Pelham Bay Landfill
Maintenance, Repair and Monitoring Program
Annual Report
NYSDEC ID Number: 203001
Bronx County
New York City Department of Environmental Protection

March 2006 through February 2007

Prepared by:
Severn Trent Environmental Services
100 Morris Ave
Glen Cove, New York 11542
September 2007
Revised January 2008

SEVERN
TRENT
SERVICES

ANNUAL REPORT SUBMITTAL

Name of Facility: **Pelham Bay Landfill**
301 Shore Rd
Bronx, NY 10465

Owner: **New York City Department of Environmental Protection**
Bureau of Wastewater Treatment
96-05 Horace Harding Expressway, 2nd floor
Corona, NY 11368

Facility Operator: **Severn Trent Environmental Services**
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Management Approval:

The data contained in this annual report has been reviewed by the undersigned for content and accuracy.

Signature: Thomas Varley

Name: Thomas Varley

Title: Regional General Manager
Severn Trent Environmental Services

Professional Engineer Review:

I certify that I am familiar with the systems associated with the Pelham Bay Landfill and I have reviewed this annual report for content and accuracy. Based on the available data and information presented to me, I am in agreement with the contents of this report.

Barbara L. Stanton, P.E.
Name

Barbara L Stanton P.E.
Signature

Date: 11/25/08 Registration No: 071093 State: New York

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I. INTRODUCTION

The Pelham Bay Landfill is an inactive 81-acre municipal waste landfill located in the Bronx, New York (see figure 1). The site is bordered by the Hutchinson River to the north and east, the Eastchester Bay to the east and south, the Pelham Bay Park to the southwest, and Bruckner Boulevard Extension to the northwest. The landfill has an elevation of 131 feet with steep slopes that rise to a nearly flat top. According to records, typical wastes received at the site included: residential wastes, rubbish, street dirt, construction waste and demolition debris. The facility is currently operated and maintained by Severn Trent Environmental Services ("STES"). STES is required to perform routine inspections of the leachate and gas collection systems, inspection of the stormwater system and landfill cover, periodically sample and test groundwater, leachate, stormwater and gas condensate from various locations within the landfill. This annual report summarizes the site activities and the results from the monitoring performed during the period of March 2006 through February 2007.

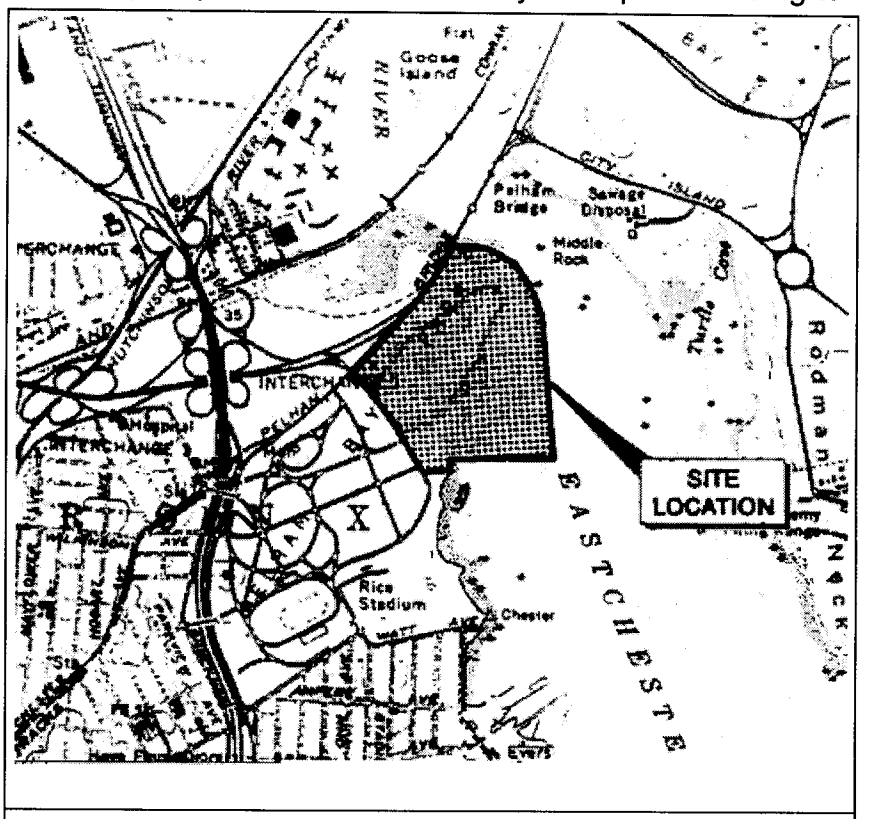


Figure 1: Site Location Map, Pelham Bay Landfill (adopted from the April 1993 Remedial Investigation Report written by Woodward-Clyde Consultants, Inc.).

II. SUMMARY OF MAJOR SYSTEMS

Provided below is an overview of the major system components and the repair actions and sampling activities performed during the period of March 2006 through February 2007.

a. Groundwater/Leachate Collection System

Description

The leachate collection and disposal system was designed for the removal of leachate from the landfill in order to protect the groundwater from contamination and limit discharges into the surrounding environment. Leachate is collected by a combination of a down gradient collector drain, collection manholes and collection sumps, curtain drain, lift stations, and storage tanks. Collected leachate stored in the holding tanks is drained to pump station D-1 which pumps through a force main to the Hunt's Point Water Pollution Control Plant (WPCP). The pumps in station D-1 are controlled by level float switches. Total flow is calculated based on recorded flow totalizer readings from the force main flow meter.

During heavy rains which may result in a combined sewer overflow (CSO) event, the leachate can be stored in the on-site storage tanks. There are five, twenty thousand gallon storage tanks which may be used for this purpose. The storage tanks are equipped with a truck filling station to allow for removal of leachate by tanker truck should the need arise.

Performance

During the reporting period covered by this Annual Report the groundwater/leachate collection system performed to the design intent. During this time period, the leachate collected by the various pump and lift stations and collection trenches was successfully transferred to the on-site storage tanks and pumped to the Hunts Point WPCP via pump station D-1.

During CSO events STES observed the proper operation of the automatic valve and associated controls. During CSO events leachate was stored in the on-site storage tanks. When CSO conditions subsided the automatic valve opened and stored leachate was transferred to D-1 and pumped to the Hunts Point WPCP.

The percent run time of the pumps in D-1 are provided in each Monthly Report. However, these percentages are not indicative of the percent operation of the system. The collection system consists of both gravity and pumped wet wells and trenches. Pump operation is controlled by pre-set float level switches in the

wet wells that activate the pumps to turn on and off. For this annual reporting period the groundwater/leachate system operated continuously.

STES performs routine inspections of the leachate collections system. There are contract allowance items to address repairs if the need arises.

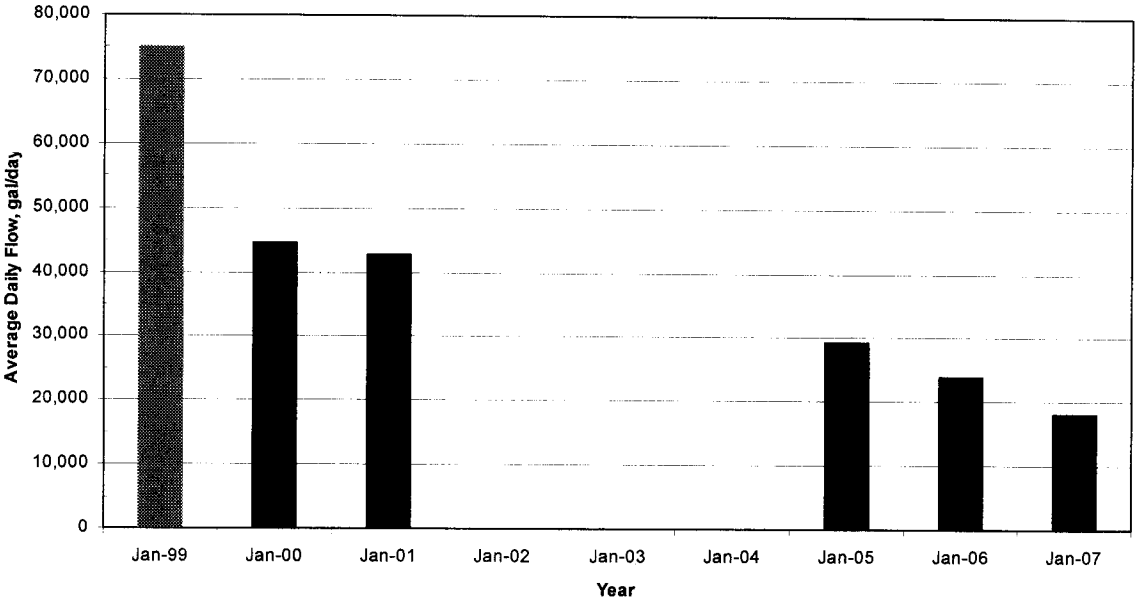
Table 1 provides a summary of the total estimated leachate pumped, monthly average daily flows, and monthly daily average minimum and maximum flows from station D-1 to the force main for the 12 month period of March 2006 through February 2007.

Table1. Annual Groundwater/Leachate Flows

Date	Gallons Pumped	Gallons Trucked	Total Gallons Generated	Average Daily Gallons	Average Daily Minimum	Average Daily Maximum
Mar-06	815,100	0	815,100	27,170	12,400	106,900
Apr-06	1,100,500	0	1,100,500	36,683	36,683	36,683
May-06	650,316	0	650,316	21,677	11,500	37,200
Jun-06	833,633	0	833,633	27,788	1,933	73,600
Jul-06	313,367	0	313,367	10,109	0	41,200
Aug-06	311,800	0	311,800	10,058	2,300	32,833
Sep-06	403,433	0	403,433	13,448	767	26,300
Oct-06	295,560	0	295,560	9,534	767	22,900
Nov-06	601,726	0	601,726	20,058	0	91,000
Dec-06	516,017	0	516,017	18,429	0	58,067
Jan-07	718,268	0	718,268	23,170	0	116,800
Feb-07	311,124	0	311,124	11,112	0	19,200
Total Cumulative YTD Flow			**6,870,844**			

Leachate flows from the landfill have decreased since the landfill was capped. Figure 2, Yearly Daily Average Leachate Flow, shows the daily leachate quantity diminishing as the landfill ages.

Figure 2
Yearly Average Daily Leachate Flow
Pelham Bay Landfill, Bronx, New York



Notes:
1. Flows are 12-month average values from June 1st to May 31st
2. There is no flow data during 2002 and 2003
3. The 1999 data represent the estimated leachate prior to the landfill closure

This is further evidence the landfill cap and stormwater management system is effectively managing water runoff from the site and minimizing leachate generation.

b. Landfill Gas System

Description

Landfill gas generated within the landfill is collected through twenty two (22) gas extraction wells, a gas venting layer at the surface of the landfill and a perimeter gas collection pipe around the base of the landfill. Extracted gas is conveyed via polyethylene piping to blowers and an enclosed flare system.

The gas flare system consists of two blowers and a burner management system. The burner management system includes a flame safeguard package, which monitors key parameters and shuts the unit down if an unsafe condition occurs. The key shut down interlocks are: high and low flare temperature, flame failure and low purge air flow (during purge cycle). The start-up sequence is; stack

purge, pilot ignition, initiate waste gas flow, and louver adjustment to achieve set point operating temperature. The standard operating procedure for the system is in the automatic mode. In this mode the initial start-up sequence will automatically make three attempts to start the system before shutting down. However, once the system has shutdown, all alarm conditions must be manually cleared prior to initiating the start-up sequence.

Performance

The landfill gas flare is designed to run continuously and has automatic safety shutdowns. During this reporting period the flare continued to operate as designed with periodic shutdowns. Gas concentrations at the flare inlet are just above the minimum methane concentrations to sustain continuous combustion. The methane concentration of the landfill gas has been decreasing over time as expected based on the age of the landfill. STES has adjusted valve settings on the gas extraction wells to minimize well overdraw. Several wells with high oxygen concentrations have been closed and will be returned to service if/when methane gas readings improve.

The safety shutdowns associated with the landfill gas flare are functional. Due to the low methane concentrations the manual and automatic dampers are closed in order to maintain the 1650 degrees F design set point. STES has experienced difficulty with re-starting the flare after a shutdown, however, once re-started, the system continues to run. STES suspects this is due to the low methane concentration and that this trend will continue.

The gas flow meter was taken out for servicing at the end of December and reinstalled in February. Due to problems in recording the totalizer readings, total gas flow during April 2006, January & February 2007 was estimated. The flow calculation estimates were based on extraction blower run time at the average flow rate of 1100 CFM. The flare blower was running at approximately 1100 CFM prior to the meter problem.

The total estimated Landfill Gas Flow for the 12 month period of March 2006 through February 2007 is provided in Table 2.

Table 2: Pelham Bay Landfill Total Landfill Gas Flow

Date	Daily Average (CFM)	Daily Average Minimum (CFM)	Daily Average Maximum (CFM)	Total Gas Flow (CFM)
March-06	1,368,362	0	2,999,000	39,682,500
April-06	1,218,967	1,218,967	1,218,967	36,569,000
May-06	1,235,433	8,000	1,946,750	37,063,000
June-06	1,398,741	473,000	2,369,000	37,766,000
July-06	1,476,710	502,333	2,425,000	45,778,000
August-06	1,604,321	1,061,000	2,246,000	44,921,000
September-06	1,156,189	371,000	1,886,333	34,685,667
October-06	937,149	89,667	2,912,000	27,177,333
November-06	1,469,933	588,000	2,356,333	44,098,000
December-06	1,214,389	81,000	2,090,000	21,859,000
January-07	755,240	755,240	755,240	20,391,470
February-07	627,695	627,695	627,695	15,692,380
Total Estimated Cumulative Gas Flow				**405,683,350**

Total gas flow for April 2006 is based on the difference from the first reading in May 2006 and the last reading in March 2006. The gas flare flow totalizer was removed from service December 21, 2006 and returned to service February 19, 2007. Flow readings for this period were estimated from the time clock readings and an average flow rate of 1100 cfm.

c. Stormwater Management System

Stormwater runoff from the landfill surface is diverted through a series of swales, baffled outlets and drainage pipes and directed to one of three sedimentation ponds located around the landfill site. The ponds are connected in series, and are designed so that gravity flow empties one pond into the next via underground pipes. Effluent from the third sedimentation pond flows by gravity to an outfall located on the northeast side of the landfill. STES performs routine inspections of the stormwater management system. There are contract allowance items to address maintenance issues if required. During this reporting period, the stormwater management system functioned as designed.

d. Landfill Cover & Auxiliary Systems

The Pelham Bay Landfill has well established cover vegetation over the landfill cap. STES performs a routine monthly inspection of the cover system for evidence of erosion, settlement or other signs of compromise to the cover. The inspection consists of visual observations of the following: side slopes, vegetation, underlying geosynthetic layer and soil components, and vandalism. Side slopes are observed for deficiencies such as surface cracks, settlement, erosion, sink holes, ponding or any other observation that could lead to unstable side slopes. The cover system is observed for any signs of sparse, stressed or undesirable vegetation and damage to the underlying geosynthetic layer.

The vegetation on the Pelham Bay landfill cover has been allowed to grow undisturbed for many years. As a result, the vegetation can reach over several feet high in some areas especially during the growing season. A thorough inspection of the landfill cover system is hampered by the dense vegetation. While the routine cover inspections will uncover major problems with the cover system, a more thorough inspection can be performed after the landfill is mowed.

During this monitoring period a program was implemented to mow only portions of the landfill each year. This enables the wildlife on the site to relocate from the mowed area to other areas of the landfill and allows a more detailed inspection of the newly mowed section of the landfill. The northeast section of the landfill was mowed this year. An inspection of that section did not uncover any deficiencies.

During this monitoring period several areas of the landfill were treated with herbicide, under the direction and supervision of the NYCDEP, in an attempt to prohibit the growth of crown vetch and other undesirable plant species.

The landfill roadways consist of an access road around the base perimeter of the landfill, leading to a road that continues to wind around the landfill ending at the top. The access roads have limited traffic, primarily STES pickup trucks and security personnel cars. The roads have developed ruts in various sections. STES personnel periodically fill the ruts and holes with crushed stone. Posts with reflectors are located along the curves in the roadways. During this reporting period the bent posts were straightened to vertical.

Security fences are located around the perimeter of the landfill, the MCC panel area, storage tank farm, and the gas extraction wells. All security fences are in good condition with the exception of the perimeter fence. Unauthorized personnel routinely cut access holes through the fence. Evidence shows that this is done to gain fishing access to the eastern bulkhead on Eastchester Bay. This is an ongoing issue and repairs to the fence are only short term. On several occasions the police department has issued summons to deter the this activity.

III. ENVIRONMENTAL MONITORING

a. Landfill Gas Monitoring

Severn Trent performed the monthly gas extraction well monitoring as required by the Contract. The wells were monitored for percent methane, oxygen and carbon dioxide. The monitoring was performed using a Landtec GEM-500 landfill gas meter. During this reporting period, landfill gas characteristics have sporadically fluctuated. Gas concentrations at the flare inlet are just above the minimum methane concentrations to sustain continuous combustion. The methane concentration of the landfill gas has been decreasing over time as expected based on the age of the landfill. Table 3 includes the results from the monthly well head gas readings.

The gas extraction wells are vertical wells with a flexible hose connecting the well to the gas header. Periodically the flexible hose will deteriorate and will require replacement. These repairs are performed by STES personnel on an as needed basis. On those wells with high oxygen readings and no break in hose or piping STES personnel made adjustments to the well valves to reduce the extraction rate. For wells where high oxygen concentrations persisted, the valves were closed and headspace monitoring was continued. These wells will be returned to service if/when methane gas readings improve. There have been times when methane concentrations increase in wells. This is most likely due to the monthly gas well monitoring being performed after the blower has tripped and methane concentrations in those wells rebounded.

Semi-annual monitoring of ten landfill surface spots and four gas monitoring wells was performed by STES personnel during this reporting period. Table 4 summarizes the results from the gas monitoring wells and landfill surface gas monitoring. The methane concentration in all locations was recorded as non-detect which indicates the landfill gas extraction system is working as expected with no evidence of migration offsite.

b. Groundwater Monitoring

There are 15 groundwater monitoring wells located in the landfill, four monitoring wells located off-site and six piezometers. Eleven of the groundwater monitoring wells are sampled semi-annually and analyzed for various parameters designated as Schedule A, as summarized on Table 5A. Schedule A analysis includes Volatile Organics, Semi Volatile Organics, Pesticides, and Inorganic parameters. Groundwater monitoring well sampling was performed in May and November.

The results from the groundwater monitoring are attached in Tables 5B. A site map of the monitoring well locations is provided in Figure 2. Tables 5B provide a comparison of the analytical results with the NYSDEC Ambient Water Quality Standards and Guidance values. Concentrations detected over the standards are in bold and shaded.

Beginning in 2006, the NYCDEP contracted with ARCADIS Engineering to provide oversight and consulting services for the Pelham Bay Landfill. After their review of the site conditions and historical data it was determined that the effects of tidal influence were not included in the groundwater sampling protocol outlined in the OM&M manual, and should be modified to provide more consistent results. The revised procedure for groundwater sampling addresses the tidal influence on the wells. Therefore, groundwater well sampling will coincide with low or outgoing tide. The revised procedure was implemented for the monitoring performed by STES during this reporting period.

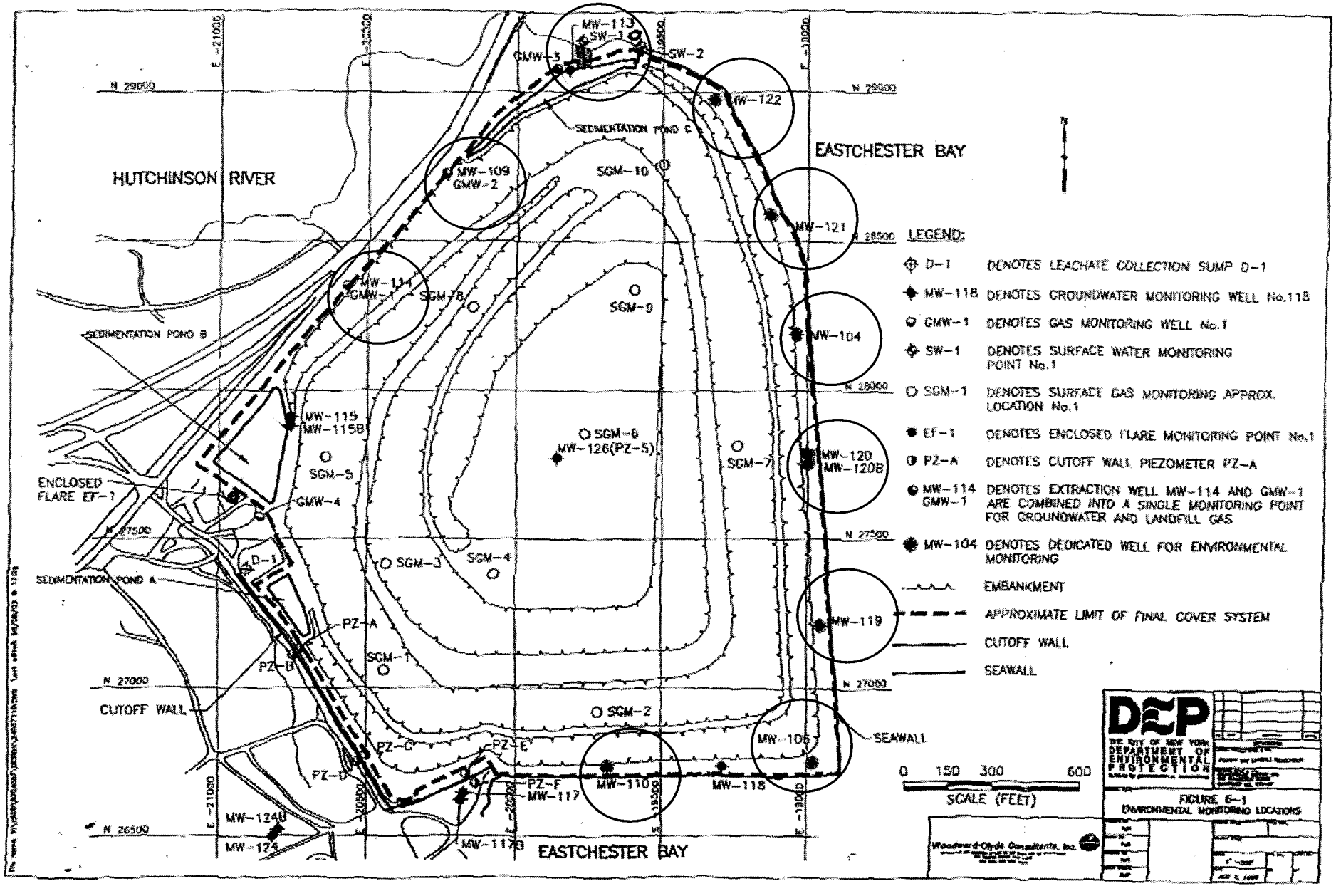
As the historical groundwater data from previous sampling events was collected without regard to tidal fluctuations the evaluation of trends in groundwater concentrations is inconclusive. A review of the analytical results for the May 2006 and November 2006 sampling events show only a few parameters detected over the NYSDEC Ambient Water Quality standards. During the 2006 sampling events, only one well, MW-122 had VOC parameters detected above the ambient water quality standards for Benzene and Chlorobenzene.

c. Leachate Monitoring

The leachate capture system is designed to work by Hydraulic gradient and includes a slurry wall on the southwest corner of the landfill. The slurry wall is designed to intercept landfill leachate flow and prevent it from migrating offsite. A collection trench located inside the slurry wall diverts any captured leachate to the on-site D-1 Pump Station which pumps to the NYCDEP Hunts Point WPCP. A similar trench on the offsite park side of the slurry wall collects any groundwater flow and prevents it from entering the site. The groundwater collection trench is diverted to a stormwater outfall

Groundwater elevations are used to monitor this system. There are a total of 15 on-site groundwater wells, four offsite monitoring wells located in the adjacent Pelham Bay Park, and six piezometers, which are designated for water elevation measurements. Historically, the groundwater elevations were collected without regard to tidal influence. However, in 2006 the procedure was modified to reflect tidal influences. The May 2006 groundwater elevation measurements obtained by STES personnel were recorded at low tide and were done synoptically. In December 2006, synoptic high tide groundwater elevation measurements were

Figure 3: Pelham Bay Landfill Groundwater Monitoring Well location



obtained on the 5th and synoptic low tide groundwater elevation measurements were obtained by on the 13th. Table 5C provides a summary of the groundwater elevation measurements. A review of the data during this monitoring period indicates that the collection trench is working as designed.

During this monitoring period groundwater elevation measurements were not collected from seven of the designated locations. Three of the off site wells MW-117B, MW-124 and MW-124B can not be located. The remaining four wells, MW-106, MW-121, MW-126 and PZ-D have obstructions which prevent data collection.

Leachate quality is monitored semi-annually for Schedule A and Schedule B parameters. Samples are obtained from the D-1 Pump Station wet well. The Schedule B analysis includes conventional parameters and selected metals. The results from the leachate monitoring are attached in Tables 6A, 6B, 7A and 7B.

d. Gas Condensate Monitoring

Gas condensate is generated at the landfill gas flare during the gas extraction process. The condensate flows by gravity via an underground pipe from the landfill gas flare to the D-2 manhole. The condensate combines with the D-2 flow and continues by gravity to the D-1 Pump Station where it is pumped to the Hunts Point WPCP.

Gas condensate sampling is not a requirement as stated in the Operations and Maintenance Manual, Section 5, Subsection 5.4.2. Gas condensate samples are obtained at the pipe connection in the D-2 manhole. Historically very small volumes of condensate have been generated which has hindered sample collection.

During this monitoring period two gas condensate samples were collected analyzed for TCLP. The results for the gas condensate monitoring are attached in Tables 8A and 8B.

e. Stormwater Monitoring

Stormwater discharge from the Sedimentation Pond is sampled semi-annually and analyzed for Schedule A parameters. The results from the Stormwater monitoring are attached in Tables 9A and 9B.

IV. MAINTENANCE AND REPAIRS

Maintenance activities during this monitoring period consisted of routine preventive maintenance and non-routine activities. Non-routine work includes tasks requested by the NYCDEP Project Manager and specific items identified in the contract specifications.

Preventative Maintenance

The routine preventive maintenance was performed by STES in conjunction with the scheduled inspections and as outlined in the O&M Manual. The preventative maintenance included but was not limited to site maintenance such as maintaining access to equipment, litter removal and snow removal. Preventative maintenance on the gas flare system and leachate pumping systems including maintaining in-service and spare pumps in working order, exercising all valves and maintaining the piping systems.

a. Non-Routine Tasks

Tree Removal and Landfill Mowing

During the months of March through May 2006 landfill cover tree removal was performed by STES personnel. All trees were stockpiled along the IRM road and then chipped and placed in roll off dumpsters and removed from the site.

A total of 38 acres from the bottom to the top in the northeast corner of the landfill was mowed. DEP personnel were on-site during the tree removal and mowing operations.

Road Repairs

STES personnel performed road repairs in June 2006. This consisted of filling ruts with crushed stone. The road reflector posts were also straightened during this time period.

Survey of Groundwater Monitoring wells

During June 2006 a survey of the groundwater monitoring wells was performed. All the wells within the landfill property were surveyed. Surveyors were unable to locate wells MW117B, MW124 & MW124 B which, the OM&M manual shows as being located in adjacent Pelham Park.

Misc. Maintenance Repairs

STES personnel reported a missing aluminum grating by lift station# 2. A report was made to on-site security personnel. In addition a grating was missing by the stormwater discharge from Pond C. STES replaced both grates.

Herbicide Spraying

Allied Biologicals was on site in August 2006 to perform herbicide application to various sections of the landfill to prohibit the growth of mugwort and crown vetch plant species. The NYCDEP delineated the specific area for targeted spraying and provided oversight during this activity.

Landfill Gas System Repairs

The flexible hoses on several of the gas extraction wells were showing signs of deteriorate. They were replaced by STES personnel in September 2006. In October 2006, STES replaced faulty thermocouples on the landfill gas flare along with inlet and outlet butterfly valves on the extraction blowers.

Misc. Pump and Lift Station Repairs

The semi-annual calibration of the D-1 leachate discharge flow meter was performed in May and November 2006. STES personnel replaced Pump # 2 in Lift station # 1 and pump #2 in Lift station #2.

Landfill Gas Flow Meter Totalizer

In mid December 2006 the landfill gas flare flow totalizer was not operating properly. STES personnel contracted the manufacturer service rep who removed the meter from the site to bench test and repair. The meter was reinstalled and calibrated in February 2007.

b. Other Events

Presentation & Tour to Community Board #10
The NYCDEP gave a presentation and tour to the local Community Board #10 on June 23, 2006. Representatives from the Bronx Borough President's office, NYSDEC and NYC Parks Department were also present. The presentation of the history and current status of the site was given by Arcadis Engineering, followed by a tour of the landfill.

Health & Safety Audit

NYCDEP compliance personnel and outside auditors from AREVA performed a safety inspection of the Pelham Bay Landfill on November 20, 2006. The auditors reviewed the on-site safety plans and records and generated a list of action items. STES quickly addressed all action items identified from the audit. The NYCDEP Compliance Section approved and accepted all work.

c. Emergency Events

There were no emergency repairs required during this reporting period. All maintenance activities were scheduled during normal routine site operations.

V. SUMMARY

STES reviewed data collected from this reporting period and compared with past data and trends to determine the effectiveness of the remedial measures instituted as part of the closure plan for the Pelham Bay Landfill. Based upon our review, the evidence leads to the following conclusions:

- Leachate quantity has not increased lending evidence that the landfill cap and stormwater management system is effective in managing rainfall runoff and minimizing leachate generation.
- Groundwater level measurements on either side of the slurry wall demonstrate a hydraulic gradient towards the landfill suggesting leachate intercepted by the collection trench is contained within the landfill. Since leachate quantity has not increased, we believe the slurry wall is also effective at diverting groundwater from the adjacent Pelham Park from entering the landfill.
- Methane concentration of the landfill gas remains low as expected with the age of the landfill. Based on methane readings from the landfill gas monitoring wells and the surface gas readings there is no evidence of gas migration off-site.
- Groundwater quality data collected from the monitoring wells do not show any significant increases in concentrations. The highest concentrations are with metals and parameters associated with saline water.

Based upon our review, STES believes no changes to the remedial measures are necessary at this time.

Table 3

Gas Extraction Well Readings

Table 3
Gas Extraction Wells Summary
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Date	3/14/2006	4/28/2006	05/30/06	06/27/06	07/24/06	08/14/06	09/27/06	10/25/06	11/17/06	12/28/06	01/07/07	02/07/07
Flare Inlet												
CH_4 %	28.7%	19.6%	18.3%	29.6%	20.3%	18.6%	12.3%	29.1%	22.6%	22.9%	30.6%	32.8%
CO_2 %	24.1%	21.4%	21.9%	24.5%	21.3%	20.7%	0.0%	23.2%	22.1%	23.3%	24.4%	24.1%
O_2 %	1.3%	1.5%	1.6%	10.0%	1.8%	2.8%	12.8%	1.2%	2.0%	1.4%	1.4%	1.4%
Well Head No. 1												
CH_4 %	8.8%	0.1%	1.2%	5.2%	0.5%	1.2%	12.3%	16.8%	5.8%	1.2%	2.6%	11.4%
CO_2 %	13.1%	0.8%	5.2%	15.4%	0.3%	2.1%	18.2%	17.4%	18.1%	2.4%	7.8%	11.9%
O_2 %	6.1%	19.7%	14.4%	1.3%	19.1%	16.9%	0.0%	1.1%	1.1%	18.3%	12.3%	7.4%
Well Head No. 2												
CH_4 %	9.1%	3.9%	3.1%	46.7%	6.7%	6.3%	7.2%	11.7%	5.1%	5.4%	16.8%	12.3%
CO_2 %	17.8%	13.1%	13.3%	32.4%	17.4%	17.1%	12.2%	15.8%	17.0%	18.9%	21.7%	18.4%
O_2 %	1.2%	6.3%	5.3%	0.0%	0.7%	1.2%	5.0%	0.7%	1.2%	1.2%	0.4%	0.0%
Well Head No. 3												
CH_4 %	6.2%	1.3%	1.9%	47.1%	4.5%	4.2%	52.8%	7.7%	3.5%	3.4%	36.4%	10.7%
CO_2 %	15.6%	6.2%	11.5%	32.3%	16.1%	15.1%	37.9%	15.6%	15.7%	16.8%	27.2%	20.9%
O_2 %	4.1%	14.2%	7.8%	10.0%	3.1%	4.2%	0.1%	2.2%	3.3%	4.4%	0.5%	0.1%
Well Head No. 4												
CH_4 %	10.4%	43.1%	50.5%	56.9%	15.1%	0.2%	59.1%	56.1%	54.0%	61.6%	7.9%	63.2%
CO_2 %	14.1%	25.4%	31.0%	33.7%	12.2%	0.0%	32.5%	30.9%	31.0%	34.1%	4.4%	34.6%
O_2 %	3.1%	5.2%	1.7%	0.0%	5.7%	20.1%	0.0%	1.8%	2.0%	2.0%	18.8%	0.0%
Well Head No. 5												
CH_4 %	14.4%	27.3%	33.9%	54.1%	1.2%	0.2%	53.4%	45.8%	39.3%	0.8%	47.0%	61.8%
CO_2 %	20.8%	23.2%	30.6%	41.5%	6.1%	0.0%	37.7%	33.7%	30.9%	0.1%	36.6%	38.2%
O_2 %	1.8%	7.6%	3.6%	0.0%	4.4%	20.1%	0.0%	3.0%	3.2%	20.7%	0.8%	0.0%
Well Head No. 6												
CH_4 %	23.5%	17.1%	13.3%	49.7%	3.1%	0.2%	51.8%	25.5%	22.8%	21.6%	29.6%	29.5%
CO_2 %	16.6%	15.3%	13.6%	33.8%	17.8%	0.0%	38.0%	17.7%	17.4%	18.6%	24.0%	21.5%
O_2 %	2.4%	1.6%	3.4%	0.0%	2.4%	20.2%	0.0%	1.5%	1.7%	2.2%	3.7%	1.3%

Table 3
Gas Extraction Wells Summary
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Date	3/14/2006	4/28/2006	05/30/06	06/27/06	07/24/06	08/14/06	09/27/06	10/25/06	11/17/06	12/28/06	01/07/07	02/07/07
Well Head No. 7												
CH_4 %	30.4%	0.0%	5.8%	44.5%	0.0%	0.2%	47.3%	2.7%	3.7%	11.6%	0.3%	30.5%
CO_2 %	26.2%	0.0%	3.8%	30.4%	1.1%	0.0%	34.2%	0.0%	0.0%	7.2%	0.0%	22.8%
O_2 %	4.1%	20.6%	17.7%	4.5%	19.3%	20.0%	2.2%	19.7%	19.8%	18.2%	21.7%	10.9%
Well Head No. 8												
CH_4 %	26.1%	18.1%	26.1%	48.3%	17.2%	0.1%	51.9%	43.4%	39.1%	0.8%	29.3%	48.7%
CO_2 %	24.3%	12.8%	18.4%	29.4%	10.4%	0.0%	29.6%	25.6%	23.9%	0.1%	24.7%	28.5%
O_2 %	3.0%	11.0%	6.7%	0.0%	2.2%	20.1%	0.0%	2.7%	2.9%	20.7%	3.8%	0.6%
Well Head No. 9												
CH_4 %	22.3%	30.1%	18.2%	41.7%	15.4%	0.2%	42.2%	0.0%	42.5%	36.5%	30.8%	41.7%
CO_2 %	21.9%	21.1%	13.7%	27.1%	9.4%	0.0%	26.0%	0.0%	23.4%	24.6%	26.6%	27.1%
O_2 %	4.4%	4.5%	9.3%	0.0%	3.0%	19.8%	0.0%	19.1%	2.1%	2.9%	2.1%	0.7%
Well Head No. 10												
CH_4 %	10.6%	5.9%	7.2%	48.4%	1.6%	0.0%	53.4%	11.9%	8.0%	8.3%	31.7%	14.4%
CO_2 %	14.5%	11.3%	16.7%	32.7%	7.4%	0.0%	37.7%	15.5%	14.9%	17.4%	23.7%	19.3%
O_2 %	5.5%	8.0%	2.2%	0.0%	3.2%	19.6%	0.0%	4.0%	4.7%	3.7%	2.2%	1.2%
Well Head No. 11												
CH_4 %	22.1%	0.0%	0.0%	6.7%	0.0%	0.3%	8.5%	0.0%	0.0%	0.7%	14.4%	0.6%
CO_2 %	21.6%	0.4%	0.1%	14.8%	0.3%	0.1%	16.5%	0.0%	0.0%	0.1%	17.6%	0.0%
O_2 %	2.4%	20.0%	19.1%	0.0%	19.2%	19.7%	0.0%	20.3%	19.3%	20.6%	6.1%	20.9%
Well Head No. 12												
CH_4 %	18.3%	11.5%	8.6%	24.1%	4.1%	0.0%	45.1%	23.4%	16.8%	19.1%	25.3%	27.4%
CO_2 %	19.4%	13.5%	10.2%	21.6%	8.0%	0.0%	35.6%	18.5%	18.0%	19.2%	24.1%	20.8%
O_2 %	2.2%	7.0%	10.1%	0.0%	3.8%	19.8%	0.0%	3.2%	3.3%	3.2%	4.3%	1.2%
Well Head No. 13												
CH_4 %	14.1%	10.8%	9.6%	21.3%	2.5%	0.2%	46.2%	22.7%	15.1%	16.8%	25.6%	26.2%
CO_2 %	20.3%	13.3%	11.8%	21.6%	8.2%	0.0%	35.0%	17.7%	17.6%	19.0%	24.3%	20.5%
O_2 %	1.9%	7.6%	8.6%	0.0%	4.9%	19.6%	0.0%	2.4%	3.1%	4.0%	4.0%	0.9%

Table 3
Gas Extraction Wells Summary
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Date	3/14/2006	4/28/2006	05/30/06	06/27/06	07/24/06	08/14/06	09/27/06	10/25/06	11/17/06	12/28/06	01/07/07	02/07/07
Well Head No. 14												
CH_4 %	10.7%	3.9%	5.0%	31.4%	0.4%	5.9%	50.1%	14.1%	6.3%	8.1%	14.6%	16.1%
CO_2 %	13.6%	9.6%	12.9%	26.1%	9.0%	14.1%	36.7%	13.9%	14.9%	15.4%	18.7%	14.9%
O_2 %	2.9%	7.8%	4.3%	0.0%	2.3%	3.9%	0.1%	3.8%	4.4%	4.2%	0.7%	2.2%
Well Head No. 15												
CH_4 %	32.9%	34.8%	39.7%	54.6%	23.6%	0.0%	56.2%	50.5%	49.2%	51.7%	53.8%	60.8%
CO_2 %	25.6%	27.1%	32.3%	42.0%	14.3%	0.0%	43.1%	38.1%	36.9%	40.8%	42.7%	39.1%
O_2 %	8.6%	4.2%	4.2%	0.0%	2.3%	20.1%	0.0%	2.0%	1.9%	2.5%	0.7%	0.2%
Well Head No. 16												
CH_4 %	0.1%	0.0%	0.0%	30.2%	0.0%	0.0%	54.6%	0.1%	0.0%	0.7%	0.4%	0.7%
CO_2 %	0.1%	0.0%	0.0%	24.5%	0.2%	0.1%	40.1%	0.0%	0.0%	0.0%	0.1%	0.1%
O_2 %	20.1%	20.0%	19.6%	0.0%	18.5%	19.8%	0.0%	19.1%	19.8%	20.9%	20.1%	19.8%
Well Head No. 17												
CH_4 %	34.6%	39.8%	37.5%	48.9%	6.2%	12.8%	51.6%	44.7%	41.6%	40.1%	48.3%	51.2%
CO_2 %	25.8%	31.6%	31.5%	37.1%	10.1%	9.9%	37.7%	32.3%	30.8%	33.2%	38.1%	38.2%
O_2 %	6.7%	5.6%	1.5%	0.0%	5.2%	14.3%	0.0%	2.0%	2.1%	2.2%	0.6%	0.4%
Well Head No. 18												
CH_4 %	24.6%	10.4%	8.1%	26.7%	5.0%	12.2%	52.8%	28.1%	12.4%	11.8%	26.5%	28.4%
CO_2 %	22.3%	17.8%	14.5%	25.7%	13.0%	18.3%	32.7%	20.6%	18.1%	19.9%	24.6%	22.3%
O_2 %	1.8%	2.3%	5.2%	0.0%	1.2%	1.7%	0.0%	1.3%	1.0%	1.2%	0.3%	0.0%
Well Head No. 19												
CH_4 %	15.7%	6.3%	6.8%	27.5%	0.2%	9.0%	47.7%	21.4%	9.8%	8.6%	38.4%	20.4%
CO_2 %	19.3%	12.2%	16.3%	25.8%	0.8%	16.7%	35.1%	18.2%	17.8%	17.7%	28.5%	19.3%
O_2 %	0.8%	7.3%	2.3%	0.0%	18.5%	2.3%	0.0%	1.3%	1.2%	2.7%	0.4%	0.1%
Well Head No. 20												
CH_4 %	24.3%	18.8%	17.1%	27.9%	7.2%	0.6%	37.6%	32.0%	25.1%	24.4%	27.2%	33.5%
CO_2 %	19.7%	18.5%	19.1%	25.8%	10.6%	0.2%	29.7%	24.4%	22.8%	23.8%	24.7%	26.6%
O_2 %	4.7%	4.2%	3.5%	0.6%	1.7%	19.8%	0.0%	1.4%	1.7%	1.7%	1.5%	0.1%

Table 3
Gas Extraction Wells Summary
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Date	3/14/2006	4/28/2006	05/30/06	06/27/06	07/24/06	08/14/06	09/27/06	10/25/06	11/17/06	12/28/06	01/07/07	02/07/07
Well Head No. 21												
CH_4 %	22.6%	3.2%	10.7%	28.1%	15.7%	14.6%	38.5%	26.8%	14.1%	14.5%	27.8%	30.2%
CO_2 %	20.7%	4.3%	17.0%	26.3%	19.5%	19.1%	30.3%	21.2%	18.9%	20.3%	24.6%	22.8%
O_2 %	2.5%	16.3%	4.2%	0.0%	2.1%	2.8%	0.0%	0.2%	1.0%	2.1%	1.4%	0.4%
Well Head No. 22												
CH_4 %	20.1%	12.1%	2.8%	12.4%	0.2%	0.1%	22.3%	25.1%	15.1%	14.1%	7.6%	14.9%
CO_2 %	17.3%	16.6%	4.5%	14.8%	0.3%	0.1%	17.7%	17.8%	17.8%	19.4%	12.5%	9.2%
O_2 %	3.5%	2.5%	12.6%	2.8%	19.8%	19.9%	0.2%	1.2%	1.0%	1.7%	7.0%	11.4%

Table 4

Gas Monitoring and Surface Gas Readings

SEVERN TRENT
ENVIRONMENTAL SERVICES
100 MORRIS AVENUE
GLEN COVE, NY 11542

PELHAM BAY LANDFILL
GAS MONITORING WELL READINGS

Date: 7/19/06 **Sampler:** K. Bruce

Weather 80^0 F, Cloudy

Date	7/19/06
GMW-1	
CH4 %	0.0%
CO2 %	0.1%
O2 %	20.0%
LEL %	0.0%
GMW-2	
CH4 %	0.0%
CO2 %	0.0%
O2 %	20.2%
LEL %	0.0%
GMW-3	
CH4 %	0.0%
CO2 %	0.0%
O2 %	21.9%
LEL %	0.0%
GMW-4	
CH4 %	0.0%
CO2 %	0.0%
O2 %	20.9%
LEL %	0.0%

SEVERN TRENT
ENVIRONMENTAL SERVICES
100 MORRIS AVENUE
GLEN COVE, NY 11542

PELHAM BAY LANDFILL
SURFACE GAS READINGS

Date: 6/13/06 **Sampler:** T. Varley

Weather: 71^0 F, Cloudy

Location	Methane (ppm)
SGM-1	0.0
SGM-2	0.0
SGM-3	0.0
SGM-4	0.0
SGM-5	0.0
SGM-6	0.0
SGM-7	0.0
SGM-8	0.0
SGM-9	0.0
SGM10	0.0

Table 5A

Schedule A Parameters

Table 5A
Pelham Bay Landfill
Schedule A Parameters

	Acenaphthene	Aldrin
1,1 Dichloroethene	Acenaphthylene	b BHC
1,2 Dichloroethane	Anthracene	Chlordane
1,2 Dichloroethene	Benzo(a)anthracene	d BHC
1,2 Dichloropropane	Benzo(a)pyrene	Dieldrin
111 Trichloroethane	Benzo(b)fluoranthene	Endosulfan 1
112 Trichloroethane	Benzo(ghi)perylene	Endosulfan 2
1122Tetrachloroethane	Benzo(k)fluoranthene	Endosulfan Sulfate
2-Butanone	BenzylButylPhthalate	Endrin
2-Hexanone	Bis(2-chloroethoxy)methane	Endrin Aldehyde
4-Methyl-2-Pentanone	Bis(2-chloroethyl)ether	Endrin Ketone
Acetone	Bis(2-chloroisopropyl)ether	Heptachlor
Benzene	Bis(2-ethylhexyl)phthalate	Heptachlor Epoxide
Bromodichloromethane	Carbazole	Lindane
Bromoform	Chrysene	Methoxychlor
Bromomethane	Di-n-Butyl Phthalate	p,p-DDD
c-1,3Dichloropropene	Di-n-octyl Phthalate	p,p-DDE
Carbon disulfide	Dibenzo(a,h)anthracene	p,p-DDT
Carbon Tetrachloride	Dibenzofuran	Toxaphene
Chlorobenzene	Diethyl Phthalate	Aroclor 1016
Chlorodibromomethane	Dimethyl Phthalate	Aroclor 1221
Chloroethane	Fluoranthene	Aroclor 1232
Chloroform	Fluorene	Aroclor 1242
Chloromethane	Hexachlorobenzene	Aroclor 1248
Ethyl Benzene	Hexachlorobutadiene	Aroclor 1254
m + p Xylene	Hexachlorocyclopentadiene	Aroclor 1260
Methylene Chloride	Hexachloroethane	Aluminum as Al
o Xylene	Indeno(1,2,3-cd)pyrene	Antimony as Sb
Styrene	Isophorone	Arsenic as As
t-1,3Dichloropropene	N-Nitrosodi-n-propylamine	Barium as Ba
Tetrachloroethene	N-Nitrosodiphenylamine	Beryllium as Be
Toluene	Naphthalene(sv)	Cadmium as Cd
Trichloroethene	Nitrobenzene	Calcium as Ca
Vinyl Chloride	Phenanthrene	Chromium as Cr
Xylene	Pyrene	Cobalt as Co
1,2 Dichlorobenzene(sv)	2,4,5-Trichlorophenol	Copper as Cu
1,3 Dichlorobenzene(sv)	2,4,6-Trichlorophenol	Iron as Fe
1,4 Dichlorobenzene(sv)	2,4-Dichlorophenol	Lead as Pb
124-Trichlorobenzene (sv)	2,4-Dimethylphenol	Magnesium as Mg
2,4-Dinitrotoluene	2,4-Dinitrophenol	Manganese as Mn
2,6-Dinitrotoluene	2-Chlorophenol	Mercury as Hg
2-Chloronaphthalene	2-Methyl-4,6-dinitrophenol	Nickel as Ni
2-Methylnaphthalene	2-Methylphenol (o-cresol)	Potassium as K
2-Nitroaniline	2-Nitrophenol	Selenium as Se
3,3'-Dichlorobenzidine	4-Chloro-3-methylphenol	Silver as Ag
3-Nitroaniline	4-Methylphenol (p-cresol)	Sodium as Na
4-Bromophenyl phenyl ether	4-Nitrophenol	Thallium as Tl
4-Chloroaniline	Pentachlorophenol (ms)	Vanadium as V
4-Chlorophenyl phenyl ether	Phenol	Zinc as Zn
4-Nitroaniline	a BHC	Cyanide as CN

Tables 5B

Groundwater Monitoring Wells Analytical Results

Table 5B
Groundwater Monitoring Wells
Metals and Cyanide Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-104			MW-109			MW-110		
			Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06
Cyanide											
Cyanide, Total	200	ug/l	**10.8**	**11.6**	**40**	< 10 U	< 1 U	< 20	< 10 U	well dry no sample obtained	< 20
Metals											
Aluminum (Al)	100	ug/l	**873**	**594**	**860**	**304**	**5600**	**7200**	**1170**		**170**
Antimony (Sb)	3	ug/l	< 43.5 U	< 5.4 U	< 10	BJR#	< 5.4 U	< 5	BJR#		< 10
Arsenic (As)	25	ug/l	**6.55 BJ**	< 3.9 U	< 5	< 1.1 UW	< 3.9 U	< 5	< 1.1 U		< 50
Barium (Ba)	1000	ug/l	**983**	**281 N**	**370**	**167 B**	**132 N**	**190**	**538**		**82**
Beryllium (Be)	3	ug/l	< 0.6 U	< 0.54 UN	< 1	< 0.6 U	< 0.54 UN	< 1	< 0.6 U		< 1
Cadmium (Cd)	5	ug/l	< 4.1 U	< 1.1 U	< 5	< 4.6 U	< 1.1 U	< 5	< 4.6 U		< 5
Calcium (Ca)		ug/l	**122000**	**203000**	**300000**	**100000**	**96500**	**130000**	**180000**		**310000**
Chromium (Cr)	50	ug/l	**110**	**3 BN**	< 5	< 7.3 U	**21.4 N**	**24**	**25.3**		**130**
Cobalt (Co)		ug/l	BJR#	< 1.8 U	< 5	**78.7**	**11.1**	**11**	< 7.4 U		< 5
Copper (Cu)	200	ug/l	**50.5**	**11.6**	< 10	BJR#	**17.7**	**20**	**52.5**		**20**
Iron (Fe)	300	ug/l	**6110**	**2130 N**	**3100**	**656**	**9760 N**	**8500**	**9770**		**2000**
Lead (Pb)	25	ug/l	**52.1 S**	**7.7 B**	**19**	< 1.1 U	**11**	**10**	**68.3**		**18**
Magnesium (Mg)	35000	ug/l	**252000**	**633000**	**840000**	**43700**	**14600**	**20000**	**288000**		**850000**
Manganese (Mn)	300	ug/l	**111**	< 6.9 U	**20**	**5100**	**89.8**	**210**	**125**		**60**
Mercury (Hg)	.7	ug/l	< 0.2 U	< 0.07 U	< 0.3	< 0.2 U	< 0.07 U	< 0.2	< 0.2 U		< 0.2
Nickel (Ni)	100	ug/l	**25.9 BJ**	< 1.9 U	< 10	**483**	**49.6**	**50**	**18.3 B**		< 10
Potassium (K)		ug/l	**243000**	**346000**	**450000**	**5850**	**4210**	**11000**	**170000**		**580000**
Selenium (Se)	10	ug/l	**13.6 BN**	< 5 UN	< 4	< 11 U	< 5 UN	< 4	< 11 UW		< 4
Silver (Ag)	50	ug/l	BNWJR#	< 1.1 U	< 5	< 2.9 U	< 1.1 U	< 5	< 2.9 U		< 5
Sodium (Na)	20000	ug/l	**3050000**	**215000**	**6700000**	**116000**	**13000**	**22000**	**3150000**		**6500000**
Thallium (Tl)	.5	ug/l	< 2.2 UW	**10.6 B**	< 10	< 2.2 UW	< 10 U	< 5	< 2.2 UW		< 5
Vanadium (V)		ug/l	**244**	**7.2 N**	**9**	< 4 U	**15.3 N**	**16**	**46.2 E**		**7**
Zinc (Zn)	2000	ug/l	**45**	**23.2 B**	**50**	**34.8**	**37.4 B**	**40**	**99**		**10**

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
Metals and Cyanide Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-113			MW-114			MW-119		
			Jul-92	May-06	Nov-06	Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06
Cyanide											
Cyanide, Total	200	ug/l	**22.6**	< 1 U	< 20	< 10 U	< 1 U	< 20	< 10 U	< 1 U	< 20
Metals											
Aluminum (Al)	100	ug/l	**9510**	**832**	**200**	**2040**	**3420**	**7700**	**7110 N**	< 92 U	**50**
Antimony (Sb)	3	ug/l	< 43.5 U	< 5.4 U	< 5	< 43.5 U	< 5.4 U	< 5	< 43.5 U	< 5.4 U	< 10
Arsenic (As)	25	ug/l	**3.69 B**	**7 B**	< 5	**15.8 J**	< 3.9 U	< 5	< 11 U	< 3.9 U	< 50
Barium (Ba)	1000	ug/l	**392**	**110 N**	**120**	**163 B**	**70.2 N**	**110**	**313 EN**	**53.1 N**	**88**
Beryllium (Be)	3	ug/l	< 0.6 U	< 0.54 UN	< 1	< 0.6 U	< 0.54 UN	< 1	< 0.6 U	< 0.54 UN	< 1
Cadmium (Cd)	5	ug/l	< 4.6 U	< 1.1 U	< 5	< 4.6 U	< 1.1 U	< 5	< 4.6 UN	< 1.1 U	< 5
Calcium (Ca)		ug/l	**99900**	**99700**	**110000**	**53600**	**130000**	**130000**	**237000 E**	**228000**	**350000**
Chromium (Cr)	50	ug/l	**39.8**	**5.5 BN**	< 5	**36.4**	**10.4 N**	**24**	**21.5**	**2.2 BN**	< 5
Cobalt (Co)		ug/l	**23.2 B**	**10.3**	**8**	BJR#	**2.6 B**	**6**	**18.3 BN**	< 1.8 U	< 5
Copper (Cu)	200	ug/l	**43.8**	< 4.3 U	< 10	**7.2 B**	**21.4**	**40**	JR#	< 4.3 U	**60**
Iron (Fe)	300	ug/l	**18800**	**19100 N**	**12000**	**12100**	**4380 N**	**9600**	**17200 E**	**2120 N**	**2100**
Lead (Pb)	25	ug/l	**27.2 S**	**4.6 B**	< 5	**3.64 B**	**12**	**24**	**134**	< 3 U	< 5
Magnesium (Mg)	35000	ug/l	**45800**	**28400**	**30000**	**54500**	**18600**	**20000**	**803000**	**632000**	**880000**
Manganese (Mn)	300	ug/l	**3060**	**1940**	**2000**	**696**	**47.1**	**260**	**1230 E**	**404**	**500**
Mercury (Hg)	.7	ug/l	< 0.2 U	< 0.07 U	< 0.2	< 0.2 U	< 0.07 U	< 0.2	< 0.2 UN	< 0.07 U	< 0.2
Nickel (Ni)	100	ug/l	**182**	**56.3**	**50**	**67.4 J**	**15.6**	**30**	< 10.2 UJ	< 1.9 U	< 10
Potassium (K)		ug/l	**94400**	**47400**	**71000**	**243000**	**10000**	**15000**	**312000**	**340000**	**340000**
Selenium (Se)	10	ug/l	< 11 UW	< 5 UN	< 4	< 2.2 UNW	< 5 UN	< 4	< 22 UNW	< 5 UN	< 4
Silver (Ag)	50	ug/l	< 2.9 U	< 1.1 U	< 5	BNJR#	< 1.1 U	< 5	< 2.9 U	< 1.1 U	< 5
Sodium (Na)	20000	ug/l	**428000**	**109000**	**140000**	**709000**	**19300**	**16000**	**7500000**	**219000**	**2500000**
Thallium (Tl)	.5	ug/l	< 2.2 UW	< 10 U	< 5	< 2.2 U	< 10 U	< 5	< 2.2 UNWR	**10.1 B**	< 5
Vanadium (V)		ug/l	**23.6 B**	**4.9 BN**	< 5	**33.8 B**	**8.5 N**	**20**	**33.7 B**	**6.4 N**	< 5
Zinc (Zn)	2000	ug/l	**39.8**	**17.6 B**	**20**	**17.2 B**	**38.8 B**	**70**	**142 E**	**16.5 B**	**40**

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
Metals and Cyanide Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-120			MW-120B			MW-122		
			Aug-02	May-06	Nov-06	Jul-92	May-06	Nov-06	Aug-02	May-06	Nov-06
Cyanide											
Cyanide, Total	200	ug/l	< 10 U	< 1 U	< 20	< 10 U	< 1 U	< 20	< 10 U	**152**	< 20
Metals											
Aluminum (Al)	100	ug/l	**3150 N**	< 92 U	**40**	< 148 UN	< 92 U	**110**	**941 N**	< 460 U	**30**
Antimony (Sb)	3	ug/l	< 43.5 U	< 5.4 U	< 5	< 43.5 U	< 5.4 U	< 5	< 43.5 U	< 27 U	< 50
Arsenic (As)	25	ug/l	**8.14 B+**	**6 B**	< 100	**4.5 B**	< 3.9 U	< 50	**21.9**	< 19.5 U	**14**
Barium (Ba)	1000	ug/l	**731 EN**	**80.4 N**	**120**	**69 BEN**	**233 N**	**330**	**806 EN**	**2050 N**	**2400**
Beryllium (Be)	3	ug/l	< 0.6 U	< 0.54 UN	< 1	< 0.6 U	< 0.54 UN	< 1	< 0.6 U	< 2.7 UN	< 1
Cadmium (Cd)	5	ug/l	**5.8 N**	< 1.1 U	< 5	< 4.6 U	< 1.1 U	< 5	< 4.6 U	< 5.5 U	< 5
Calcium (Ca)		ug/l	**98400 E**	**399000**	**600000**	**547000 E**	**214000**	**610000**	**158000 E**	**49400**	**60000**
Chromium (Cr)	50	ug/l	**337**	< 1.3 UN	< 5	< 7.3 U	**10 N**	**13**	**33.7**	**50.5 N**	**62**
Cobalt (Co)		ug/l	BNJR#	< 1.8 U	< 5	BNJR#	< 1.8 U	< 5	BNJR#	**62.9**	**71**
Copper (Cu)	200	ug/l	JR#	< 4.3 U	< 200	BJR#	< 4.3 U	< 10	**47.7**	< 21.5 U	**30**
Iron (Fe)	300	ug/l	**13000 E**	**1300 N**	**2400**	**3760 E**	**144 BN**	**2300**	**63300 E**	**14400 N**	**16000**
Lead (Pb)	25	ug/l	**23.9**	< 3 U	< 5	< 11 U	< 3 U	< 5	**14.2**	< 15 U	< 5
Magnesium (Mg)	35000	ug/l	**258000**	**506000**	**60000**	**901000**	**593000**	**680000**	**319000**	**233000**	**290000**
Manganese (Mn)	300	ug/l	**321 E**	**853**	**1200**	**2200 E**	**284**	**300**	**6870 E**	< 34.5 U	**20**
Mercury (Hg)	.7	ug/l	< 0.2 UN	< 0.07 U	< 0.2	< 0.2 UN	< 0.07 U	< 0.2	< 0.4 UN	< 0.07 U	< 0.2
Nickel (Ni)	100	ug/l	**73.1 J**	**4.2 B**	< 10	< 10.2 UJ	**2.2 B**	< 10	**414**	**732**	**830**
Potassium (K)		ug/l	**684000**	**223000**	**280000**	**137000**	**361000**	**590000**	**100000**	**259000**	**380000**
Selenium (Se)	10	ug/l	< 22 UN	< 5 UN	< 4	< 22 UNW	< 5 UN	< 4	< 22 U	< 25 UN	< 4
Silver (Ag)	50	ug/l	< 2.9 U	< 1.1 U	< 5	< 2.9 U	< 1.1 U	< 5	**3.7 B**	< 5.5 U	< 5
Sodium (Na)	20000	ug/l	**5360000**	**216000**	**6300000**	**7450000**	**218000**	**6300000**	**1790000**	**928000**	**3200000**
Thallium (Tl)	.5	ug/l	< 2.2 UNWR	< 10 U	< 5	< 22 UN	**15.5 B**	< 5	< 2.2 UWN	< 50 U	< 5
Vanadium (V)		ug/l	**989**	**1.8 BN**	< 5	**4.9 B**	**21.6 N**	**15**	**16.5 B**	**21.3 BN**	**33**
Zinc (Zn)	2000	ug/l	**136 E**	< 11 U	**20**	**20.2 E**	< 11 U	**30**	**35.8 E**	< 55 U	**30**

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
PCB and Pesticides Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-pel

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-104			MW-109			MW-110		
			Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06
PCB											
Aroclor 1016		ug/l			< 1			< 1			< 1
Aroclor 1221		ug/l			< 1			< 1			< 1
Aroclor 1232		ug/l			< 1			< 1			< 1
Aroclor 1242		ug/l			< 1			< 1		well	< 1
Aroclor 1248		ug/l			< 1			< 1			< 1
Aroclor 1254		ug/l			< 1			< 1			< 1
Aroclor 1260		ug/l			< 1			< 1			< 1
Pest										dry	
4,4'-DDD	.3	ug/l	**0.012 J**	< 0.014 U	< 0.05		< 0.014 U	< 0.05	**0.015 J**		< 0.05
4,4'-DDE	.2	ug/l	**0.015 J**	< 0.0088 U	< 0.05		< 0.0088 U	< 0.05	**0.011 J**		< 0.05
4,4'-DDT	.2	ug/l		< 0.01 U	< 0.1		< 0.01 U	< 0.1			< 0.1
Aldrin		ug/l		< 0.0058 U	< 0.05		< 0.0058 U	< 0.05		no	< 0.05
alpha-BHC	.01	ug/l		< 0.011 U	< 0.05		< 0.011 U	< 0.05			< 0.05
alpha-Chlordane	.05	ug/l		< 0.0055 U			< 0.0055 U			sa	
beta-BHC	.04	ug/l		< 0.013 U	< 0.05		< 0.013 U	< 0.05			< 0.05
delta-BHC	.04	ug/l	**0.017 J**	< 0.0022 U	< 0.05		< 0.0022 U	< 0.05	JVR#	m	< 0.05
Dieldrin	.004	ug/l	**0.0063 J**	< 0.0057 U	< 0.05		< 0.0057 U	< 0.05		p	< 0.05
Endosulfan I		ug/l		< 0.0035 U	< 0.1		< 0.0035 U	< 0.1		le	< 0.1
Endosulfan II		ug/l		< 0.012 U	< 0.1		< 0.012 U	< 0.1			< 0.1
Endosulfan Sulfate		ug/l		< 0.014 U	< 0.3	BJVR#	< 0.014 U	< 0.3		o	< 0.3
Endrin		ug/l		< 0.025 U	< 0.05		< 0.025 U	< 0.05		b	< 0.05
Endrin Aldehyde	5	ug/l		< 0.028 U	< 0.3		< 0.028 U	< 0.3		ta	< 0.3
Endrin ketone	5	ug/l		< 0.016 U	< 0.1		< 0.016 U	< 0.1			< 0.1
gamma-BHC (Lindane)	.05	ug/l		< 0.0052 U	< 0.05		< 0.0052 U	< 0.05		in	< 0.05
gamma-Chlordane	.05	ug/l		< 0.0061 U			< 0.0061 U			ed	
Heptachlor	.04	ug/l		< 0.0078 U	< 0.05		< 0.0078 U	< 0.05			< 0.05
Heptachlor Epoxide	.03	ug/l		< 0.0057 U	< 0.05		< 0.0057 U	< 0.05			< 0.05
Methoxychlor	35	ug/l		< 0.041 U	< 0.1		< 0.041 U	< 0.1			< 0.1
Technical Chlordane	.05	ug/l			< 0.2			< 0.2			< 0.2
Toxaphene	.06	ug/l		< 0.21 U	< 1		< 0.21 U	< 1			< 1

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Table 5B
Groundwater Monitoring Wells
PCB and Pesticides Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-pel

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-113			MW-114			MW-119		
			Jul-92	May-06	Nov-06	Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06
PCB											
Aroclor 1016		ug/l			< 1			< 1			< 1
Aroclor 1221		ug/l			< 1			< 1			< 1
Aroclor 1232		ug/l			< 1			< 1			< 1
Aroclor 1242		ug/l			< 1			< 1			< 1
Aroclor 1248		ug/l			< 1			< 1			< 1
Aroclor 1254		ug/l			< 1			< 1			< 1
Aroclor 1260		ug/l			< 1			< 1			< 1
Pest				< 0.014 U			< 0.014 U				
4,4'-DDD	.3	ug/l		< 0.0088 U	< 0.05		< 0.0088 U	< 0.05	**0.011 JV**	< 0.016 U	< 0.05
4,4'-DDE	.2	ug/l		< 0.01 U	< 0.05		< 0.01 U	< 0.05		< 0.0098 U	< 0.05
4,4'-DDT	.2	ug/l		< 0.0058 U	< 0.1		< 0.0058 U	< 0.1		< 0.012 U	< 0.1
Aldrin		ug/l		< 0.011 U	< 0.05		< 0.011 U	< 0.05		< 0.0064 U	< 0.05
alpha-BHC	.01	ug/l		< 0.0055 U	< 0.05		< 0.0055 U	< 0.05		< 0.012 U	< 0.05
alpha-Chlordane	.05	ug/l		< 0.013 U			< 0.013 U			< 0.0061 U	
beta-BHC	.04	ug/l		< 0.0022 U	< 0.05		< 0.0022 U	< 0.05		< 0.014 U	< 0.05
delta-BHC	.04	ug/l		< 0.0057 U	< 0.05	**0.02 J**	< 0.0057 U	< 0.05		< 0.0024 U	< 0.05
Dieldrin	.004	ug/l	**0.033 JV**	< 0.0035 U	< 0.05		< 0.0035 U	< 0.05		< 0.0063 U	< 0.05
Endosulfan I		ug/l		< 0.012 U	< 0.1		< 0.012 U	< 0.1		< 0.0039 U	< 0.1
Endosulfan II		ug/l	**0.053 JV**	< 0.014 U	< 0.1		< 0.014 U	< 0.1		< 0.014 U	< 0.1
Endosulfan Sulfate		ug/l	BJVR#	< 0.025 U	< 0.3		< 0.025 U	< 0.3		< 0.016 U	< 0.3
Endrin		ug/l		< 0.028 U	< 0.05		< 0.028 U	< 0.05		< 0.028 U	< 0.05
Endrin Aldehyde	5	ug/l		< 0.016 U	< 0.3		< 0.016 U	< 0.3		< 0.031 U	< 0.3
Endrin ketone	5	ug/l		< 0.0052 U	< 0.1		< 0.0052 U	< 0.1		< 0.018 U	< 0.1
gamma-BHC (Lindane)	.05	ug/l		**0.016 J**	< 0.05		**0.016 J**	< 0.05		< 0.0058 U	< 0.05
gamma-Chlordane	.05	ug/l		< 0.0078 U			< 0.0078 U			< 0.0068 U	
Heptachlor	.04	ug/l		**0.016 J**	< 0.05		**0.0094 J**	< 0.05		< 0.0087 U	< 0.05
Heptachlor Epoxide	.03	ug/l		< 0.041 U	< 0.05		< 0.041 U	< 0.05		< 0.0063 U	< 0.05
Methoxychlor	35	ug/l			< 0.1			< 0.1		< 0.045 U	< 0.1
Technical Chlordane	.05	ug/l		< 0.21 U	< 0.2		< 0.21 U	< 0.2			< 0.2
Toxaphene	.06	ug/l			< 1			< 1		< 0.24 U	< 1

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Table 5B
Groundwater Monitoring Wells
PCB and Pesticides Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-pel

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-120			MW-120B			MW-122		
			Aug-02	May-06	Nov-06	Jul-92	May-06	Nov-06	Aug-02	May-06	Nov-06
PCB											
Aroclor 1016		ug/l			< 1			< 1			< 1
Aroclor 1221		ug/l			< 1			< 1			< 1
Aroclor 1232		ug/l			< 1			< 1			< 1
Aroclor 1242		ug/l			< 1			< 1			< 1
Aroclor 1248		ug/l			< 1			< 1			< 1
Aroclor 1254		ug/l			< 1			< 1			< 1
Aroclor 1260		ug/l			< 1			< 1			< 1
Pest											
4,4'-DDD	.3	ug/l		< 0.016 U	< 0.05		< 0.014 U	< 0.05		< 0.016 U	< 0.05
4,4'-DDE	.2	ug/l	R	< 0.0096 U	< 0.05	**0.017 JV**	< 0.0088 U	< 0.05		< 0.0096 U	< 0.05
4,4'-DDT	.2	ug/l		< 0.011 U	< 0.1		< 0.01 U	< 0.1		< 0.011 U	< 0.1
Aldrin		ug/l		< 0.0063 U	< 0.05		< 0.0058 U	< 0.05	**0.0093 JV**	**0.033 JM**	< 0.05
alpha-BHC	.01	ug/l		< 0.012 U	< 0.05	**0.011 JV**	< 0.011 U	< 0.05		< 0.012 U	< 0.05
alpha-Chlordane	.05	ug/l		< 0.006 U			< 0.0055 U			< 0.006 U	
beta-BHC	.04	ug/l		< 0.014 U	< 0.05		< 0.013 U	< 0.05		**0.24 M**	< 0.05
delta-BHC	.04	ug/l		< 0.0024 U	< 0.05		< 0.0022 U	< 0.05		**0.038 JM**	< 0.05
Dieldrin	.004	ug/l	R	< 0.0062 U	< 0.05		< 0.0057 U	< 0.05		**0.019 J**	< 0.05
Endosulfan I		ug/l		< 0.0038 U	< 0.1		< 0.0035 U	< 0.1		< 0.0038 U	< 0.1
Endosulfan II		ug/l		< 0.013 U	< 0.1		< 0.012 U	< 0.1		< 0.013 U	< 0.1
Endosulfan Sulfate		ug/l		< 0.015 U	< 0.3		< 0.014 U	< 0.3		< 0.015 U	< 0.3
Endrin		ug/l		< 0.027 U	< 0.05		< 0.025 U	< 0.05		< 0.027 U	< 0.05
Endrin Aldehyde	5	ug/l		< 0.031 U	< 0.3		< 0.028 U	< 0.3		< 0.031 U	< 0.3
Endrin ketone	5	ug/l		< 0.018 U	< 0.1		< 0.016 U	< 0.1		< 0.018 U	< 0.1
gamma-BHC (Lindane)	.05	ug/l		< 0.0057 U	< 0.05		< 0.0052 U	< 0.05		< 0.0057 U	< 0.05
gamma-Chlordane	.05	ug/l		< 0.0066 U			< 0.0061 U			**0.0096 JM**	
Heptachlor	.04	ug/l		< 0.0085 U	< 0.05		< 0.0078 U	< 0.05		< 0.0085 U	< 0.05
Heptachlor Epoxide	.03	ug/l		< 0.0062 U	< 0.05		< 0.0057 U	< 0.05		< 0.0062 U	< 0.05
Methoxychlor	35	ug/l	R	< 0.044 U	< 0.1		< 0.041 U	< 0.1		< 0.044 U	< 0.1
Technical Chlordane	.05	ug/l			< 0.2			< 0.2			< 0.2
Toxaphene	.06	ug/l		< 0.23 U	< 1		< 0.21 U	< 1		< 0.23 U	< 1

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All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
SVOC Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-104			MW-109			MW-110			MW-113		
			Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06
SVOC														
1,2,4-Trichlorobenzene	5	ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
1,2-Dichlorobenzene as a SVOC	3	ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
1,3-Dichlorobenzene as a SVOC	3	ug/l		< 0.7 U	**1 J**		< 0.7 U	< 2			< 2		< 0.7 U	< 2
1,4-Dichlorobenzene as a SVOC	3	ug/l		< 0.5 U	**5 J**		< 0.5 U	< 2			< 2		< 0.5 U	< 2
2,2-oxybis (1-chloropropane)	5	ug/l		< 0.6 U	< 0.6 U	**4 J**	< 0.6 U	< 2			< 2		< 0.6 U	< 2
2,4,5-Trichlorophenol		ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
2,4,6-Trichlorophenol		ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
2,4-Dichlorophenol	5			< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
2,4-Dimethylphenol	50	ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
2,4-Dinitrophenol	10	ug/l		< 5 U	< 5 U		< 5 U	< 20			< 20		< 5 U	< 20
2,4-Dinitrotoluene	5	ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
2,6-Dinitrotoluene	5	ug/l		< 0.6 U	< 0.6 U		< 0.6 U	< 2			< 2		< 0.6 U	< 2
2-Chloronaphthalene	10	ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
2-Methylnaphthalene		ug/l		< 0.6 U	< 0.6 U		< 0.6 U	< 2			< 2		< 0.6 U	< 2
2-Nitroaniline	5	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
2-Nitrophenol	1	ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
3,3-Dichlorobenzidine	5	ug/l		< 1 U	< 1 U		< 1 U	< 20			< 20		< 1 U	< 20
3-Nitroaniline	5	ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
4,6-Dinitro-2-methylphenol	1	ug/l		< 4 U	< 4 U		< 4 U	< 20			< 20		< 4 U	< 20
4-Bromophenyl Phenyl Ether		ug/l		< 0.9 U	< 0.9 U		< 0.9 U	< 2			< 2		< 0.9 U	< 2
4-chloro-3-methylphenol	1	ug/l		< 0.5 U	< 0.5 U		< 0.5 U	< 2			< 2		< 0.5 U	< 2
4-Chloroaniline	5	ug/l		< 0.4 U	< 0.4 U		< 0.4 U	< 2			< 2		< 0.4 U	< 2
4-Chlorophenyl Phenyl Ether		ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
4-Methylphenol (m/p-cresol)	1	ug/l		< 0.3 U	< 0.3 U		< 0.3 U	< 2			< 2		< 0.3 U	< 2
4-Nitroaniline	5	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
4-Nitrophenol	1	ug/l		< 2 U	< 2 U		< 2 U	< 20			< 20		< 2 U	< 20
Acenaphthene	20	ug/l	**4 J**	< 0.8 U	**3 J**		< 0.8 U	< 2			< 2		< 0.8 U	< 2
Acenaphthylene		ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
Anthracene	50	ug/l		< 1 U	**7 JH**		< 1 U	< 2			< 2		< 1 U	< 2

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Table 5B
Groundwater Monitoring Wells
SVOC Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-104			MW-109			MW-110			MW-113		
			Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06
Benzo(a)anthracene	.002	ug/l		< 1 U	< 1 U		< 1 U	< 2		well dry no sample obtained	< 2		< 1 U	< 2
Benzo(a)pyrene		ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Benzo(b)fluoranthene	.002	ug/l		< 2 U	< 2 U		< 2 U	< 2			< 2		< 2 U	< 2
Benzo(ghi)perylene		ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Benzo(k)fluoranthene	.002	ug/l		< 0.9 U	< 0.9 U		< 0.9 U	< 2			< 2		< 0.9 U	< 2
Benzyl Alcohol		ug/l		< 1 U	< 1 U		< 1 U						< 1 U	
bis(2-Chloroethoxy)methane	5	ug/l		< 0.5 U	< 0.5 U		< 0.5 U	< 2			< 2		< 0.5 U	< 2
bis(2-Ethylhexyl)phthalate	5	ug/l	**4 J**	< 1 U	< 1 U		**3 J**	**3.8**			**3.1**		< 1 U	**12**
Butyl benzyl phthalate	50	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Carbazole		ug/l		< 1 U	**3 J**		< 1 U	< 2			< 2		< 1 U	< 2
Chrysene	.002	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Dibenzo(a,h)anthracene		ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Dibenzofuran		ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
Diethyl phthalate	50	ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
Dimethyl Phthalate	50	ug/l		< 0.6 U	< 0.6 U		< 0.6 U	< 2			< 2		< 0.6 U	< 2
Di-n-butyl phthalate	50	ug/l		< 1 U	< 1 U	BJR#	< 1 U	< 2			< 2		< 1 U	< 2
Di-n-octyl phthalate	50	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Fluoranthene	50	ug/l	**3 J**	< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Fluorene	50	ug/l	**2 J**	< 0.8 U	< 0.8 UH		< 0.8 U	< 2			< 2		< 0.8 U	< 2
Hexachlorobenzene	.04	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Hexachlorobutadiene	.5	ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
Hexachlorocyclopentadiene	5	ug/l		< 2 U	< 2 U		< 2 U	< 20			< 20		< 2 U	< 20
Hexachloroethane	5	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Indeno(1,2,3-cd)pyrene	.002	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Isophorone	50	ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
Naphthalene	10	ug/l	**6 J**	< 0.7 U	**0.9 J**		< 0.7 U	< 2			< 2		< 0.7 U	< 2
Nitrobenzene	.4	ug/l		< 0.8 U	< 0.8 U		< 0.8 U	< 2			< 2		< 0.8 U	< 2
n-Nitroso-di-n-propylamine		ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
N-Nitrosodiphenylamine	50	ug/l		< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2
Pentachlorophenol	1	ug/l		< 5 U	< 5 U		< 5 U	< 20			< 20		< 5 U	< 20
Phenanthrene	50	ug/l		< 0.7 U	< 0.7 U		< 0.7 U	< 2			< 2		< 0.7 U	< 2
Pyrene	50	ug/l	**2 J**	< 1 U	< 1 U		< 1 U	< 2			< 2		< 1 U	< 2

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
SVOC Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-114			MW-119			MW-120			MW-120B		
			Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Jul-92	May-06	Nov-06
SVOC														
1,2,4-Trichlorobenzene	5	ug/l		< 0.7 U	< 2		< 0.7 U	< 2		< 0.7 U	< 2		< 0.7 U	< 2
1,2-Dichlorobenzene as a SVOC	3	ug/l		< 0.7 U	< 2		< 0.8 U	< 2		< 0.6 U	< 2		< 0.7 U	< 2
1,3-Dichlorobenzene as a SVOC	3	ug/l		< 0.7 U	< 2		< 0.7 U	< 2		< 1 U	< 2		< 0.7 U	< 2
1,4-Dichlorobenzene as a SVOC	3	ug/l		< 0.5 U	< 2		< 0.5 U	< 2	**4 J**	< 0.8 U	< 2		< 0.5 U	< 2
2,2-oxybis (1-chloropropane)	5	ug/l		< 0.6 U	< 2		< 0.7 U	< 2		< 1 U	< 2		< 0.6 U	< 2
2,4,5-Trichlorophenol		ug/l		< 0.8 U	< 2		< 0.8 U	< 2		< 0.7 U	< 2		< 0.8 U	< 2
2,4,6-Trichlorophenol		ug/l		< 0.8 U	< 2		< 0.9 U	< 2		< 4 U	< 2		< 0.8 U	< 2
2,4-Dichlorophenol	5			< 0.8 U	< 2		< 0.9 U	< 2		< 0.9 U	< 2		< 0.8 U	< 2
2,4-Dimethylphenol	50	ug/l		< 0.7 U	< 2		< 0.8 U	< 2	**68**	< 0.5 U	< 2		< 0.7 U	< 2
2,4-Dinitrophenol	10	ug/l		< 5 U	< 20		< 6 U	< 20		< 0.4 U	< 20		< 5 U	< 20
2,4-Dinitrotoluene	5	ug/l		< 0.8 U	< 2		< 0.9 U	< 2		< 0.8 U	< 2		< 0.8 U	< 2
2,6-Dinitrotoluene	5	ug/l		< 0.6 U	< 2		< 0.6 U	< 2		< 0.3 U	< 2		< 0.6 U	< 2
2-Chloronaphthalene	10	ug/l		< 0.7 U	< 2		< 0.8 U	< 2		< 1 U	< 2		< 0.7 U	< 2
2-Methylnaphthalene		ug/l		< 0.6 U	< 2		< 0.7 U	< 2		< 2 U	< 2		< 0.6 U	< 2
2-Nitroaniline	5	ug/l		< 1 U	< 2		< 1 U	< 2		< 0.8 U	< 2		< 1 U	< 2
2-Nitrophenol	1	ug/l		< 0.8 U	< 2		< 0.8 U	< 2		< 0.8 U	< 2		< 0.8 U	< 2
3,3-Dichlorobenzidine	5	ug/l		< 1 U	< 20		< 1 U	< 20		< 1 U	< 20		< 1 U	< 20
3-Nitroaniline	5	ug/l		< 0.7 U	< 2		< 0.7 U	< 2		< 1 U	< 2		< 0.7 U	< 2
4,6-Dinitro-2-methylphenol	1	ug/l		< 4 U	< 20		< 5 U	< 20		< 1 U	< 20		< 4 U	< 20
4-Bromophenyl Phenyl Ether		ug/l		< 0.9 U	< 2		< 1 U	< 2		< 2 U	< 2		< 0.9 U	< 2
4-chloro-3-methylphenol	1	ug/l		< 0.5 U	< 2		< 0.6 U	< 2		< 1 U	< 2		< 0.5 U	< 2
4-Chloroaniline	5	ug/l		< 0.4 U	< 2		< 0.5 U	< 2		< 0.9 U	< 2		< 0.4 U	< 2
4-Chlorophenyl Phenyl Ether		ug/l		< 0.8 U	< 2		< 0.9 U	< 2		< 1 U	< 2		< 0.8 U	< 2
4-Methylphenol (m/p-cresol)	1	ug/l		< 0.3 U	< 2		< 0.4 U	< 2		< 0.5 U	< 2		< 0.3 U	< 2
4-Nitroaniline	5	ug/l		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2
4-Nitrophenol	1	ug/l		< 2 U	< 20		< 2 U	< 20		< 1 U	< 20		< 2 U	< 20
Acenaphthene	20	ug/l		< 0.8 U	< 2		< 0.9 U	< 2	**4 J**	< 1 U	< 2		< 0.8 U	< 2
Acenaphthylene		ug/l		< 0.8 U	< 2		< 0.8 U	< 2		< 1 U	< 2		< 0.8 U	< 2
Anthracene	50	ug/l		< 1 U	< 2		< 1 U	< 2	**4 J**	< 1 U	< 2		< 1 U	< 2

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Table 5B
Groundwater Monitoring Wells
SVOC Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-114			MW-119			MW-120			MW-120B		
			Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Jul-92	May-06	Nov-06
Benzo(a)anthracene	.002	ug/l		< 1 U	< 2		< 1 U	< 2		< 0.8 U	< 2		< 1 U	< 2
Benzo(a)pyrene		ug/l		< 1 U	< 2		< 1 U	< 2		< 0.8 U	< 2		< 1 U	< 2
Benzo(b)fluoranthene	.002	ug/l		< 2 U	< 2		< 2 U	< 2		< 0.6 U	< 2		< 2 U	< 2
Benzo(ghi)perylene		ug/l		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2
Benzo(k)fluoranthene	.002	ug/l		< 0.9 U	< 2		< 1 U	< 2		< 1 U	< 2		< 0.9 U	< 2
Benzyl Alcohol		ug/l		< 1 U			< 1 U			< 1 U			< 1 U	
bis(2-Chloroethoxy)methane	5	ug/l		< 0.5 U	< 2		< 0.5 U	< 2		< 0.8 U	< 2		< 0.5 U	< 2
bis(2-Ethylhexyl)phthalate	5	ug/l		< 1 U	**2.5**		< 1 U	< 2	**6 J**	< 1 U	< 2	**2 J**	< 1 U	**2.7**
Butyl benzyl phthalate	50	ug/l		< 1 U	< 2		< 1 U	< 2		< 0.8 U	< 2		< 1 U	< 2
Carbazole		ug/l		< 1 U	< 2		< 1 U	< 2		< 2 U	< 2		< 1 U	< 2
Chrysene	.002	ug/l		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2
Dibenzo(a,h)anthracene		ug/l		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2
Dibenzofuran		ug/l		< 0.8 U	< 2		< 0.9 U	< 2		< 0.7 U	< 2		< 0.8 U	< 2
Diethyl phthalate	50	ug/l		< 0.8 U	< 2		< 0.9 U	< 2		< 0.7 U	< 2		< 0.8 U	< 2
Dimethyl Phthalate	50	ug/l		< 0.6 U	< 2		< 0.7 U	< 2		< 0.8 U	< 2		< 0.6 U	< 2
Di-n-butyl phthalate	50	ug/l		< 1 U	< 2		< 1 U	< 2		< 0.7 U	< 2		< 1 U	< 2
Di-n-octyl phthalate	50	ug/l		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2
Fluoranthene	50	ug/l		< 1 U	< 2		< 1 U	< 2	**3 J**	< 5 U	< 2		< 1 U	< 2
Fluorene	50	ug/l		< 0.8 U	< 2		< 0.8 U	< 2	**3 J**	< 0.7 U	< 2		< 0.8 U	< 2
Hexachlorobenzene	.04	ug/l		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2		< 1 U	< 2
Hexachlorobutadiene	.5	ug/l		< 0.8 U	< 2		< 0.9 U	< 2			< 2		< 0.8 U	< 2
Hexachlorocyclopentadiene	5	ug/l		< 2 U	< 20		< 2 U	< 20			< 20		< 2 U	< 20
Hexachloroethane	5	ug/l		< 1 U	< 2		< 1 U	< 2			< 2		< 1 U	< 2
Indeno(1,2,3-cd)pyrene	.002	ug/l		< 1 U	< 2		< 1 U	< 2			< 2		< 1 U	< 2
Isophorone	50	ug/l		< 0.7 U	< 2		< 0.7 U	< 2			< 2		< 0.7 U	< 2
Naphthalene	10	ug/l		< 0.7 U	< 2		< 0.7 U	< 2	**3 J**		< 2		< 0.7 U	< 2
Nitrobenzene	.4	ug/l		< 0.8 U	< 2		< 0.9 U	< 2			< 2		< 0.8 U	< 2
n-Nitroso-di-n-propylamine		ug/l		< 0.7 U	< 2		< 0.8 U	< 2			< 2		< 0.7 U	< 2
N-Nitrosodiphenylamine	50	ug/l		< 1 U	< 2		< 1 U	< 2			< 2		< 1 U	< 2
Pentachlorophenol	1	ug/l		< 5 U	< 20		< 5 U	< 20			< 20		< 5 U	< 20
Phenanthrene	50	ug/l		< 0.7 U	< 2		< 0.7 U	< 2	**35**		< 2		< 0.7 U	< 2
Pyrene	50	ug/l		< 1 U	< 2		< 1 U	< 2	**4 J**		< 2		< 1 U	< 2

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
SVOC Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-122		
			Aug-02	May-06	Nov-06
SVOC					
1,2,4-Trichlorobenzene	5	ug/l		< 0.7 U	< 2
1,2-Dichlorobenzene as a SVOC	3	ug/l		< 0.7 U	< 2
1,3-Dichlorobenzene as a SVOC	3	ug/l		1 J	< 2
1,4-Dichlorobenzene as a SVOC	3	ug/l		5 J	< 2
2,2-oxybis (1-chloropropane)	5	ug/l		< 0.6 U	< 2
2,4,5-Trichlorophenol		ug/l		< 0.8 U	< 2
2,4,6-Trichlorophenol		ug/l		< 0.8 U	< 2
2,4-Dichlorophenol	5			< 0.8 U	< 2
2,4-Dimethylphenol	50	ug/l		< 0.7 U	< 2
2,4-Dinitrophenol	10	ug/l		< 5 U	< 20
2,4-Dinitrotoluene	5	ug/l		< 0.8 U	< 2
2,6-Dinitrotoluene	5	ug/l		< 0.6 U	< 2
2-Chloronaphthalene	10	ug/l		< 0.7 U	< 2
2-Methylnaphthalene		ug/l		< 0.6 U	< 2
2-Nitroaniline	5	ug/l		< 1 U	< 2
2-Nitrophenol	1	ug/l		< 0.8 U	< 2
3,3-Dichlorobenzidine	5	ug/l		< 1 U	< 20
3-Nitroaniline	5	ug/l		< 0.7 U	< 2
4,6-Dinitro-2-methylphenol	1	ug/l		< 4 U	< 20
4-Bromophenyl Phenyl Ether		ug/l		< 0.9 U	< 2
4-chloro-3-methylphenol	1	ug/l		< 0.5 U	< 2
4-Chloroaniline	5	ug/l		< 0.4 U	< 2
4-Chlorophenyl Phenyl Ether		ug/l		< 0.8 U	< 2
4-Methylphenol (m/p-cresol)	1	ug/l		< 0.3 U	< 2
4-Nitroaniline	5	ug/l		< 1 U	< 2
4-Nitrophenol	1	ug/l		< 2 U	< 20
Acenaphthene	20	ug/l		3 J	< 2
Acenaphthylene		ug/l		< 0.8 U	< 2
Anthracene	50	ug/l		7 JH	< 2

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Table 5B
Groundwater Monitoring Wells
SVOC Data Comparison
Pelham Bay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-122		
			Aug-02	May-06	Nov-06
Benzo(a)anthracene	.002	ug/l		< 1 U	< 2
Benzo(a)pyrene		ug/l		< 1 U	< 2
Benzo(b)fluoranthene	.002	ug/l		< 2 U	< 2
Benzo(ghi)perylene		ug/l		< 1 U	< 2
Benzo(k)fluoranthene	.002	ug/l		< 0.9 U	< 2
Benzyl Alcohol		ug/l		< 1 U	
bis(2-Chloroethoxy)methane	5	ug/l		< 0.5 U	< 2
bis(2-Ethylhexyl)phthalate	5	ug/l		< 1 U	**3.3**
Butyl benzyl phthalate	50	ug/l		< 1 U	< 2
Carbazole		ug/l		3 J	< 2
Chrysene	.002	ug/l		< 1 U	< 2
Dibenzo(a,h)anthracene		ug/l		< 1 U	< 2
Dibenzofuran		ug/l		< 0.8 U	< 2
Diethyl phthalate	50	ug/l		< 0.8 U	< 2
Dimethyl Phthalate	50	ug/l		< 0.6 U	< 2
Di-n-butyl phthalate	50	ug/l		< 1 U	< 2
Di-n-octyl phthalate	50	ug/l		< 1 U	< 2
Fluoranthene	50	ug/l		< 1 U	< 2
Fluorene	50	ug/l		< 0.8 UH	< 2
Hexachlorobenzene	.04	ug/l		< 1 U	< 2
Hexachlorobutadiene	.5	ug/l		< 0.8 U	< 2
Hexachlorocyclopentadiene	5	ug/l		< 2 U	< 20
Hexachloroethane	5	ug/l		< 1 U	< 2
Indeno(1,2,3-cd)pyrene	.002	ug/l		< 1 U	< 2
Isophorone	50	ug/l		< 0.7 U	< 2
Naphthalene	10	ug/l		0.9 J	< 2
Nitrobenzene	.4	ug/l		< 0.8 U	< 2
n-Nitroso-di-n-propylamine		ug/l		< 0.7 U	< 2
N-Nitrosodiphenylamine	50	ug/l		< 1 U	< 2
Pentachlorophenol	1	ug/l		< 5 U	< 20
Phenanthrene	50	ug/l		< 0.7 U	< 2
Pyrene	50	ug/l		< 1 U	< 2

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Table 5B
Groundwater Monitoring Wells
VOC Data Comparison
PelhamBay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-104			MW-109			MW-110			MW-113		
			Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06
VOC														
1,1,1-Trichloroethane	5	ug/l		< 0.4 U	< 1		< 0.4 U	< 1			< 1		< 0.4 U	< 1
1,1,2,2-Tetrachloroethane	5	ug/l		< 0.4 U	< 1		< 0.4 U	< 1			< 1		< 0.4 U	< 1
1,1,2-Trichloroethane	1	ug/l		< 0.6 U	< 1		< 0.6 U	< 1			< 1		< 0.6 U	< 1
1,1-Dichloroethane	5	ug/l		< 0.6 U	< 1		< 0.6 U	< 1			< 1		< 0.6 U	< 1
1,1-Dichloroethene	5	ug/l		< 0.7 U	< 1		< 0.7 U	< 1			< 1		< 0.7 U	< 1
1,2-Dichloroethane	.6	ug/l		< 0.6 U	< 1		< 0.6 U	< 1			< 1		< 0.6 U	< 1
1,2-Dichloroethene (total)	5	ug/l			< 2			< 2			< 2			< 2
1,2-Dichloropropane	1			< 0.9 U	< 1		< 0.9 U	< 1			< 1		< 0.9 U	< 1
2-Butanone (MEK)	50	ug/l		< 1.2 U	< 10		< 1.2 U	< 10			< 10		< 1.2 U	< 10
2-Chlorophenol	1	ug/l		< 0.6 U	< 2		< 0.6 U	< 2			< 2		< 0.6 U	< 2
2-Hexanone	50	ug/l		< 0.8 U	< 10		< 0.8 U	< 10			< 10		< 0.8 U	< 10
2-Methylphenol (o-cresol)	1	ug/l		< 0.6 U	< 2		< 0.6 U	< 2			< 2		< 0.6 U	< 2
4-methyl-2-pentanone (MIBK)		ug/l		< 0.7 U	< 10		< 0.7 U	< 10			< 10		< 0.7 U	< 10
Acetone	50	ug/l		**2.5 J**	< 10		**1.5 J**	< 10			< 10		**4.4 J**	< 10
Benzene	1	ug/l	**2 J**	< 0.4 U	< 1		< 0.4 U	< 1	JBR#		< 1	**1 J**	< 0.4 U	< 1
Bis(2-chloroethyl)ether	1	ug/l		< 0.9 U	< 2		< 0.9 U	< 2			< 2		< 0.9 U	< 2
Bromodichloromethane	50	ug/l		< 0.4 U	< 1		< 0.4 U	< 1			< 1		< 0.4 U	< 1
Bromoform	50	ug/l		< 0.8 U	< 1		< 0.8 U	< 1			< 1		< 0.8 U	< 1
Bromomethane	5	ug/l		< 1.2 U	< 1		< 1.2 U	< 1			< 1		< 1.2 U	< 1
Carbon Disulfide	60	ug/l	**1 J**	**4.2 J**	**4**		< 0.9 U	< 1			< 1		< 0.9 U	< 1
Carbon Tetrachloride	5	ug/l		< 1 U	< 1		< 1 U	< 1			< 1		< 1 U	< 1
Chlorobenzene	5	ug/l	**7**	< 0.4 U	< 1		< 0.4 U	< 1	**5**		< 1	**19**	< 0.4 U	**1**
Chloroethane	5	ug/l		< 0.8 U	< 1		< 0.8 U	< 1			< 1		< 0.8 U	< 1
Chloroform	7	ug/l		< 0.7 U	< 1	**2 J**	< 0.7 U	< 1			< 1		< 0.7 U	< 1
Chloromethane	5	ug/l		< 0.5 U	< 1		< 0.5 U	< 1			< 1		< 0.5 U	< 1
cis-1,2-Dichloroethene	5	ug/l		< 0.6 U			< 0.6 U						< 0.6 U	
cis-1,3-Dichloropropene	.4	ug/l		< 0.5 U	< 1		< 0.5 U	< 1			< 1		< 0.5 U	< 1
Dibromochloromethane	50	ug/l		< 0.5 U	< 1		< 0.5 U	< 1			< 1		< 0.5 U	< 1
Ethylbenzene	5	ug/l		< 1 U	< 1		< 1 U	< 1			< 1		< 1 U	< 1

well dry no sample obtained

Results exceeding the TOGS AWQS are shaded gray
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Table 5B
Groundwater Monitoring Wells
VOC Data Comparison
PelhamBay Landfill Annual Report
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Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-104			MW-109			MW-110			MW-113		
			Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06	Jul-92	May-06	Nov-06
m + p Xylene	5	ug/l			< 2			< 2		Well Dry no sample	< 2			< 2
Methylene Chloride	5	ug/l	BJR#	< 0.4 U	< 1	BJR#	< 0.4 U	< 1			< 1	BJR#	< 0.4 U	< 1
o Xylene	5	ug/l			< 1			< 1			< 1			< 1
Phenol	1	ug/l		< 0.4 U	< 2		< 0.4 U	< 2			< 2		< 0.4 U	< 2
Styrene	930	ug/l		< 0.5 U	< 1		< 0.5 U	< 1			< 1		< 0.5 U	< 1
Tetrachloroethene	5	ug/l		< 0.5 U	< 1		< 0.5 U	< 1			< 1		< 0.5 U	< 1
Toluene	5	ug/l		< 0.3 U	< 1		< 0.3 U	< 1			< 1		< 0.3 U	< 1
trans-1,2-Dichloroethene	5	ug/l		< 0.5 U			< 0.5 U						< 0.5 U	
trans-1,3-Dichloropropene	.4	ug/l		< 0.8 U	< 1		< 0.8 U	< 1			< 1		< 0.8 U	< 1
Trichloroethene	5	ug/l		< 0.7 U	< 1		< 0.7 U	< 1			< 1		< 0.7 U	< 1
Vinyl Chloride	2	ug/l		< 0.8 U	< 1		< 0.8 U	< 1			< 1		< 0.8 U	< 1
Xylenes (Total)	5	ug/l		< 1 U	< 3		< 1 U	< 3			< 3		< 1 U	< 3

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
VOC Data Comparison
PelhamBay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-114			MW-119			MW-120			MW-120B		
			Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Jul-92	May-06	Nov-06
VOC														
1,1,1-Trichloroethane	5	ug/l		< 0.4 U	< 1		< 0.4 U	< 1		< 0.4 U	< 1		< 0.4 U	< 1
1,1,2,2-Tetrachloroethane	5	ug/l		< 0.4 U	< 1		< 0.4 U	< 1		< 0.4 U	< 1		< 0.4 U	< 1
1,1,2-Trichloroethane	1	ug/l		< 0.6 U	< 1		< 0.6 U	< 1		< 0.6 U	< 1		< 0.6 U	< 1
1,1-Dichloroethane	5	ug/l		< 0.6 U	< 1		< 0.6 U	< 1		< 0.6 U	< 1		< 0.6 U	< 1
1,1-Dichloroethene	5	ug/l		< 0.7 U	< 1		< 0.7 U	< 1		< 0.7 U	< 1		< 0.7 U	< 1
1,2-Dichloroethane	.6	ug/l		< 0.6 U	< 1		< 0.6 U	< 1		< 0.6 U	< 1		< 0.6 U	< 1
1,2-Dichloroethene (total)	5	ug/l			< 2			< 2	**1 J**		< 2			< 2
1,2-Dichloropropane	1			< 0.9 U	< 1		< 0.9 U	< 1		< 0.9 U	< 1		< 0.9 U	< 1
2-Butanone (MEK)	50	ug/l		< 1.2 U	< 10		< 1.2 U	< 10		**2.3 J**	< 10		< 1.2 U	< 10
2-Chlorophenol	1	ug/l		< 0.6 U	< 2		< 0.7 U	< 2		< 0.6 U	< 2		< 0.6 U	< 2
2-Hexanone	50	ug/l		< 0.8 U	< 10		< 0.8 U	< 10		< 0.8 U	< 10		< 0.8 U	< 10
2-Methylphenol (o-cresol)	1	ug/l		< 0.6 U	< 2		< 0.6 U	< 2	**51**	< 0.6 U	< 2		< 0.6 U	< 2
4-methyl-2-pentanone (MIBK)		ug/l		< 0.7 U	< 10		< 0.7 U	< 10		< 0.7 U	< 10		< 0.7 U	< 10
Acetone	50	ug/l		**2.1 J**	< 10		**1.8 J**	< 10	JR#	**21 B**	< 10		**5.1 JB**	< 10
Benzene	1	ug/l		< 0.4 U	< 1		< 0.4 U	< 1	**3 J**	< 0.4 U	< 1		< 0.4 U	< 1
Bis(2-chloroethyl)ether	1	ug/l		< 0.9 U	< 2		< 0.9 U	< 2		< 0.9 U	< 2		< 0.9 U	< 2
Bromodichloromethane	50	ug/l		< 0.4 U	< 1		< 0.4 U	< 1		< 0.4 U	< 1		< 0.4 U	< 1
Bromoform	50	ug/l		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1
Bromomethane	5	ug/l		< 1.2 U	< 1		< 1.2 U	< 1		< 1.2 U	< 1		< 1.2 U	< 1
Carbon Disulfide	60	ug/l		< 0.9 U	< 1		< 0.9 U	< 1		< 0.9 U	< 1		**1.2 J**	< 1
Carbon Tetrachloride	5	ug/l		< 1 U	< 1		< 1 U	< 1		< 1 U	< 1		< 1 U	< 1
Chlorobenzene	5	ug/l	**14**	< 0.4 U	< 1		< 0.4 U	< 1	**12**	< 0.4 U	< 1		< 0.4 U	< 1
Chloroethane	5	ug/l		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1
Chloroform	7	ug/l		< 0.7 U	< 1		< 0.7 U	< 1		< 0.7 U	< 1		< 0.7 U	< 1
Chloromethane	5	ug/l		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1
cis-1,2-Dichloroethene	5	ug/l		< 0.6 U			< 0.6 U			< 0.6 U			< 0.6 U	
cis-1,3-Dichloropropene	.4	ug/l		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1
Dibromochloromethane	50	ug/l		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1
Ethylbenzene	5	ug/l		< 1 U	< 1		< 1 U	< 1	**5**	< 1 U	< 1		< 1 U	< 1

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
VOC Data Comparison
PelhamBay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-114			MW-119			MW-120			MW-120B		
			Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Aug-02	May-06	Nov-06	Jul-92	May-06	Nov-06
m + p Xylene	5	ug/l			< 2			< 2			< 2			< 2
Methylene Chloride	5	ug/l	BJR#	< 0.4 U	< 1		< 0.4 U	< 1	BJR#	< 0.4 UB	< 1	BJR#	< 0.4 UB	< 1
o Xylene	5	ug/l			< 1			< 1			< 1			< 1
Phenol	1	ug/l		< 0.4 U	< 2		< 0.4 U	< 2		< 0.4 U	< 2		< 0.4 U	< 2
Styrene	930	ug/l		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1
Tetrachloroethene	5	ug/l		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1		< 0.5 U	< 1
Toluene	5	ug/l		< 0.3 U	< 1		**0.31 J**	< 1	**8**	< 0.3 U	< 1		< 0.3 U	< 1
trans-1,2-Dichloroethene	5	ug/l		< 0.5 U			< 0.5 U			< 0.5 U			< 0.5 U	
trans-1,3-Dichloropropene	.4	ug/l		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1
Trichloroethene	5	ug/l		< 0.7 U	< 1		< 0.7 U	< 1		< 0.7 U	< 1		< 0.7 U	< 1
Vinyl Chloride	2	ug/l		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1		< 0.8 U	< 1
Xylenes (Total)	5	ug/l		< 1 U	< 3		< 1 U	< 3	**9**	< 1 U	< 3		< 1 U	< 3

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
VOC Data Comparison
PelhamBay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-122		
			Aug-02	May-06	Nov-06
VOC					
1,1,1-Trichloroethane	5	ug/l		< 0.4 U	< 1
1,1,2,2-Tetrachloroethane	5	ug/l		< 0.4 U	< 1
1,1,2-Trichloroethane	1	ug/l		< 0.6 U	< 1
1,1-Dichloroethane	5	ug/l		< 0.6 U	< 1
1,1-Dichloroethene	5	ug/l		< 0.7 U	< 1
1,2-Dichloroethane	.6	ug/l		< 0.6 U	< 1
1,2-Dichloroethene (total)	5	ug/l			< 2
1,2-Dichloropropane	1			< 0.9 U	< 1
2-Butanone (MEK)	50	ug/l		**2.4 J**	< 10
2-Chlorophenol	1	ug/l		< 0.6 U	< 2
2-Hexanone	50	ug/l		< 0.8 U	< 10
2-Methylphenol (o-cresol)	1	ug/l		< 0.6 U	< 2
4-methyl-2-pentanone (MIBK)		ug/l		< 0.7 U	< 10
Acetone	50	ug/l	**116 J**	**15 B**	< 10
Benzene	1	ug/l	**4 J**	**5.7**	**6**
Bis(2-chloroethyl)ether	1	ug/l		< 0.9 U	< 2
Bromodichloromethane	50	ug/l		< 0.4 U	< 1
Bromoform	50	ug/l		< 0.8 U	< 1
Bromomethane	5	ug/l		< 1.2 U	< 1
Carbon Disulfide	60	ug/l		< 0.9 U	< 1
Carbon Tetrachloride	5	ug/l		< 1 U	< 1
Chlorobenzene	5	ug/l	**25**	**29**	**26**
Chloroethane	5	ug/l		< 0.8 U	< 1
Chloroform	7	ug/l		< 0.7 U	< 1
Chloromethane	5	ug/l		< 0.5 U	< 1
cis-1,2-Dichloroethene	5	ug/l		< 0.6 U	
cis-1,3-Dichloropropene	.4	ug/l		< 0.5 U	< 1
Dibromochloromethane	50	ug/l		< 0.5 U	< 1
Ethylbenzene	5	ug/l	**5 J**	< 1 U	< 1

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
VOC Data Comparison
PelhamBay Landfill Annual Report
Contract 1140-PEL

Compounds of Concern	*NYSDEC Ambient Water Quality Standards and Guidance Values*	Unit	MW-122		
			Aug-02	May-06	Nov-06
m + p Xylene	5	ug/l			< 2
Methylene Chloride	5	ug/l	BJR#	< 0.4 UB	< 1
o Xylene	5	ug/l			**1**
Phenol	1	ug/l		< 0.4 U	< 2
Styrene	930	ug/l		< 0.5 U	< 1
Tetrachloroethene	5	ug/l		< 0.5 U	< 1
Toluene	5	ug/l	**1**	**3.4 J**	**4**
trans-1,2-Dichloroethene	5	ug/l		< 0.5 U	
trans-1,3-Dichloropropene	.4	ug/l		< 0.8 U	< 1
Trichloroethene	5	ug/l		< 0.7 U	< 1
Vinyl Chloride	2	ug/l		**0.81 J**	< 1
Xylenes (Total)	5	ug/l		**2.6 J**	< 3

Results exceeding the TOGS AWQS are shaded gray
All detections are boldfaced

Table 5B
Groundwater Monitoring Wells
Analytical Methods, Data Qualifiers and Footnotes

All Concentrations are in ug/l
U: Analyte was not detected at or above the reporting limit
B: (inorganics)result is less then the CRDL/RL but greater than or equal to the IDL/MDL
N: MS, MSD : Spike recovery exceeds the upper or lower control limits
ND: Compound not detected
B: (organics) Compound was found in blanks
J: (inorganics)result is less then the RL but greater than or equal to the method detection limit.
J: (organics)Result is an estimated value below the reporting limit or a tentatively indentified compound
IDL: Instrument detection limit
MDL: method detection limit
RL: reporting limit
NS: No standard available
N/A: Not Applicable
* Guidance Value
Concentration detected at levels above the NYSDEC Ambient Water Quality Standards and Guidance Values are shaded gray.
All detections are boldfaced

Aanalytical Methods	**May-06**	**Nov-06**
VOC	SW846 8260B	EPA 8260
SVOC	SW846 8270C	EPA 8270
PCB	EPA 608	EPA 608
Pesticides	SW846 8081A	EPA 609
Metals	SW846 6010B	EPA 200.7
Mercury	SW846 7470A	EPA 200.8
Cyanide	SM18 4500CNG	EPA 335.3

Tables 5C

Groundwater Elevation Measurements

Table - 5D Groundwater Elevation Measurements

GROUNDWATER ELEVATION CALCULATION SHEET
PELHAM BAY LANDFILL, BRONX, NEW YORK

Date 5/24/2006 **Time** Low Tide

Measurer T. Varley

Well Number	Top of Well Elevation	Depth to Groundwater (ft)	Groundwater Table Elev.
MW – 104	19.132	18.47	0.662
MW – 106	18.388	no reading	Unable to get reading well vandalized
MW – 109	23.952	17.01	6.942
MW – 110	20.013	20.71	-0.697
MW – 113	14.442	12.70	1.742
MW – 114	14.66	9.97	4.69
MW – 115	24.807	20.35	4.457
MW – 115B	24.876	20.16	4.716
MW – 117 *	8.077	5.31	2.767
MW – 117B *	Can't locate	no reading	Can't locate
MW – 118	19.113	19.36	-0.247
MW – 119	20.421	21.49	-1.069
MW – 120	18.838	21.14	-2.302
MW – 120B	19.296	20.57	-1.274
MW – 121	15.621	no reading	Well Broken- Bailer stuck
MW – 122	17.575	17.28	0.295
MW – 124 *	Can't locate	no reading	Can't locate
MW – 124B *	Can't locate	no reading	Can't locate
MW – 126 (PZ-5)	Can't locate	no reading	Can't locate
PZ-A	11.951	6.26	5.691
PZ-B *	14.254	7.47	6.784
PZ-C	11.374	5.52	5.854
PZ-D *	12.411	no reading	Blockage @ 5.90
PZ-E	9.545	6.20	3.345
PZ-F	9.645	6.68	2.965

* MW -117, MW-117B, MW-124, MW-124B, PZ-B & PZ-D are located outside landfill on Pelham park side

GROUNDWATER ELEVATION LOG
PELHAM BAY LANDFILL, BRONX, NEW YORK

Date 5/24/2006 **Measurer** T. Varley

GROUNDWATER ELEVATION			
Well Number	**Time**	**Elevation (ft) ***	**Comments**
MW – 104	8:10am	0.662	
MW – 106		no reading	Unable to get reading well vandalized
MW – 109	11:00am	6.942	
MW – 110	7:35am	-0.697	
MW – 113	8:30am	1.742	
MW – 114	11:05am	4.69	
MW – 115	10:05am	4.457	
MW – 115B	10:10am	4.716	
MW – 117	9:30am	2.767	
MW – 117B		no reading	Can't locate
MW – 118	7:40am	-0.247	
MW – 119	7:50am	-1.069	
MW – 120	8:000am	-2.302	
MW – 120B	7:55am	-1.274	
MW – 121		no reading	Well Broken- Bailer stuck
MW – 122	8:20am	0.295	
MW – 124		no reading	Can't locate
MW – 124B		no reading	Can't locate
MW – 126 (PZ-5)		no reading	Blockage
PZ-A	10:38am	5.691	
PZ-B	9:00am	6.784	
PZ-C	10:42am	5.854	
PZ-D	9:05am	no reading	Blockage @ 5.90
PZ-E	10:50am	3.345	
PZ-F	10:45am	2.965	

PZ-A, PZ-C, and PZ-E are piezometer wells upstream of slurry wall
PZ-B, PZ-D, and PZ-F are piezometer wells downstream of slurry wall

*** ALL ELEVATIONS REFER TO BRONX HIGHWAY DATUM, WHICH IS 2.608 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.**

Table - 5D Groundwater Elevation Measurements

GROUNDWATER ELEVATION CALCULATION SHEET
PELHAM BAY LANDFILL, BRONX, NEW YORK

Date 12/5/2006 **Time** 10:10 AM
Low Tide

Measurer K Bruce

Well Number	Top of Well Elevation	Depth to Groundwater (ft)	Groundwater Table Elev.
MW – 104	19.132	17	2.132
MW – 106	18.388	no reading	Blockage
MW – 109	23.952	17.2	6.752
MW – 110	20.013	18.14	1.873
MW – 113	14.442	12.96	1.482
MW – 114	14.66	10.38	4.28
MW – 115	24.807	20.4	4.407
MW – 115B	24.876	20.6	4.276
MW – 117 *	8.077	5.14	2.937
MW – 117B *	Can't locate	no reading	Can't locate
MW – 118	19.113	16.12	2.993
MW – 119	20.421	17.50	2.921
MW – 120	18.838	19.30	-0.462
MW – 120B	19.296	17.72	1.576
MW – 121	15.621		
MW – 122	17.575	15.92	1.655
MW – 124 *	Can't locate	no reading	Can't locate
MW – 124B *	Can't locate	no reading	Can't locate
MW – 126 (PZ-5)	Blockage	no reading	Blockage
PZ-A	11.951	6.28	5.671
PZ-B *	14.254	7.64	6.614
PZ-C	11.374	5.40	5.974
PZ-D *	12.411	no reading	Blockage @ 5.90
PZ-E	9.545	4.94	4.605
PZ-F	9.645	6.74	2.905

* MW -117, MW-117B, MW-124, MW-124B, PZ-B & PZ-D
are located outside landfill on Pelham park side

GROUNDWATER ELEVATION LOG
PELHAM BAY LANDFILL, BRONX, NEW YORK

Date 12/5/2006 **Measurer** K Bruce

GROUNDWATER ELEVATION			
Well Number	**Time**	**Elevation (ft) ***	**Comments**
MW – 104		2.132	
MW – 106		no reading	Blockage
MW – 109		6.752	
MW – 110		1.873	
MW – 113		1.482	
MW – 114		4.28	
MW – 115		4.407	
MW – 115B		4.276	
MW – 117		2.937	
MW – 117B		no reading	Can't locate
MW – 118		2.993	
MW – 119		2.921	
MW – 120		-0.462	
MW – 120B		1.576	
MW – 121		0.00	0.00
MW – 122		1.655	
MW – 124		no reading	Can't locate
MW – 124B		no reading	Can't locate
MW – 126 (PZ-5)		no reading	Blockage
PZ-A		5.671	
PZ-B		6.614	
PZ-C		5.974	
PZ-D		no reading	Blockage @ 5.90
PZ-E		4.605	
PZ-F		2.905	

PZ-A, PZ-C, and PZ-E are piezometer wells upstream of slurry wall
PZ-B, PZ-D, and PZ-F are piezometer wells downstream of slurry wall

*** ALL ELEVATIONS REFER TO BRONX HIGHWAY DATUM, WHICH IS 2.608 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.**

Table - 5D Groundwater Elevation Measurements

GROUNDWATER ELEVATION CALCULATION SHEET
PELHAM BAY LANDFILL, BRONX, NEW YORK

Date 12/13/2006 **Time** 11:30 AM
High Tide

Measurer K Bruce

Well Number	Top of Well Elevation	Depth to Groundwater (ft)	Groundwater Table Elev.
MW – 104	19.132	18.36	0.772
MW – 106	18.388	no reading	Blockage
MW – 109	23.952	19.81	4.142
MW – 110	20.013	20.48	-0.467
MW – 113	14.442	13.56	0.882
MW – 114	14.66	10.14	4.52
MW – 115	24.807	20.15	4.657
MW – 115B	24.876	20.34	4.536
MW – 117 *	8.077	5.84	2.237
MW – 117B *	Can't locate	no reading	Can't locate
MW – 118	19.113	21.16	-2.047
MW – 119	20.421	24.20	-3.779
MW – 120	18.838	20.72	-1.882
MW – 120B	19.296	22.30	-3.004
MW – 121	15.621	no reading	Blockage
MW – 122	17.575	20.18	-2.605
MW – 124 *	Can't locate	no reading	Can't locate
MW – 124B *	Can't locate	no reading	Can't locate
MW – 126 (PZ-5)	Blockage	no reading	Blockage
PZ-A	11.951	6.38	5.571
PZ-B *	14.254	7.72	6.534
PZ-C	11.374	5.60	5.774
PZ-D *	12.411	no reading	Blockage @ 5.90
PZ-E	9.545	6.46	3.085
PZ-F	9.645	7.20	2.445

* MW -117, MW-117B, MW-124, MW-124B, PZ-B & PZ-D
are located outside landfill on Pelham park side

GROUNDWATER ELEVATION LOG
PELHAM BAY LANDFILL, BRONX, NEW YORK

Date 12/13/2006 **Measurer** K Bruce

GROUNDWATER ELEVATION			
Well Number	**Time**	**Elevation (ft) ***	**Comments**
MW – 104		0.772	
MW – 106		no reading	Blockage
MW – 109		4.142	
MW – 110		-0.467	
MW – 113		0.882	
MW – 114		4.52	
MW – 115		4.657	
MW – 115B		4.536	
MW – 117		2.237	
MW – 117B		no reading	Can't locate
MW – 118		-2.047	
MW – 119		-3.779	
MW – 120		-1.882	
MW – 120B		-3.004	
MW – 121		no reading	Blockage
MW – 122		-2.605	
MW – 124		no reading	Can't locate
MW – 124B		no reading	Can't locate
MW – 126 (PZ-5)		no reading	Blockage
PZ-A		5.571	
PZ-B		6.534	
PZ-C		5.774	
PZ-D		no reading	Blockage @ 5.90
PZ-E		3.085	
PZ-F		2.445	

PZ-A, PZ-C, and PZ-E are piezometer wells upstream of slurry wall
PZ-B, PZ-D, and PZ-F are piezometer wells downstream of slurry wall

*** ALL ELEVATIONS REFER TO BRONX HIGHWAY DATUM, WHICH IS 2.608 FEET ABOVE MEAN SEA LEVEL AT SANDY HOOK, NEW JERSEY AS ESTABLISHED BY U.S. COAST AND GEODETIC SURVEY.**

Tables 6A and 6B

Leachate Schedule A Analytical Results

Table 6A Pelham Bay Landfill Leachate A Sample Date April 26, 2006	
Compound of Concern	**Result**
Mercury (Hg)	< 0.2 U ug/L
Cyanide, Total	< 0.01 U mg/L
Aluminum (Al)	80 B ug/L
Antimony (Sb)	< 2.5 U ug/L
Arsenic (As)	< 3.1 UN ug/L
Barium (Ba)	103 B ug/L
Beryllium (Be)	< 0.4 U ug/L
Cadmium (Cd)	< 0.8 U ug/L
Calcium (Ca)	83700 ug/L
Chromium (Cr)	4.2 B ug/L
Cobalt (Co)	< 1.9 U ug/L
Copper (Cu)	16.3 B ug/L
Iron (Fe)	337 E ug/L
Lead (Pb)	< 1.9 U ug/L
Magnesium (Mg)	32200 ug/L
Manganese (Mn)	74.3 ug/L
Nickel (Ni)	3.3 B ug/L
Potassium (K)	30600 ug/L
Selenium (Se)	< 3.9 UN ug/L
Silver (Ag)	< 1.1 U ug/L
Sodium (Na)	305000 ug/L
Thallium (Tl)	< 2.9 U ug/L
Vanadium (V)	7.1 B ug/L
Zinc (Zn)	29.4 ug/L
4,4'-DDD	< 0.05 U ug/L
4,4'-DDE	< 0.05 U ug/L
4,4'-DDT	< 0.05 U ug/L
Aldrin	< 0.025 U ug/L
alpha-BHC	< 0.025 U ug/L
beta-BHC	< 0.025 U ug/L
delta-BHC	< 0.025 U ug/L
Dieldrin	< 0.05 U ug/L
Endosulfan I	< 0.05 U ug/L
Endosulfan II	< 0.05 U ug/L
Endosulfan Sulfate	< 0.05 U ug/L
Endrin	< 0.05 U ug/L
Endrin Aldehyde	< 0.05 U ug/L
gamma-BHC (Lindane)	< 0.025 U ug/L
Heptachlor	< 0.025 U ug/L
Heptachlor Epoxide	< 0.025 U ug/L
Methoxychlor	< 0.25 U ug/L
Technical Chlordane	< 0.25 U ug/L
Toxaphene	< 0.5 U ug/L
1,1,1-Trichloroethane	< 5 U ug/L
1,1,2,2-Tetrachloroethane	< 5 U ug/L

Table 6A Pelham Bay Landfill Leachate A Sample Date April 26, 2006	
Compound of Concern	**Result**
1,1,2-Trichloroethane	< 5 U ug/L
1,1-Dichloroethane	< 5 U ug/L
1,1-Dichloroethene	< 5 U ug/L
1,2-Dichlorobenzene	< 5 U ug/L
1,2-Dichloroethane	< 5 U ug/L
1,2-Dichloroethene (total)	< 5 U ug/L
1,2-Dichloropropane	< 5 U ug/L
1,3-Dichlorobenzene	< 5 U ug/L
1,4-Dichlorobenzene	< 5 U ug/L
2-Butanone (MEK)	< 10 U ug/L
2-Chloroethylvinylether	< 5 U ug/L
2-Hexanone	< 10 U ug/L
4-methyl-2-pentanone (MIBK)	< 10 U ug/L
Acetone	2.7 JB ug/L
Benzene	< 5 U ug/L
Bromodichloromethane	< 5 U ug/L
Bromoform	< 5 U ug/L
Bromomethane	< 5 U ug/L
Carbon Disulfide	< 5 U ug/L
Carbon Tetrachloride	< 5 U ug/L
Chlorobenzene	< 5 U ug/L
Chloroethane	< 5 U ug/L
Chloroform	< 5 U ug/L
Chloromethane	< 5 U ug/L
cis-1,3-Dichloropropene	< 5 U ug/L
Dibromochloromethane	< 5 U ug/L
Ethylbenzene	< 5 U ug/L
Methylene Chloride	0.56 J ug/L
Styrene	< 5 U ug/L
Tetrachloroethene	< 5 U ug/L
Toluene	< 5 U ug/L
trans-1,3-Dichloropropene	< 5 U ug/L
Trichloroethene	< 5 U ug/L
Vinyl Acetate	< 5 U ug/L
Vinyl Chloride	< 5 U ug/L
Xylenes (Total)	< 5 U ug/L
1,2,4-Trichlorobenzene	< 10 U ug/L
1,2-Dichlorobenzene	< 10 U ug/L
1,3-Dichlorobenzene	< 10 U ug/L
1,4-Dichlorobenzene	< 10 U ug/L
2,2-oxybis (1-chloropropane)	< 10 U ug/L
2,4,5-Trichlorophenol	< 50 U ug/L
2,4,6-Trichlorophenol	< 10 U ug/L
2,4-Dichlorophenol	< 10 U ug/L
2,4-Dimethylphenol	< 10 U ug/L

Table 6A Pelham Bay Landfill Leachate A Sample Date April 26, 2006	
Compound of Concern	**Result**
2,4-Dinitrophenol	< 50 U ug/L
2,4-Dinitrotoluene	< 10 U ug/L
2,6-Dinitrotoluene	< 10 U ug/L
2-Chloronaphthalene	< 10 U ug/L
2-Chlorophenol	< 10 U ug/L
2-Methylnaphthalene	< 10 U ug/L
2-Methylphenol (o-cresol)	< 10 U ug/L
2-Nitroaniline	< 50 U ug/L
2-Nitrophenol	< 10 U ug/L
3,3-Dichlorobenzidine	< 20 U ug/L
3-Nitroaniline	< 50 U ug/L
4,6-Dinitro-2-methylphenol	< 50 U ug/L
4-Bromophenyl Phenyl Ether	< 10 U ug/L
4-chloro-3-methylphenol	< 10 U ug/L
4-Chloroaniline	< 10 U ug/L
4-Chlorophenyl Phenyl Ether	< 10 U ug/L
4-Methylphenol (m/p-cresol)	< 10 U ug/L
4-Nitroaniline	< 20 U ug/L
4-Nitrophenol	< 50 U ug/L
Acenaphthene	< 10 U ug/L
Acenaphthylene	< 10 U ug/L
Anthracene	< 10 U ug/L
Benzo(a)anthracene	< 10 U ug/L
Benzo(a)pyrene	< 10 U ug/L
Benzo(b)fluoranthene	< 10 U ug/L
Benzo(ghi)perylene	< 10 U ug/L
Benzo(k)fluoranthene	< 10 U ug/L
Benzyl Alcohol	< 10 U ug/L
bis(2-Chloroethoxy)methane	< 10 U ug/L
Bis(2-chloroethyl)ether	< 10 U ug/L
bis(2-Ethylhexyl)phthalate	< 10 U ug/L
Butyl benzyl phthalate	< 10 U ug/L
Chrysene	< 10 U ug/L
Dibenzo(a,h)anthracene	< 10 U ug/L
Dibenzofuran	< 10 U ug/L
Diethyl phthalate	< 10 U ug/L
Dimethyl Phthalate	< 10 U ug/L
Di-n-butyl phthalate	< 10 U ug/L
Di-n-octyl phthalate	< 10 U ug/L
Fluoranthene	< 10 U ug/L
Fluorene	< 10 U ug/L
Hexachlorobenzene	< 10 U ug/L
Hexachlorobutadiene	< 10 U ug/L
Hexachlorocyclopentadiene	< 10 U ug/L
Hexachloroethane	< 10 U ug/L

Table 6A Pelham Bay Landfill Leachate A Sample Date April 26, 2006	
Compound of Concern	**Result**
Indeno(1,2,3-cd)pyrene	< 10 U ug/L
Isophorone	< 10 U ug/L
Naphthalene	< 10 U ug/L
Nitrobenzene	< 10 U ug/L
n-Nitrosodimethylamine	< 10 U ug/L
n-Nitroso-di-n-propylamine	< 10 U ug/L
N-Nitrosodiphenylamine	< 10 U ug/L
Pentachlorophenol	< 50 U ug/L
Phenanthrene	< 10 U ug/L
Phenol	< 10 U ug/L
Pyrene	< 10 U ug/L

Table 6B Pelham Bay Landfill Leachate A Sample Date November 14, 2006		
Compound of Concern	**Result**	
1,1 Dichloroethane	< 1	ug/L
1,1 Dichloroethene	< 1	ug/L
1,2 Dichloroethane	< 1	ug/L
1,2 Dichloroethene	< 2	ug/L
1,2 Dichloropropane	< 1	ug/L
111 Trichloroethane	< 1	ug/L
112 Trichloroethane	< 1	ug/L
1122Tetrachloroethane	< 1	ug/L
2-Butanone	< 10	ug/L
2-Hexanone	< 10	ug/L
4-Methyl-2-Pentanone	< 10	ug/L
Acetone	< 10	ug/L
Benzene	< 1	ug/L
Bromodichloromethane	< 1	ug/L
Bromoform	< 1	ug/L
Bromomethane	< 1	ug/L
c-1,3Dichloropropene	< 1	ug/L
Carbon disulfide	< 1	ug/L
Carbon Tetrachloride	< 1	ug/L
Chlorobenzene	< 1	ug/L
Chlorodibromomethane	< 1	ug/L
Chloroethane	< 1	ug/L
Chloroform	< 1	ug/L
Chloromethane	< 1	ug/L
Ethyl Benzene	< 1	ug/L
m + p Xylene	< 2	ug/L
Methylene Chloride	< 1	ug/L
o Xylene	< 1	ug/L
Styrene	< 1	ug/L
t-1,3Dichloropropene	< 1	ug/L
Tetrachloroethene	< 1	ug/L
Toluene	< 1	ug/L
Trichloroethene	< 1	ug/L
Vinyl Chloride	< 1	ug/L
Xylene	< 3	ug/L
1,2 Dichlorobenzene(sv)	< 2	ug/L
1,3 Dichlorobenzene(sv)	< 2	ug/L
1,4 Dichlorobenzene(sv)	< 2	ug/L
124-Trichlorobenzene (sv)	< 2	ug/L
2,4-Dinitrotoluene	< 2	ug/L
2,6-Dinitrotoluene	< 2	ug/L
2-Chloronaphthalene	< 2	ug/L
2-Methylnaphthalene	< 2	ug/L
2-Nitroaniline	< 2	ug/L
3,3'-Dichlorobenzidine	< 20	ug/L

Table 6B Pelham Bay Landfill Leachate A Sample Date November 14, 2006		
Compound of Concern	**Result**	
3-Nitroaniline	< 2	ug/L
4-Bromophenyl phenyl eth	< 2	ug/L
4-Chloroaniline	< 2	ug/L
4-Chlorophenyl phenyl eth	< 2	ug/L
4-Nitroaniline	< 2	ug/L
Acenaphthene	< 2	ug/L
Acenaphthylene	< 2	ug/L
Anthracene	< 2	ug/L
Benzo(a)anthracene	< 2	ug/L
Benzo(a)pyrene	< 2	ug/L
Benzo(b)fluoranthene	< 2	ug/L
Benzo(ghi)perylene	< 2	ug/L
Benzo(k)fluoranthene	< 2	ug/L
BenzylButylPhthalate	< 2	ug/L
Bis(2-chloroethoxy)methan	< 2	ug/L
Bis(2-chloroethyl)ether	< 2	ug/L
Bis(2-chloroisopropyl)ether	< 2	ug/L
Bis(2-ethylhexyl)phthalate	3.6	ug/L
Carbazole	< 2	ug/L
Chrysene	< 2	ug/L
Di-n-Butyl Phthalate	< 2	ug/L
Di-n-octyl Phthalate	< 2	ug/L
Dibenzo(a,h)anthracene	< 2	ug/L
Dibenzofuran	< 2	ug/L
Diethyl Phthalate	< 2	ug/L
Dimethyl Phthalate	< 2	ug/L
Fluoranthene	< 2	ug/L
Fluorene	< 2	ug/L
Hexachlorobenzene	< 2	ug/L
Hexachlorobutadiene	< 2	ug/L
Hexachlorocyclopentadiene	< 20	ug/L
Hexachloroethane	< 2	ug/L
Indeno(1,2,3-cd)pyrene	< 2	ug/L
Isophorone	< 2	ug/L
N-Nitrosodi-n-propylamine	< 2	ug/L
N-Nitrosodiphenylamine	< 2	ug/L
Naphthalene(sv)	< 2	ug/L
Nitrobenzene	< 2	ug/L
Phenanthrene	< 2	ug/L
Pyrene	< 2	ug/L
2,4,5-Trichlorophenol	< 2	ug/L
2,4,6-Trichlorophenol	< 2	ug/L
2,4-Dichlorophenol	< 2	ug/L
2,4-Dimethylphenol	< 2	ug/L
2,4-Dinitrophenol	< 20	ug/L

Table 6B Pelham Bay Landfill Leachate A Sample Date November 14, 2006		
Compound of Concern	**Result**	
2-Chlorophenol	< 2	ug/L
2-Methyl-4,6-dinitrophenol	< 20	ug/L
2-Methylphenol (o-cresol)	< 2	ug/L
2-Nitrophenol	< 2	ug/L
4-Chloro-3-methylphenol	< 2	ug/L
4-Methylphenol (p-cresol)	< 2	ug/L
4-Nitrophenol	< 20	ug/L
Pentachlorophenol (ms)	< 20	ug/L
Phenol	< 2	ug/L
a BHC	< 0.05	ug/L
Aldrin	< 0.05	ug/L
b BHC	< 0.05	ug/L
Chlordane	< 0.2	ug/L
d BHC	< 0.05	ug/L
Dieldrin	< 0.05	ug/L
Endosulfan 1	< 0.1	ug/L
Endosulfan 2	< 0.1	ug/L
Endosulfan Sulfate	< 0.3	ug/L
Endrin	< 0.05	ug/L
Endrin Aldehyde	< 0.3	ug/L
Endrin Ketone	< 0.1	ug/L
Heptachlor	< 0.05	ug/L
Heptachlor Epoxide	< 0.05	ug/L
Lindane	< 0.05	ug/L
Methoxychlor	< 0.1	ug/L
p,p-DDD	< 0.05	ug/L
p,p-DDE	< 0.05	ug/L
p,p-DDT	< 0.1	ug/L
Toxaphene	< 1	ug/L
Aroclor 1016	< 1	ug/L
Aroclor 1221	< 1	ug/L
Aroclor 1232	< 1	ug/L
Aroclor 1242	< 1	ug/L
Aroclor 1248	< 1	ug/L
Aroclor 1254	< 1	ug/L
Aroclor 1260	< 1	ug/L
Aluminum as Al	0.09	mg/L
Antimony as Sb	< 0.01	mg/L
Arsenic as As	< 0.005	mg/L
Barium as Ba	0.072	mg/L
Beryllium as Be	< 0.001	mg/L
Cadmium as Cd	< 0.005	mg/L
Calcium as Ca	72	mg/L
Chromium as Cr	< 0.005	mg/L
Cobalt as Co	< 0.005	mg/L

Table 6B Pelham Bay Landfill Leachate A Sample Date November 14, 2006		
Compound of Concern	**Result**	
Copper as Cu	0.02	mg/L
Iron as Fe	0.38	mg/L
Lead as Pb	< 0.005	mg/L
Magnesium as Mg	12	mg/L
Manganese as Mn	0.06	mg/L
Mercury as Hg	< 2E-04	mg/L
Nickel as Ni	< 0.01	mg/L
Potassium as K	12	mg/L
Selenium as Se	< 0.004	mg/L
Silver as Ag	< 0.005	mg/L
Sodium as Na	56	mg/L
Thallium as Tl	< 0.005	mg/L
Vanadium as V	< 0.005	mg/L
Zinc as Zn	0.05	mg/L
Cyanide as CN	< 0.02	mg/L

Tables 7A and 7B

Leachate Schedule B Analytical Results

Table 7A Pelham Bay Landfill Leachate B Sample Date April 26, 2006	
Compound of Concern	**Results**
Solids, Total Suspended (TSS)	3.17 mg/L
Mercury (Hg)	< 0.16 U ug/L
Nitrate as N (NO3-N)	4.61 mg/L
TPH, Recoverable	0.935 mg/L
Chemical Oxygen Demand (COD)	53.1 mg/L
Nitrogen, Total Kjeldahl as N (TKN)	13.2 mg/L
Hexavalent Chromium	< 0.01 UN mg/L
Chloride	600 mg/L
Cyanide, Total	< 0.01 U mg/L
pH	7.09 pH Units
Ammonia (NH3), as N	4.3 *N mg/L
Biochemical Oxygen Demand (BOD5)	< 4 U mg/L
Arsenic (As)	< 3.1 UN ug/L
Cadmium (Cd)	< 0.8 U ug/L
Chromium (Cr)	4.2 B ug/L
Copper (Cu)	17.2 B ug/L
Lead (Pb)	< 1.9 U ug/L
Molybdenum (Mo)	11 B ug/L
Nickel (Ni)	3.5 B ug/L
Selenium (Se)	< 3.9 UN ug/L
Zinc (Zn)	29.7 ug/L

Table 7B Pelham Bay Landfill Leachate B Sample Date November 14, 2006		
Compound of Concern	**Result**	
Arsenic as As	< 0.005	mg/L
Cadmium as Cd	< 0.005	mg/L
Chromium as Cr	< 0.005	mg/L
Copper as Cu	0.02	mg/L
Lead as Pb	< 0.005	mg/L
Mercury as Hg	< 2E-04	mg/L
Molybdenum as Mo	< 0.005	mg/L
Nickel as Ni	< 0.01	mg/L
Selenium as Se	< 0.004	mg/L
Zinc as Zn	0.04	mg/L
Ammonia as N	1.4	mg/L
BOD5	3.7	mg/L
Chloride as Cl	59	mg/L
Chromium hex as Cr	< 0.02	mg/L
CN amen.to chlorin.	< 0.02	mg/L
COD	40	mg/L
Nitrate as N	3	mg/L
Non-polar Material	< 5	mg/L
pH (lab) units	7.2	
Tot Suspended Solids	5	mg/L
Tot. Kjeldahl N.	3.8	mg/L

Tables 8A and 8B

Gas Condensate Anlaytical Results

Table 8A Pelham Bay Landfill Gas Condensate Sample Date May 30, 2006		
Compound of Concern	**Results**	
Arsenic (As)	0.0999 B	mg/L
Barium (Ba)	0.0416 N	mg/L
Cadmium (Cd)	< 0.0055 U	mg/L
Chromium (Cr)	< 0.0065 UN	mg/L
Lead (Pb)	< 0.015 U	mg/L
Selenium (Se)	< 0.025 UN	mg/L
Silver (Ag)	< 0.0055 U	mg/L
Mercury (Hg)	< 0.0009 U	mg/L
Endrin	< 0.00013 U	mg/L
gamma-BHC (Lindane)	0.000054 JM	mg/L
Heptachlor	0.000053 JM	mg/L
Heptachlor Epoxide	< 0.000028 U	mg/L
Methoxychlor	< 0.0002 U	mg/L
Technical Chlordane	< 0.00012 U	mg/L
Toxaphene	< 0.0011 U	mg/L
1,1-Dichloroethene	< 0.014 U	mg/L
1,2-Dichloroethane	< 0.012 U	mg/L
2-Butanone (MEK)	1	mg/L
Benzene	< 0.008 U	mg/L
Carbon Tetrachloride	< 0.02 U	mg/L
Chlorobenzene	0.018 J	mg/L
Chloroform	< 0.014 U	mg/L
Tetrachloroethene	< 0.01 U	mg/L
Trichloroethene	< 0.014 U	mg/L
Vinyl Chloride	< 0.016 U	mg/L
1,4-Dichlorobenzene	0.023	mg/L
2,4,5-Trichlorophenol	< 0.002 U	mg/L
2,4,6-Trichlorophenol	< 0.002 U	mg/L
2,4-Dinitrotoluene	< 0.002 U	mg/L
2-Methylphenol (o-cresol)	< 0.001 U	mg/L
4-Methylphenol (m/p-cresol)	< 0.0007 U	mg/L
Hexachlorobenzene	< 0.002 U	mg/L
Hexachlorobutadiene	< 0.002 U	mg/L
Hexachloroethane	< 0.002 U	mg/L
Nitrobenzene	< 0.002 U	mg/L
Pentachlorophenol	< 0.01 U	mg/L
Pyridine	0.071 H	mg/L

Table 8B Pelham Bay Landfill Gas Condensate Sample Date November 14, 2006		
Compound of Concern	**Result**	
1,1 Dichloroethene	< 1	ug/L
1,2 Dichloroethane	< 1	ug/L
1,4 Dichlorobenzene (v)	52	ug/L
Benzene	12	ug/L
Carbon Tetrachloride	< 1	ug/L
Chlorobenzene	29	ug/L
Chloroform	< 1	ug/L
Methyl Ethyl Ketone	1100	ug/L
Tetrachloroethene	< 1	ug/L
Trichloroethene	< 1	ug/L
Vinyl Chloride	< 1	ug/L
2,4-Dinitrotoluene	< 10	ug/L
Hexachlorobenzene	< 10	ug/L
Hexachlorobutadiene	< 10	ug/L
Hexachloroethane	< 10	ug/L
Nitrobenzene	< 10	ug/L
Pyridine	< 100	ug/L
2,4,5-Trichlorophenol	< 10	ug/L
2,4,6-Trichlorophenol	< 10	ug/L
2-Methylphenol (o-cresol)	40	ug/L
3-Methylphenol (m-cresol)	450	ug/L
4-Methylphenol (p-cresol)	450	ug/L
Pentachlorophenol (ms)	< 100	ug/L
Chlordane	< 2	ug/L
Endrin	< 0.5	ug/L
Heptachlor	< 0.5	ug/L
Heptachlor Epoxide	< 0.5	ug/L
Lindane	< 0.5	ug/L
Methoxychlor	< 1	ug/L
Toxaphene	< 10	ug/L
2,4,5-TP	< 0.5	ug/L
2,4-D	< 1	ug/L
Arsenic as As	0.17	mg/L
Barium as Ba	< 0.05	mg/L
Cadmium as Cd	< 0.05	mg/L
Chromium as Cr	< 0.05	mg/L
Lead as Pb	< 0.05	mg/L
Mercury as Hg	< 0.001	mg/L
Selenium as Se	< 0.04	mg/L
Silver as Ag	< 0.05	mg/L
TCLP Extraction		
TCLP Extraction		
TCLP Zero Headspace Extract		

Tables 9A and 9B

Stormwater Monitoring Analytical Results

Table 9A Pelham Bay Landfill Stormwater-1 Sample Date April 26, 2006	
Compound of Concern	**Result**
Mercury (Hg)	< 0.2 U ug/L
Cyanide, Total	< 0.01 U mg/L
Aluminum (Al)	68.8 B ug/L
Antimony (Sb)	< 2.5 U ug/L
Arsenic (As)	< 3.1 UN ug/L
Barium (Ba)	49.4 B ug/L
Beryllium (Be)	< 0.4 U ug/L
Cadmium (Cd)	< 0.8 U ug/L
Calcium (Ca)	146000 ug/L
Chromium (Cr)	2.1 B ug/L
Cobalt (Co)	< 1.9 U ug/L
Copper (Cu)	12.4 B ug/L
Iron (Fe)	358 E ug/L
Lead (Pb)	2.1 B ug/L
Magnesium (Mg)	15300 ug/L
Manganese (Mn)	127 ug/L
Nickel (Ni)	< 2.3 U ug/L
Potassium (K)	9960 ug/L
Selenium (Se)	< 3.9 UN ug/L
Silver (Ag)	2.5 B ug/L
Sodium (Na)	11000 ug/L
Thallium (Tl)	3.4 B ug/L
Vanadium (V)	2.5 B ug/L
Zinc (Zn)	8.4 B ug/L
4,4'-DDD	< 0.05 U ug/L
4,4'-DDE	< 0.05 U ug/L
4,4'-DDT	< 0.05 U ug/L
Aldrin	< 0.025 U ug/L
alpha-BHC	< 0.025 U ug/L
beta-BHC	< 0.025 U ug/L
delta-BHC	< 0.025 U ug/L
Dieldrin	< 0.05 U ug/L
Endosulfan I	< 0.05 U ug/L
Endosulfan II	< 0.05 U ug/L
Endosulfan Sulfate	< 0.05 U ug/L
Endrin	< 0.05 U ug/L
Endrin Aldehyde	< 0.05 U ug/L
gamma-BHC (Lindane)	< 0.025 U ug/L
Heptachlor	< 0.025 U ug/L
Heptachlor Epoxide	< 0.025 U ug/L
Methoxychlor	< 0.25 U ug/L
Technical Chlordane	< 0.25 U ug/L
Toxaphene	< 0.5 U ug/L
1,1,1-Trichloroethane	< 0.4 U ug/L
1,1,2,2-Tetrachloroethane	< 0.4 U ug/L

Table 9A Pelham Bay Landfill Stormwater-1 Sample Date April 26, 2006	
Compound of Concern	**Result**
1,1,2-Trichloroethane	< 0.6 U ug/L
1,1-Dichloroethane	< 0.6 U ug/L
1,1-Dichloroethene	< 0.7 U ug/L
1,2-Dichlorobenzene	< 0.6 U ug/L
1,2-Dichloroethane	< 0.6 U ug/L
1,2-Dichloroethene (total)	< 1 U ug/L
1,2-Dichloropropane	< 0.9 U ug/L
1,3-Dichlorobenzene	< 0.6 U ug/L
1,4-Dichlorobenzene	< 0.5 U ug/L
2-Butanone (MEK)	< 1.2 U ug/L
2-Chloroethylvinylether	< 0.6 U ug/L
2-Hexanone	< 0.8 U ug/L
4-methyl-2-pentanone (MIBK)	< 0.7 U ug/L
Acetone	1.5 JB ug/L
Benzene	< 0.4 U ug/L
Bromodichloromethane	< 0.4 U ug/L
Bromoform	< 0.8 U ug/L
Bromomethane	< 1.2 U ug/L
Carbon Disulfide	< 0.9 U ug/L
Carbon Tetrachloride	< 1 U ug/L
Chlorobenzene	< 0.4 U ug/L
Chloroethane	< 0.8 U ug/L
Chloroform	< 0.7 U ug/L
Chloromethane	< 0.5 U ug/L
cis-1,3-Dichloropropene	< 0.5 U ug/L
Dibromochloromethane	< 0.5 U ug/L
Ethylbenzene	< 1 U ug/L
Methylene Chloride	0.57 J ug/L
Styrene	< 0.5 U ug/L
Tetrachloroethene	< 0.5 U ug/L
Toluene	< 0.3 U ug/L
trans-1,3-Dichloropropene	< 0.8 U ug/L
Trichloroethene	< 0.7 U ug/L
Vinyl Acetate	< 0.2 U ug/L
Vinyl Chloride	< 0.8 U ug/L
Xylenes (Total)	< 1 U ug/L
1,2,4-Trichlorobenzene	< 0.7 U ug/L
1,2-Dichlorobenzene	< 0.7 U ug/L
1,3-Dichlorobenzene	< 0.7 U ug/L
1,4-Dichlorobenzene	< 0.5 U ug/L
2,2-oxybis (1-chloropropane)	< 0.6 U ug/L
2,4,5-Trichlorophenol	< 0.8 U ug/L
2,4,6-Trichlorophenol	< 0.8 U ug/L
2,4-Dichlorophenol	< 0.8 U ug/L
2,4-Dimethylphenol	< 0.7 U ug/L

Table 9A Pelham Bay Landfill Stormwater-1 Sample Date April 26, 2006	
Compound of Concern	**Result**
2,4-Dinitrophenol	< 5 U ug/L
2,4-Dinitrotoluene	< 0.8 U ug/L
2,6-Dinitrotoluene	< 0.6 U ug/L
2-Chloronaphthalene	< 0.7 U ug/L
2-Chlorophenol	< 0.6 U ug/L
2-Methylnaphthalene	< 0.6 U ug/L
2-Methylphenol (o-cresol)	< 0.6 U ug/L
2-Nitroaniline	< 1 U ug/L
2-Nitrophenol	< 0.8 U ug/L
3,3-Dichlorobenzidine	< 1 U ug/L
3-Nitroaniline	< 0.7 U ug/L
4,6-Dinitro-2-methylphenol	< 4 U ug/L
4-Bromophenyl Phenyl Ether	< 0.9 U ug/L
4-chloro-3-methylphenol	< 0.5 U ug/L
4-Chloroaniline	< 0.4 U ug/L
4-Chlorophenyl Phenyl Ether	< 0.8 U ug/L
4-Methylphenol (m/p-cresol)	< 0.3 U ug/L
4-Nitroaniline	< 1 U ug/L
4-Nitrophenol	< 2 U ug/L
Acenaphthene	< 0.8 U ug/L
Acenaphthylene	< 0.8 U ug/L
Anthracene	< 1 U ug/L
Benzo(a)anthracene	< 1 U ug/L
Benzo(a)pyrene	< 1 U ug/L
Benzo(b)fluoranthene	< 2 U ug/L
Benzo(ghi)perylene	< 1 U ug/L
Benzo(k)fluoranthene	< 0.9 U ug/L
Benzyl Alcohol	< 1 U ug/L
bis(2-Chloroethoxy)methane	< 0.5 U ug/L
Bis(2-chloroethyl)ether	< 0.9 U ug/L
bis(2-Ethylhexyl)phthalate	< 1 U ug/L
Butyl benzyl phthalate	< 1 U ug/L
Chrysene	< 1 U ug/L
Dibenzo(a,h)anthracene	< 1 U ug/L
Dibenzofuran	< 0.8 U ug/L
Diethyl phthalate	< 0.8 U ug/L
Dimethyl Phthalate	< 0.6 U ug/L
Di-n-butyl phthalate	< 1 U ug/L
Di-n-octyl phthalate	< 1 U ug/L
Fluoranthene	< 1 U ug/L
Fluorene	< 0.8 U ug/L
Hexachlorobenzene	< 1 U ug/L
Hexachlorobutadiene	< 0.8 U ug/L
Hexachlorocyclopentadiene	< 2 U ug/L
Hexachloroethane	< 1 U ug/L

Table 9A Pelham Bay Landfill Stormwater-1 Sample Date April 26, 2006	
Compound of Concern	**Result**
Indeno(1,2,3-cd)pyrene	< 1 U ug/L
Isophorone	< 0.7 U ug/L
Naphthalene	< 0.7 U ug/L
Nitrobenzene	< 0.8 U ug/L
n-Nitrosodimethylamine	< 0.5 U ug/L
n-Nitroso-di-n-propylamine	< 0.7 U ug/L
N-Nitrosodiphenylamine	< 1 U ug/L
Pentachlorophenol	< 5 U ug/L
Phenanthrene	< 0.7 U ug/L
Phenol	< 0.4 U ug/L
Pyrene	< 1 U ug/L

Table 9B Pelham Bay Landfill Stormwater-1 Sample Date November 14, 2006		
Compound of Concern	**Result**	
1,1 Dichloroethane	< 1	ug/L
1,1 Dichloroethene	< 1	ug/L
1,2 Dichloroethane	< 1	ug/L
1,2 Dichloroethene	< 2	ug/L
1,2 Dichloropropane	< 1	ug/L
111 Trichloroethane	< 1	ug/L
112 Trichloroethane	< 1	ug/L
1122Tetrachloroethane	< 1	ug/L
2-Butanone	< 10	ug/L
2-Hexanone	< 10	ug/L
4-Methyl-2-Pentanone	< 10	ug/L
Acetone	< 10	ug/L
Benzene	< 1	ug/L
Bromodichloromethane	< 1	ug/L
Bromoform	< 1	ug/L
Bromomethane	< 1	ug/L
c-1,3Dichloropropene	< 1	ug/L
Carbon disulfide	< 1	ug/L
Carbon Tetrachloride	< 1	ug/L
Chlorobenzene	< 1	ug/L
Chlorodibromomethane	< 1	ug/L
Chloroethane	< 1	ug/L
Chloroform	< 1	ug/L
Chloromethane	< 1	ug/L
Ethyl Benzene	< 1	ug/L
m + p Xylene	< 2	ug/L
Methylene Chloride	< 1	ug/L
o Xylene	< 1	ug/L
Styrene	< 1	ug/L
t-1,3Dichloropropene	< 1	ug/L
Tetrachloroethene	< 1	ug/L
Toluene	< 1	ug/L
Trichloroethene	< 1	ug/L
Vinyl Chloride	< 1	ug/L
Xylene	< 3	ug/L
1,2 Dichlorobenzene(sv)	< 2	ug/L
1,3 Dichlorobenzene(sv)	< 2	ug/L
1,4 Dichlorobenzene(sv)	< 2	ug/L
124-Trichlorobenzene (sv)	< 2	ug/L
2,4-Dinitrotoluene	< 2	ug/L
2,6-Dinitrotoluene	< 2	ug/L
2-Chloronaphthalene	< 2	ug/L
2-Methylnaphthalene	< 2	ug/L
2-Nitroaniline	< 2	ug/L
3,3'-Dichlorobenzidine	< 20	ug/L

Table 9B Pelham Bay Landfill Stormwater-1 Sample Date November 14, 2006		
Compound of Concern	**Result**	
3-Nitroaniline	< 2	ug/L
4-Bromophenyl phenyl eth	< 2	ug/L
4-Chloroaniline	< 2	ug/L
4-Chlorophenyl phenyl eth	< 2	ug/L
4-Nitroaniline	< 2	ug/L
Acenaphthene	< 2	ug/L
Acenaphthylene	< 2	ug/L
Anthracene	< 2	ug/L
Benzo(a)anthracene	< 2	ug/L
Benzo(a)pyrene	< 2	ug/L
Benzo(b)fluoranthene	< 2	ug/L
Benzo(ghi)perylene	< 2	ug/L
Benzo(k)fluoranthene	< 2	ug/L
BenzylButylPhthalate	< 2	ug/L
Bis(2-chloroethoxy)methan	< 2	ug/L
Bis(2-chloroethyl)ether	< 2	ug/L
Bis(2-chloroisopropyl)ether	< 2	ug/L
Bis(2-ethylhexyl)phthalate	< 2	ug/L
Carbazole	< 2	ug/L
Chrysene	< 2	ug/L
Di-n-Butyl Phthalate	< 2	ug/L
Di-n-octyl Phthalate	< 2	ug/L
Dibenzo(a,h)anthracene	< 2	ug/L
Dibenzofuran	< 2	ug/L
Diethyl Phthalate	< 2	ug/L
Dimethyl Phthalate	< 2	ug/L
Fluoranthene	< 2	ug/L
Fluorene	< 2	ug/L
Hexachlorobenzene	< 2	ug/L
Hexachlorobutadiene	< 2	ug/L
Hexachlorocyclopentadiene	< 20	ug/L
Hexachloroethane	< 2	ug/L
Indeno(1,2,3-cd)pyrene	< 2	ug/L
Isophorone	< 2	ug/L
N-Nitrosodi-n-propylamine	< 2	ug/L
N-Nitrosodiphenylamine	< 2	ug/L
Naphthalene(sv)	< 2	ug/L
Nitrobenzene	< 2	ug/L
Phenanthrene	< 2	ug/L
Pyrene	< 2	ug/L
2,4,5-Trichlorophenol	< 2	ug/L
2,4,6-Trichlorophenol	< 2	ug/L
2,4-Dichlorophenol	< 2	ug/L
2,4-Dimethylphenol	< 2	ug/L
2,4-Dinitrophenol	< 20	ug/L

Table 9B Pelham Bay Landfill Stormwater-1 Sample Date November 14, 2006		
Compound of Concern	**Result**	
2-Chlorophenol	< 2	ug/L
2-Methyl-4,6-dinitrophenol	< 20	ug/L
2-Methylphenol (o-cresol)	< 2	ug/L
2-Nitrophenol	< 2	ug/L
4-Chloro-3-methylphenol	< 2	ug/L
4-Methylphenol (p-cresol)	< 2	ug/L
4-Nitrophenol	< 20	ug/L
Pentachlorophenol (ms)	< 20	ug/L
Phenol	< 2	ug/L
a BHC	< 0.05	ug/L
Aldrin	< 0.05	ug/L
b BHC	< 0.05	ug/L
Chlordane	< 0.2	ug/L
d BHC	< 0.05	ug/L
Dieldrin	< 0.05	ug/L
Endosulfan 1	< 0.1	ug/L
Endosulfan 2	< 0.1	ug/L
Endosulfan Sulfate	< 0.3	ug/L
Endrin	< 0.05	ug/L
Endrin Aldehyde	< 0.3	ug/L
Endrin Ketone	< 0.1	ug/L
Heptachlor	< 0.05	ug/L
Heptachlor Epoxide	< 0.05	ug/L
Lindane	< 0.05	ug/L
Methoxychlor	< 0.1	ug/L
p,p-DDD	< 0.05	ug/L
p,p-DDE	< 0.05	ug/L
p,p-DDT	< 0.1	ug/L
Toxaphene	< 1	ug/L
Aroclor 1016	< 1	ug/L
Aroclor 1221	< 1	ug/L
Aroclor 1232	< 1	ug/L
Aroclor 1242	< 1	ug/L
Aroclor 1248	< 1	ug/L
Aroclor 1254	< 1	ug/L
Aroclor 1260	< 1	ug/L
Aluminum as Al	0.01	mg/L
Antimony as Sb	< 0.01	mg/L
Arsenic as As	< 0.025	mg/L
Barium as Ba	0.074	mg/L
Beryllium as Be	< 0.001	mg/L
Cadmium as Cd	< 0.005	mg/L
Calcium as Ca	170	mg/L
Chromium as Cr	< 0.005	mg/L
Cobalt as Co	< 0.005	mg/L

Table 9B Pelham Bay Landfill Stormwater-1 Sample Date November 14, 2006		
Compound of Concern	**Result**	
Copper as Cu	0.01	mg/L
Iron as Fe	0.12	mg/L
Lead as Pb	< 0.005	mg/L
Magnesium as Mg	18	mg/L
Manganese as Mn	0.05	mg/L
Mercury as Hg	< 2E-04	mg/L
Nickel as Ni	< 0.01	mg/L
Potassium as K	13	mg/L
Selenium as Se	< 0.004	mg/L
Silver as Ag	< 0.005	mg/L
Sodium as Na	13	mg/L
Thallium as Tl	< 0.005	mg/L
Vanadium as V	< 0.005	mg/L
Zinc as Zn	0.02	mg/L
Cyanide as CN	< 0.02	mg/L

Table 9B Pelham Bay Landfill Stormwater-2 Sample Date November 14, 2006		
Compound of Concern	**Result**	
1,1 Dichloroethane	< 1	ug/L
1,1 Dichloroethene	< 1	ug/L
1,2 Dichloroethane	< 1	ug/L
1,2 Dichloroethene	< 2	ug/L
1,2 Dichloropropane	< 1	ug/L
111 Trichloroethane	< 1	ug/L
112 Trichloroethane	< 1	ug/L
1122Tetrachloroethane	< 1	ug/L
2-Butanone	< 10	ug/L
2-Hexanone	< 10	ug/L
4-Methyl-2-Pentanone	< 10	ug/L
Acetone	< 10	ug/L
Benzene	< 1	ug/L
Bromodichloromethane	< 1	ug/L
Bromoform	< 1	ug/L
Bromomethane	< 1	ug/L
c-1,3Dichloropropene	< 1	ug/L
Carbon disulfide	< 1	ug/L
Carbon Tetrachloride	< 1	ug/L
Chlorobenzene	< 1	ug/L
Chlorodibromomethane	< 1	ug/L
Chloroethane	< 1	ug/L
Chloroform	< 1	ug/L
Chloromethane	< 1	ug/L
Ethyl Benzene	< 1	ug/L
m + p Xylene	< 2	ug/L
Methylene Chloride	< 1	ug/L
o Xylene	< 1	ug/L
Styrene	< 1	ug/L
t-1,3Dichloropropene	< 1	ug/L
Tetrachloroethene	< 1	ug/L
Toluene	< 1	ug/L
Trichloroethene	< 1	ug/L
Vinyl Chloride	< 1	ug/L
Xylene	< 3	ug/L
1,2 Dichlorobenzene(sv)	< 2	ug/L
1,3 Dichlorobenzene(sv)	< 2	ug/L
1,4 Dichlorobenzene(sv)	< 2	ug/L
124-Trichlorobenzene (sv)	< 2	ug/L
2,4-Dinitrotoluene	< 2	ug/L
2,6-Dinitrotoluene	< 2	ug/L
2-Chloronaphthalene	< 2	ug/L
2-Methylnaphthalene	< 2	ug/L
2-Nitroaniline	< 2	ug/L
3,3'-Dichlorobenzidine	< 20	ug/L

Table 9B Pelham Bay Landfill Stormwater-2 Sample Date November 14, 2006		
Compound of Concern	**Result**	
3-Nitroaniline	< 2	ug/L
4-Bromophenyl phenyl eth	< 2	ug/L
4-Chloroaniline	< 2	ug/L
4-Chlorophenyl phenyl eth	< 2	ug/L
4-Nitroaniline	< 2	ug/L
Acenaphthene	< 2	ug/L
Acenaphthylene	< 2	ug/L
Anthracene	< 2	ug/L
Benzo(a)anthracene	< 2	ug/L
Benzo(a)pyrene	< 2	ug/L
Benzo(b)fluoranthene	< 2	ug/L
Benzo(ghi)perylene	< 2	ug/L
Benzo(k)fluoranthene	< 2	ug/L
BenzylButylPhthalate	< 2	ug/L
Bis(2-chloroethoxy)methan	< 2	ug/L
Bis(2-chloroethyl)ether	< 2	ug/L
Bis(2-chloroisopropyl)ether	< 2	ug/L
Bis(2-ethylhexyl)phthalate	5.3	ug/L
Carbazole	< 2	ug/L
Chrysene	< 2	ug/L
Di-n-Butyl Phthalate	< 2	ug/L
Di-n-octyl Phthalate	< 2	ug/L
Dibenzo(a,h)anthracene	< 2	ug/L
Dibenzofuran	< 2	ug/L
Diethyl Phthalate	< 2	ug/L
Dimethyl Phthalate	< 2	ug/L
Fluoranthene	< 2	ug/L
Fluorene	< 2	ug/L
Hexachlorobenzene	< 2	ug/L
Hexachlorobutadiene	< 2	ug/L
Hexachlorocyclopentadiene	< 20	ug/L
Hexachloroethane	< 2	ug/L
Indeno(1,2,3-cd)pyrene	< 2	ug/L
Isophorone	< 2	ug/L
N-Nitrosodi-n-propylamine	< 2	ug/L
N-Nitrosodiphenylamine	< 2	ug/L
Naphthalene(sv)	< 2	ug/L
Nitrobenzene	< 2	ug/L
Phenanthrene	< 2	ug/L
Pyrene	< 2	ug/L
2,4,5-Trichlorophenol	< 2	ug/L
2,4,6-Trichlorophenol	< 2	ug/L
2,4-Dichlorophenol	< 2	ug/L
2,4-Dimethylphenol	< 2	ug/L
2,4-Dinitrophenol	< 20	ug/L

Table 9B Pelham Bay Landfill Stormwater-2 Sample Date November 14, 2006		
Compound of Concern	**Result**	
2-Chlorophenol	< 2	ug/L
2-Methyl-4,6-dinitrophenol	< 20	ug/L
2-Methylphenol (o-cresol)	< 2	ug/L
2-Nitrophenol	< 2	ug/L
4-Chloro-3-methylphenol	< 2	ug/L
4-Methylphenol (p-cresol)	< 2	ug/L
4-Nitrophenol	< 20	ug/L
Pentachlorophenol (ms)	< 20	ug/L
Phenol	< 2	ug/L
a BHC	< 0.05	ug/L
Aldrin	< 0.05	ug/L
b BHC	< 0.05	ug/L
Chlordane	< 0.2	ug/L
d BHC	< 0.05	ug/L
Dieldrin	< 0.05	ug/L
Endosulfan 1	< 0.1	ug/L
Endosulfan 2	< 0.1	ug/L
Endosulfan Sulfate	< 0.3	ug/L
Endrin	< 0.05	ug/L
Endrin Aldehyde	< 0.3	ug/L
Endrin Ketone	< 0.1	ug/L
Heptachlor	< 0.05	ug/L
Heptachlor Epoxide	< 0.05	ug/L
Lindane	< 0.05	ug/L
Methoxychlor	< 0.1	ug/L
p,p-DDD	< 0.05	ug/L
p,p-DDE	< 0.05	ug/L
p,p-DDT	< 0.1	ug/L
Toxaphene	< 1	ug/L
Aroclor 1016	< 1	ug/L
Aroclor 1221	< 1	ug/L
Aroclor 1232	< 1	ug/L
Aroclor 1242	< 1	ug/L
Aroclor 1248	< 1	ug/L
Aroclor 1254	< 1	ug/L
Aroclor 1260	< 1	ug/L
Aluminum as Al	0.02	mg/L
Antimony as Sb	< 0.01	mg/L
Arsenic as As	< 0.025	mg/L
Barium as Ba	0.11	mg/L
Beryllium as Be	< 0.001	mg/L
Cadmium as Cd	< 0.005	mg/L
Calcium as Ca	180	mg/L
Chromium as Cr	< 0.005	mg/L
Cobalt as Co	< 0.005	mg/L

Table 9B Pelham Bay Landfill Stormwater-2 Sample Date November 14, 2006		
Compound of Concern	**Result**	
Copper as Cu	0.02	mg/L
Iron as Fe	0.05	mg/L
Lead as Pb	< 0.005	mg/L
Magnesium as Mg	21	mg/L
Manganese as Mn	0.12	mg/L
Mercury as Hg	< 2E-04	mg/L
Nickel as Ni	< 0.01	mg/L
Potassium as K	14	mg/L
Selenium as Se	< 0.004	mg/L
Silver as Ag	< 0.005	mg/L
Sodium as Na	16	mg/L
Thallium as Tl	< 0.005	mg/L
Vanadium as V	< 0.005	mg/L
Zinc as Zn	0.03	mg/L
Cyanide as CN	< 0.02	mg/L