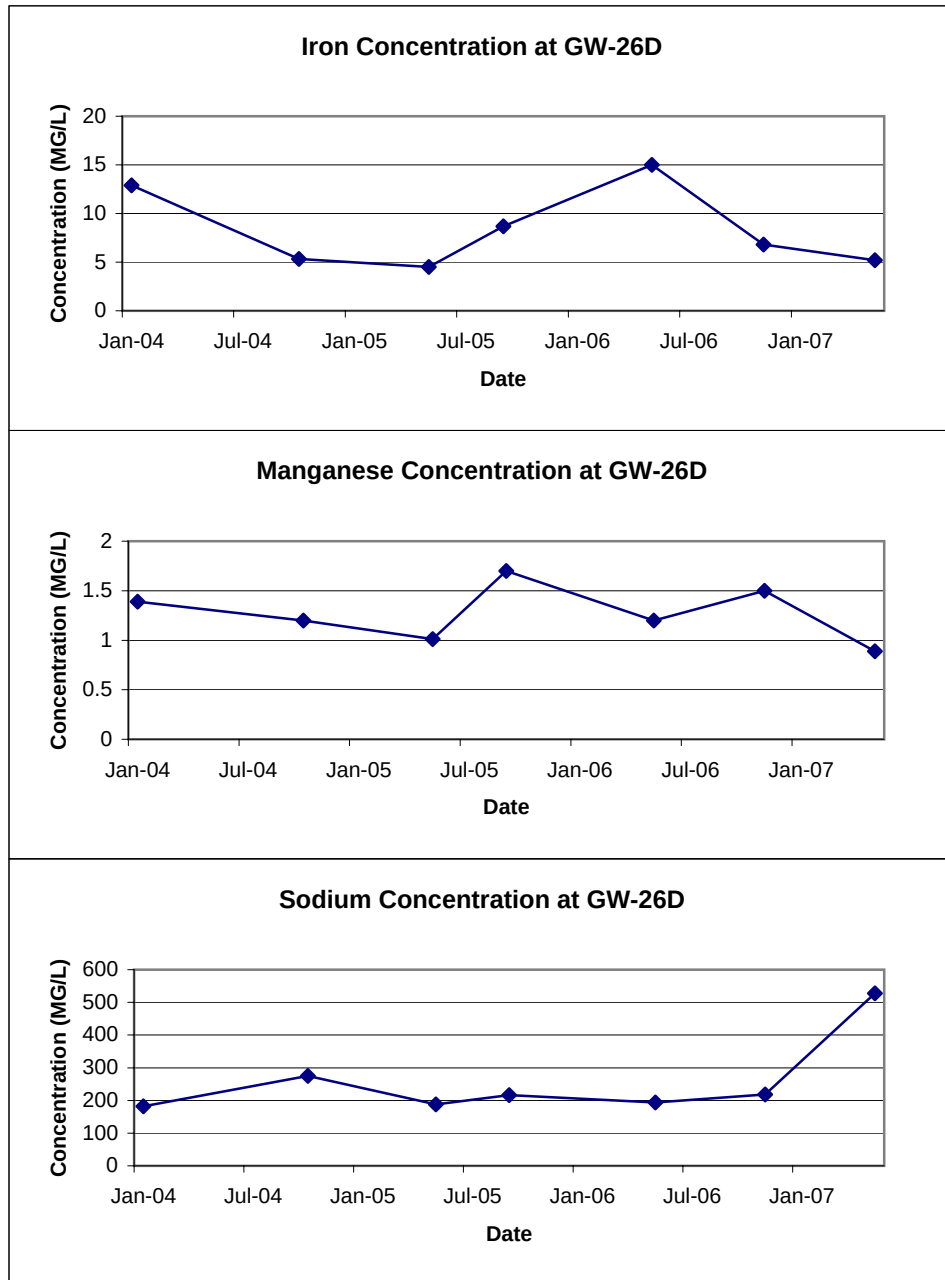


FIGURE E-12
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-28S

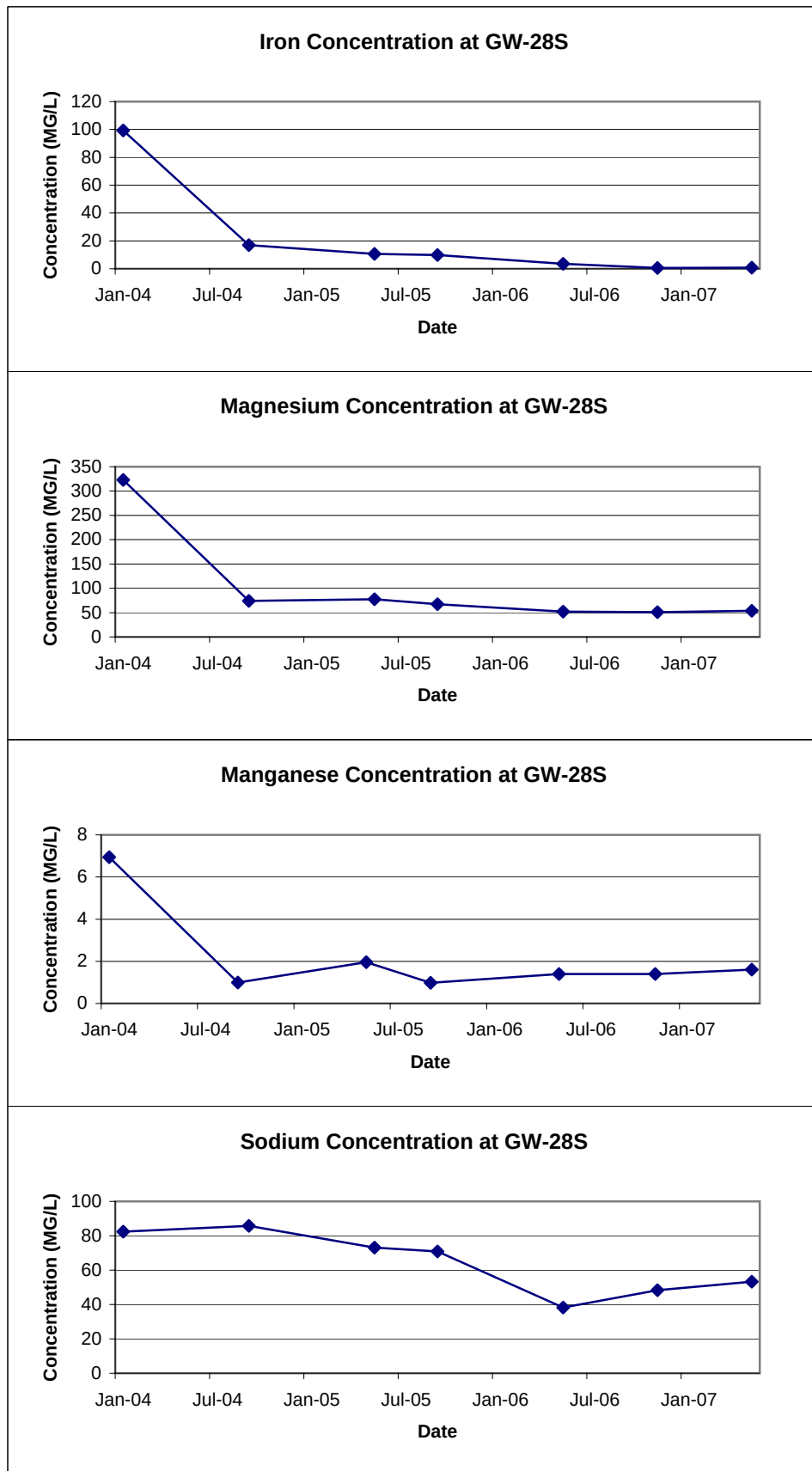


FIGURE E-13
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-29S

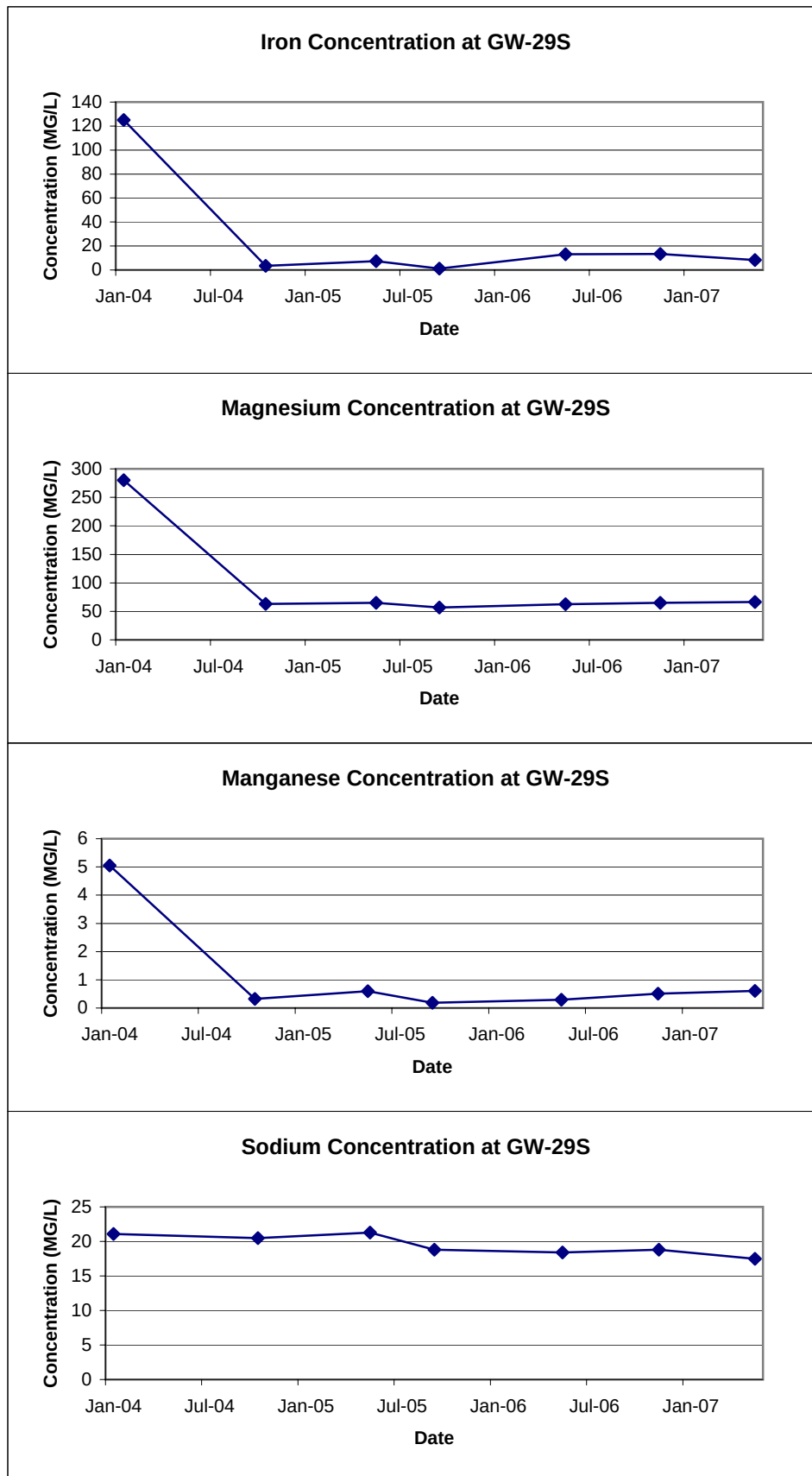


FIGURE E-14
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-30S

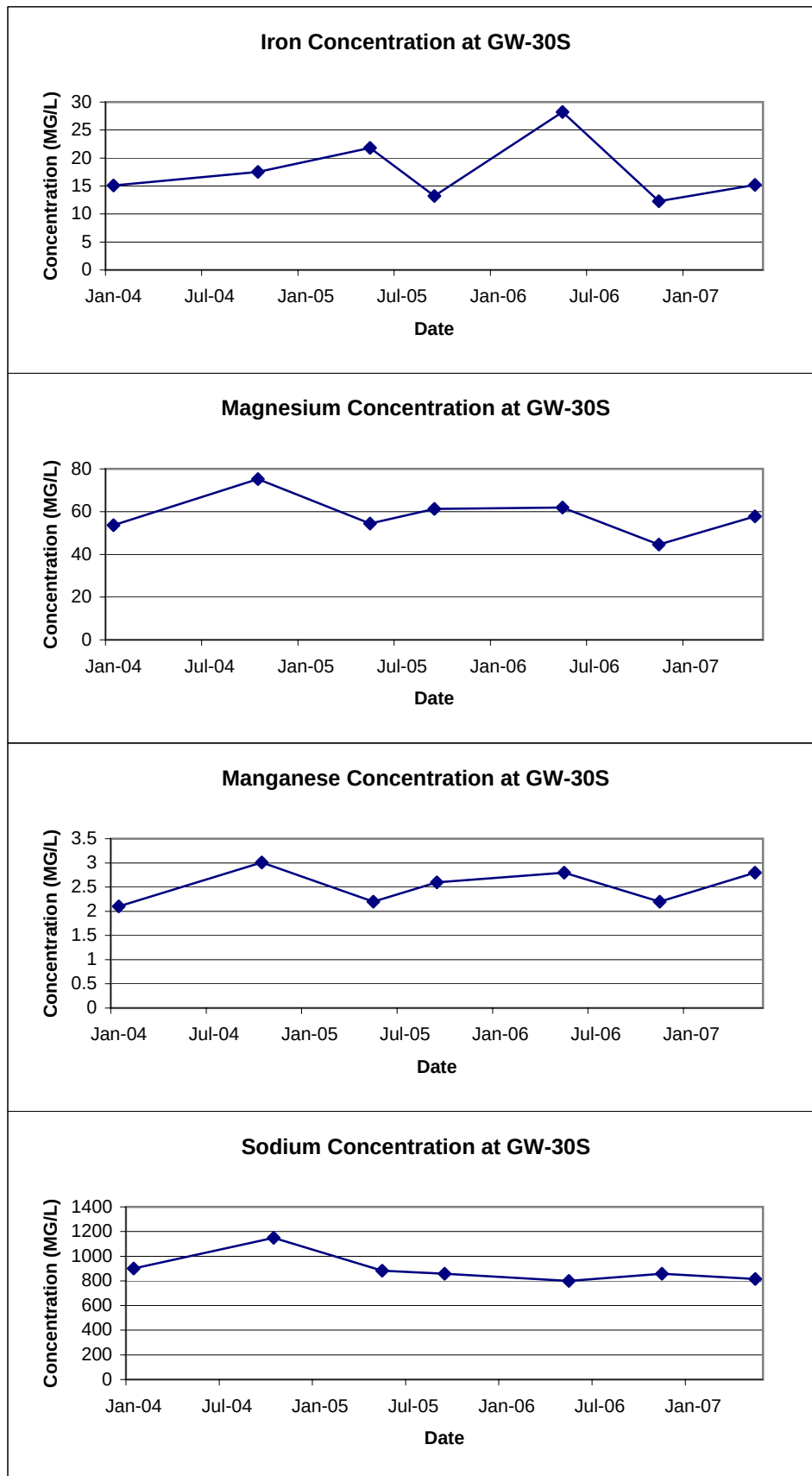


FIGURE E-15
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-31S

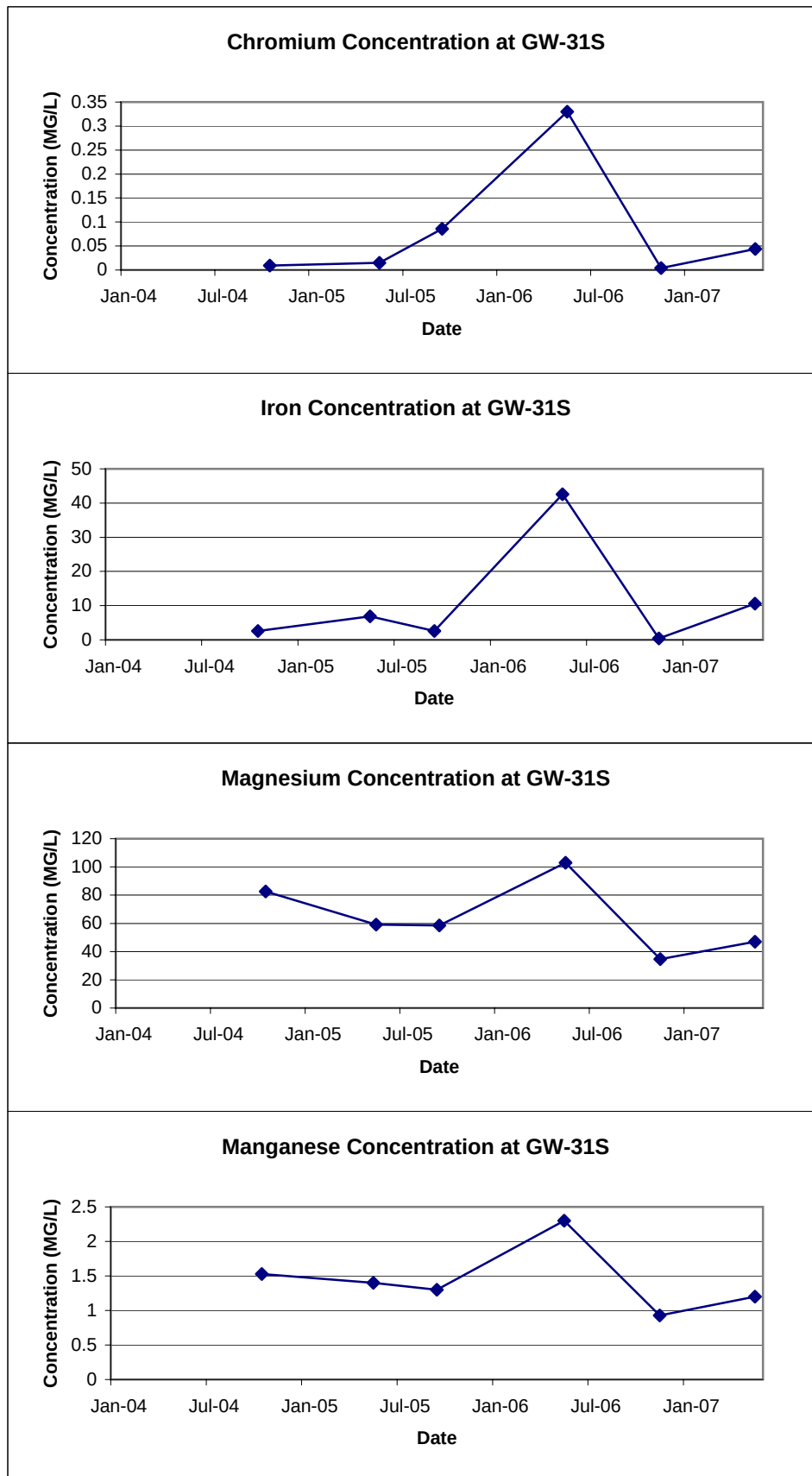


FIGURE E-16
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-32S

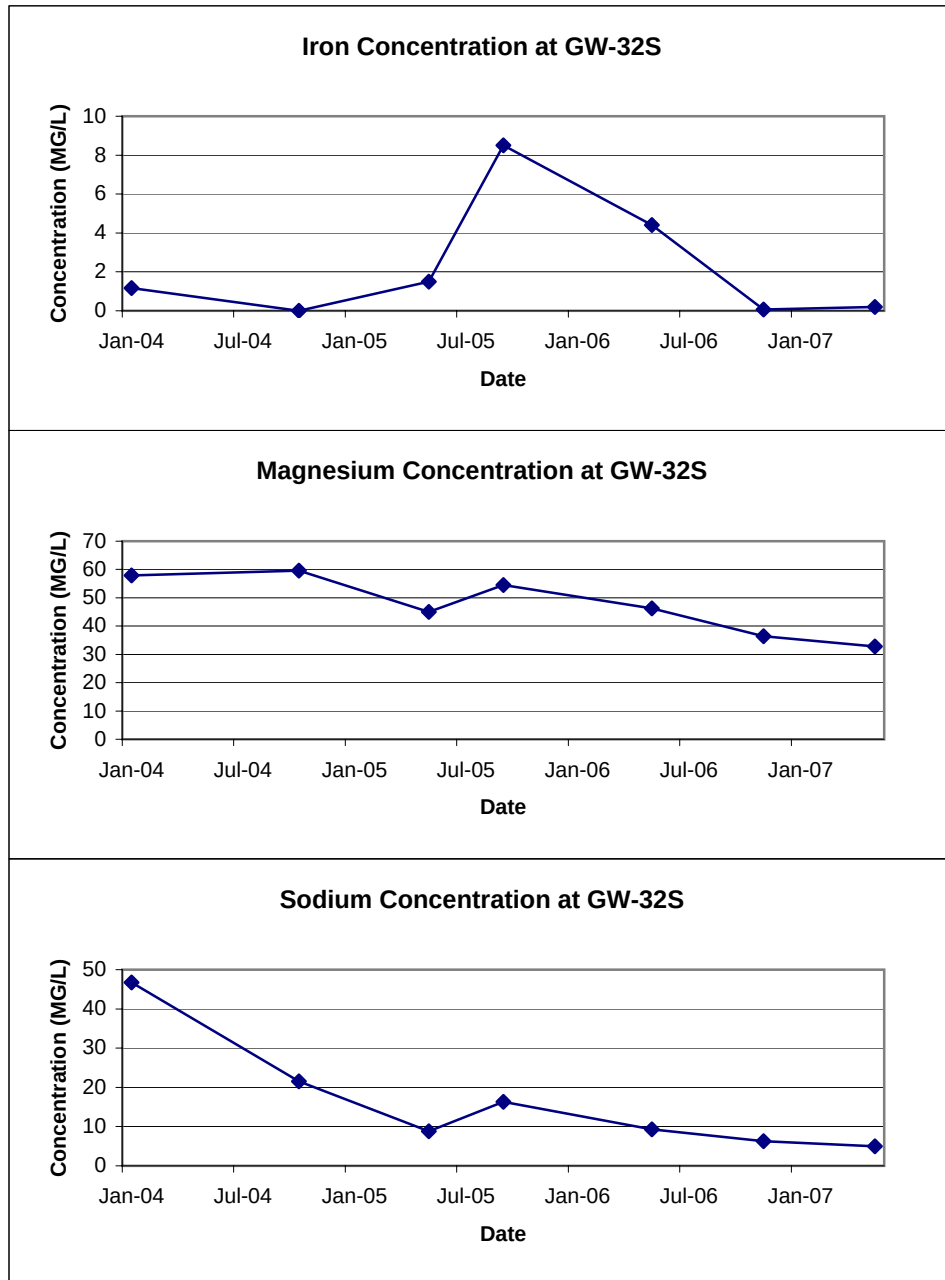


FIGURE E-17
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-33S

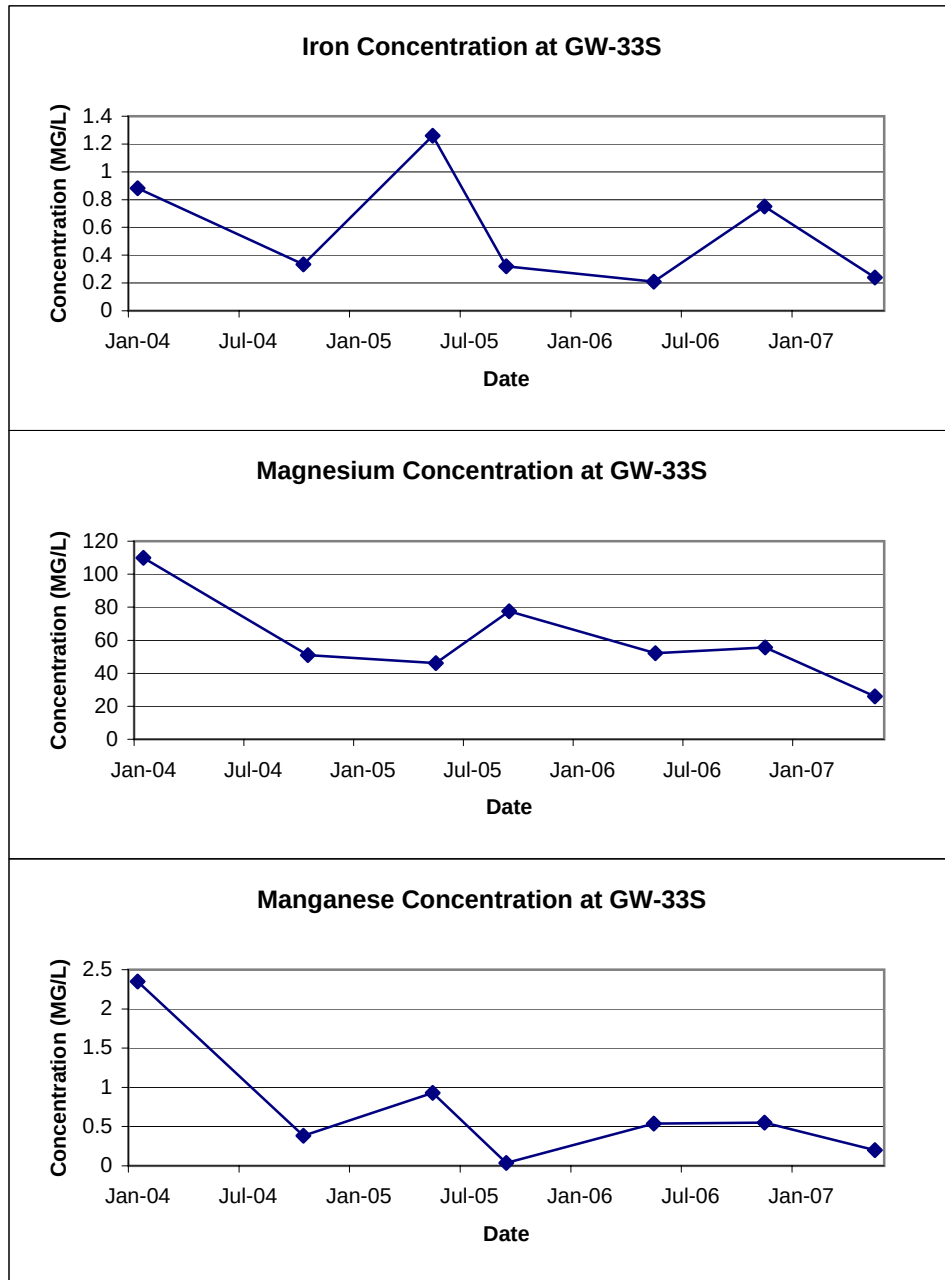


FIGURE E-18
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-34S

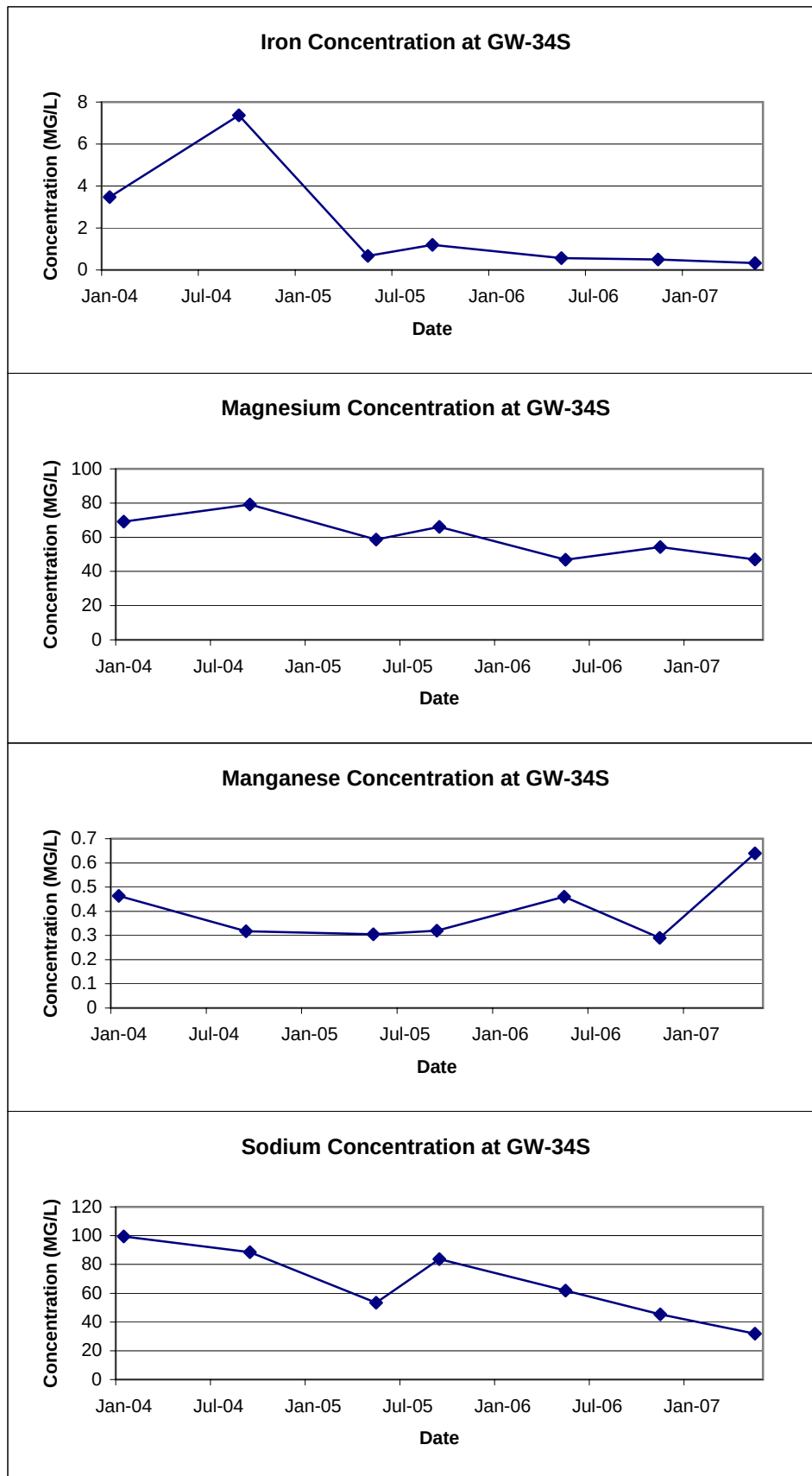
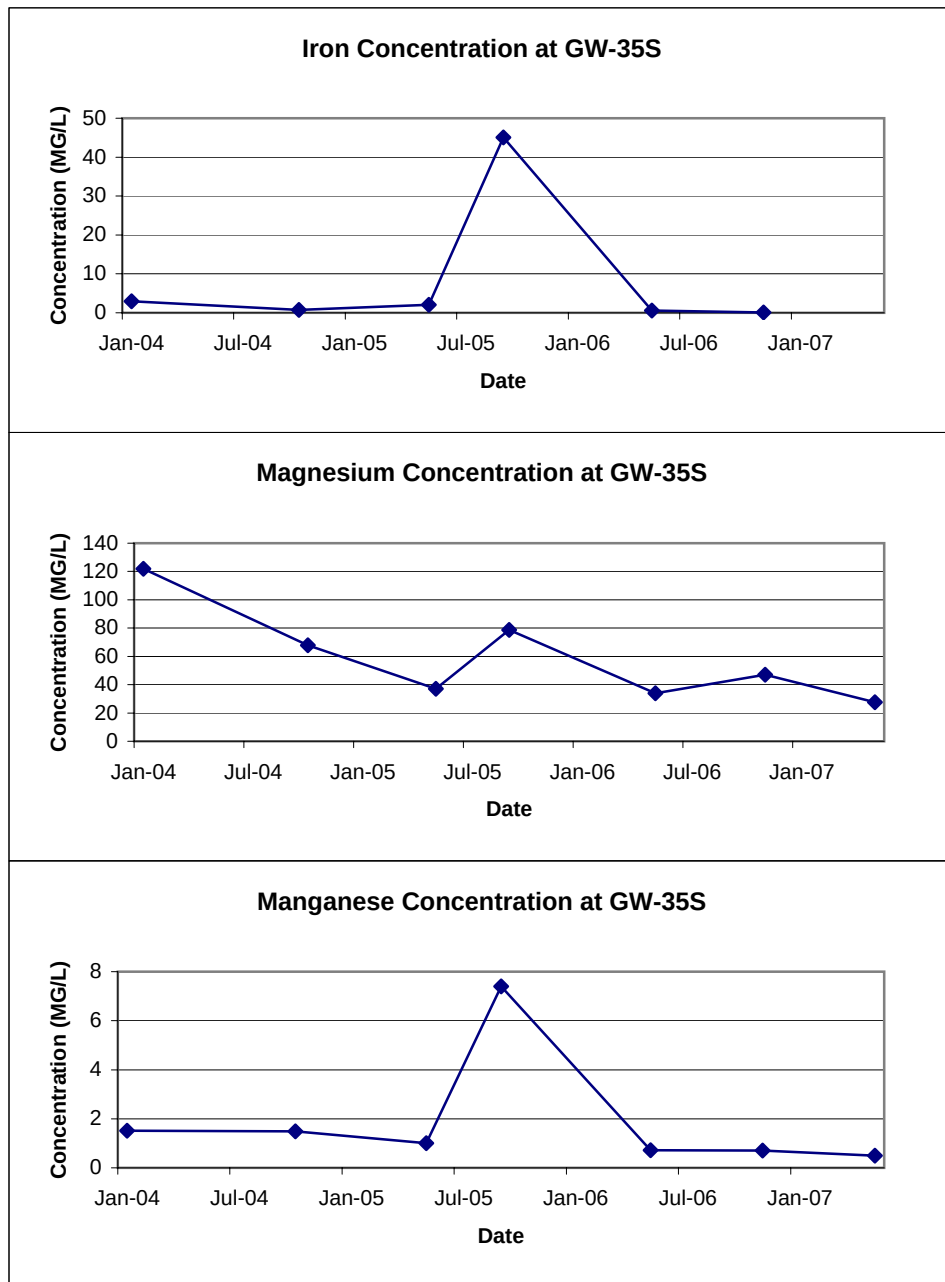


FIGURE E-19
TRENDS OF PARAMETERS ROUTINELY EXCEEDING GROUNDWATER STANDARDS
IN MONITORING WELL GW-35S



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⁾	Sampling Requirements	
		Daily Max	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⁾	Sampling Requirements	
		Daily Max	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

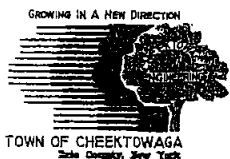
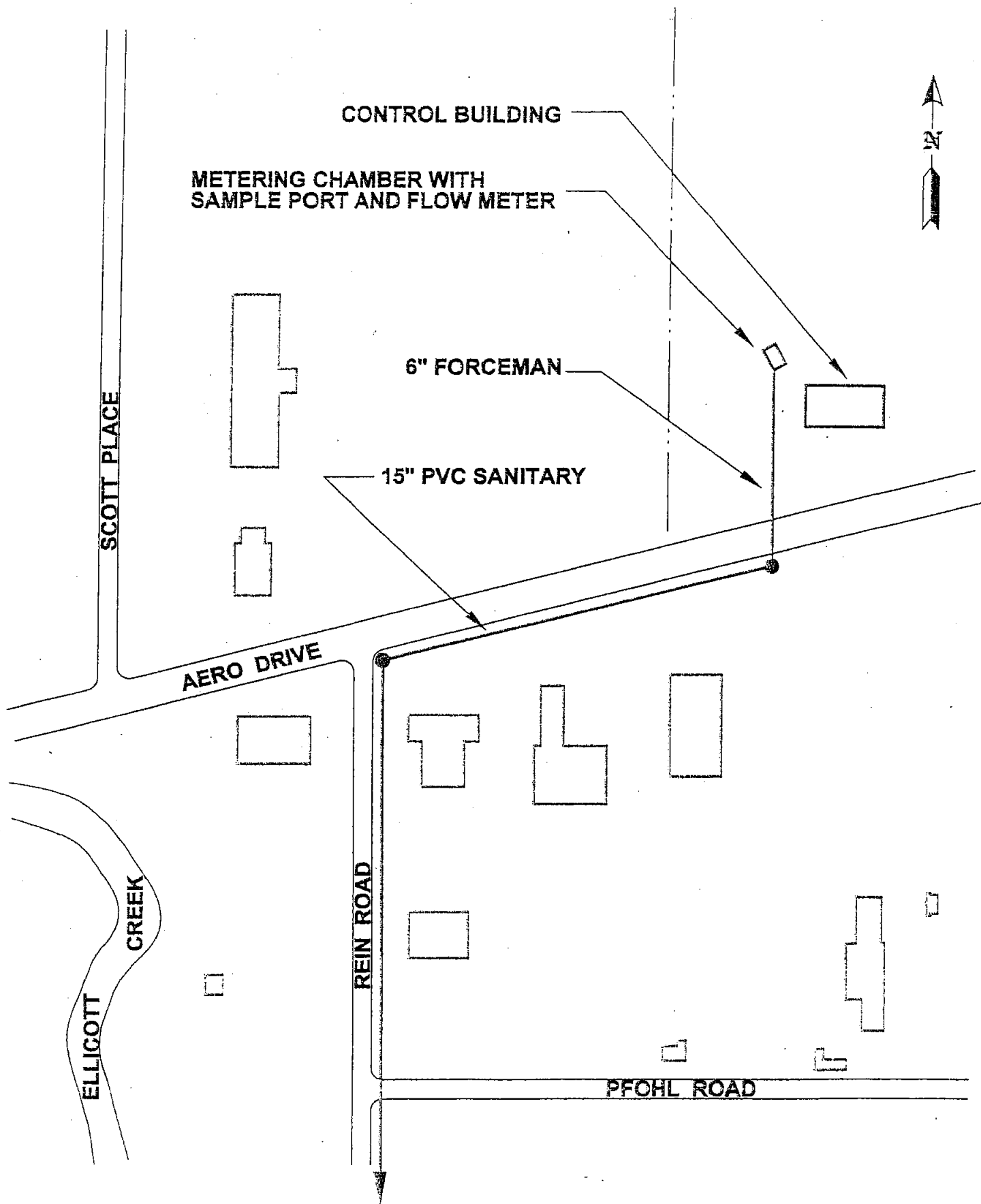
During the period beginning the effective date of this permit and lasting until the expiration date, discharge monitoring results shall be summarized and reported **quarterly** by the permittee on the days specified below:

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 31 st , June 30 th , September 30 th and December 31 st
	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.



TOWN OF CHEEKTOWAGA
CHEEKTOWAGA ENGINEERING DEPT.
ALEXANDER COMMUNITY CENTER
275 ALEXANDER AVE.
CHEEKTOWAGA, NEW YORK 14221
PHONE: (716) 897-7288
FAX: (716) 897-7299

PFOHL BROTHERS LANDFILL SITE

DRAWN BY:	MARK J. CHRISTEL
DATE:	10/28/2002
REVISED:	-
SCALE:	NONE

EXHIBIT

1

FILE: (M: PFOHL BROS.)

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: 3/28/07 Crew: R. Murphy, R. Frears, D. Cofield

Weather: 42° F, clear

Sampling Device: NA

Time of Installation: 10:40 Type of Sample: Composite

Sample Interval: NA Sample Volume: NA

Comments and Observations: Wet well WW-06 was pumping at the time of sample set-up.
PLC display volumes: WW-01 (792,028 gals), WW-02 (22,925 gals), WW-03 (875,758 gals),
WW-04 (4,564,853 gals), WW-05 (2,231,196 gals), WW-06 (3,542,959 gals) & MH-25 (11,426,544 gals).

Date: 3/29/07 Crew: R. Murphy, M. Rozeski, D. Cofield

Weather: 38° F, clear

Time of Collection: 11:10

Field Measurements:

11:10/RM pH Calibration: Buffer 7- 7 Buffer 4- 4 Buffer 10- 10
(time/initial)

pH Measurement: 7.55

Temperature: 7.2°C

Identification: EFF-032907

Physical Observations: _____

Laboratory: Severn Trent, Buffalo, NY

Comments: Wet well WW-04 was pumping at the conclusion of the sampling period.
PLC display volumes: WW-01 (792,028 gals), WW-02 (22,925 gals), WW-03 (875,758 gals),
WW-04 (4,579,077 gals), WW-05 (2,241,973 gals), WW-06 (3,554,654 gals) & MH-25 (11,461,626 gals).

Reviewed By: _____ Date: _____
(Supervisor)

TABLE 1

**PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING
ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS
MARCH 2007**

Sample ID	EFFLUENT			
Matrix	Effluent Water			
Date Sampled	3/29/2007			
Parameter	Result	Mass Loading	Discharge Limitation	Violations
	(mg/L)	(lbs/day)	(lbs/day)	(Y/N)
Total Barium	0.25	0.15	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	0.011	0.007	5.84	No
Total Suspended Solids	ND	NA	250 ⁽³⁾	No
pH ⁽⁴⁾	7.55	NA	5.0 - 12.0	No
Total Flow ⁽⁵⁾		71,778	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

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

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: 6/21/07 Crew: M. Kandefer, R. Piurek, D. Cofield

Weather: 70° F, partly sunny

Sampling Device: NA

Time of Installation: 8:15 Type of Sample: Composite

Sample Interval: NA Sample Volume: NA

Comments and Observations: Wet well WW-06 was pumping at the time of sample set-up.
PLC display volumes: WW-01 (1,014,241 gals), WW-02 (22,777 gals), WW-03 (1,245,801 gals),
WW-04 (5,721,219 gals), WW-05 (2,731,420 gals), WW-06 (4,486,441 gals) & MH-25 (14,490,622 gals).

Date: 6/22/07 Crew: M. Kandefer, R. Piurek, D. Cofield

Weather: 62° F, clear

Time of Collection: 8:35

Field Measurements:

8:35 pH Calibration: Buffer 7- 7 Buffer 4- 4 Buffer 10- 10
(time/initial)

pH Measurement: 7.40

Temperature: 15.0°C

Identification: EFF-062207

Physical Observations: _____

Laboratory: Severn Trent, Buffalo, NY

Comments: Wet well WW-04 was pumping at the conclusion of the sampling period.
PLC display volumes: WW-01 (1,014,256 gals), WW-02 (22,777 gals), WW-03 (1,245,801 gals),
WW-04 (5,721,921 gals), WW-05 (2,731,420 gals), WW-06 (4,486,441 gals) & MH-25 (14,491,273 gals).

Reviewed By: _____ Date: _____
(Supervisor)

TABLE 1

**PFOHL BROTHERS LANDFILL - EFFLUENT MONITORING
ANALYTICAL RESULTS, TOTAL FLOW, AND MASS LOADINGS
JUNE 2007**

Sample ID	EFFLUENT			
Matrix	Effluent Water			
Date Sampled	6/22/2007			
Parameter	Result	Mass Loading	Discharge Limitation	Violations
	(mg/L)	(lbs/day)	(lbs/day)	(Y/N)
Total Barium	0.4	0.002	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	0.013	0.0001	5.84	No
Total Suspended Solids	ND	NA	250 ⁽³⁾	No
pH ⁽⁴⁾	7.4	NA	5.0 - 12.0	No
Total Flow ⁽⁵⁾		651	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

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

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: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date of Sample Collection: 21-May-07

Sample I.D. Number	Sample Location	Est. Stream Width	Est. Stream Depth	Est. Stream Velocity	Field pH	Field Temp. (° F)	Field Turb. (NTU)	Field Cond. (mS)	Time	Sample Analysis	Sample Description
SW-1	SW-1	15'	0.5'	0.1 f/sec	---	---	---	---	10:45	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, no sheen
SED-1	SED-1	---	---	---	---	---	---	---	11:00	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-2	SW-2	10'	1.0'	none	---	---	---	---	11:40	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, slight sheen
SED-2	SED-2	---	---	---	---	---	---	---	11:50	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-3	SW-3	20'	0.5'	none	---	---	---	---	12:20	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, no sheen
SED-3	SED-3	---	---	---	---	---	---	---	12:30	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-3 MS	SW-3	20'	0.5'	none	---	---	---	---	12:20	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, no sheen
SED-3 MS	SED-3	---	---	---	---	---	---	---	12:30	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Dark gray, silt some organics trace sand

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: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date of Sample Collection: 21-May-07

Sample I.D. Number	Sample Location	Est. Stream Width	Est. Stream Depth	Est. Stream Velocity	Field pH	Field Temp. (° F)	Field Turb. (NTU)	Field Cond. (mS)	Time	Sample Analysis	Sample Description
SW-3 MSD	SW-3	20'	0.5'	none	---	---	---	---	12:20	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, no sheen
SED-3 MSD	SED-3	---	---	---	---	---	---	---	12:30	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-6	SW-6	4'	0.5'	none	---	---	---	---	13:55	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, slight sheen
SED-6	SED-6	---	---	---	---	---	---	---	14:05	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-7	SW-7	8'	0.5'	0.1 f/sec	---	---	---	---	13:35	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, no sheen
SED-7	SED-7	---	---	---	---	---	---	---	13:45	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Dark gray, silt some organics trace sand
SW-8	SW-8	15'	0.5'	0.1 f/sec	---	---	---	---	15:25	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, slight sheen
SED-8	SED-8	---	---	---	---	---	---	---	15:35	VOC/SVOC/Metals/TOC/Cyanide/Gamma spec	Sediment: Black, silt w/ 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: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date of Sample Collection: 21-May-07

Sample I.D. Number	Sample Location	Est. Stream Width	Est. Stream Depth	Est. Stream Velocity	Field pH	Field Temp. (° F)	Field Turb. (NTU)	Field Cond. (mS)	Time	Sample Analysis	Sample Description
SW-4 Dup	SW-4	20'	0.5'	none	---	---	---	---	---	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, slight sheen
SED-4 Dup	SED-4	---	---	---	---	---	---	---	---	VOC/SVOC/Metals/TOC/ Cyanide/Gamma spec	Sediment: Black, silt w/ root system organics
SW-4	SW-4	20'	0.5'	none	---	---	---	---	14:40	VOC/SVOC/Metals/ Cyanide/Gamma spec	Surface water: Clear, no odor, slight sheen
SED-4	SED-4	---	---	---	---	---	---	---	14:45	VOC/SVOC/Metals/TOC/ Cyanide/Gamma spec	Sediment: Black, silt w/ root system 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: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date(s) of Inspection: May 21, 2007

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	3.43	14.94	
GW-1D	OK	OK	OK	OK	3.42	39.64	
GW-3S	OK	OK	OK	OK	4.09	13.26	
GW-3D	OK	OK	OK	OK	2.02	35.65	
GW-4S	OK	OK	OK	OK	5.12	16.28	
GW-4D	OK	OK	OK	OK	13.06	45.56	
GW-7S	OK	OK	OK	OK	5.66	35.02	
GW-7D	OK	OK	OK	Damaged	23.15	60.60	

Additional Comments:

WELL INSPECTION SUMMARY

Project Name: Pfohl Brothers Landfill

Project Number: 11172700.00004

Inspection Crew Members: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date(s) of Inspection: May 21, 2007

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	5.63	13.03	
GW-8D	OK	OK	OK	OK	5.91	36.58	
GW-26D	OK	OK	OK	OK	6.86	40.75	
GW-28S	OK	OK	OK	OK	7.51	15.58	
GW-29S	OK	OK	OK	OK	7.21	20.02	
GW-30S	OK	OK	OK	OK	7.46	17.98	
GW-31S	OK	OK	OK	OK	3.14	9.55	
GW-32S	OK	OK	OK	OK	4.92	9.92	

Additional Comments:

WELL INSPECTION SUMMARY

Project Name: Pfohl Brothers Landfill

Project Number: 11172700.00004

Inspection Crew Members: M. Kandefer, B. Fabian

Supervisor: J. Stachowski

Date(s) of Inspection: May 21, 2007

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	6.41	8.22	
GW-34S	OK	OK	OK	OK	3.65	10.01	
GW-35S	OK	OK	OK	OK	4.64	7.45	

Additional Comments:
