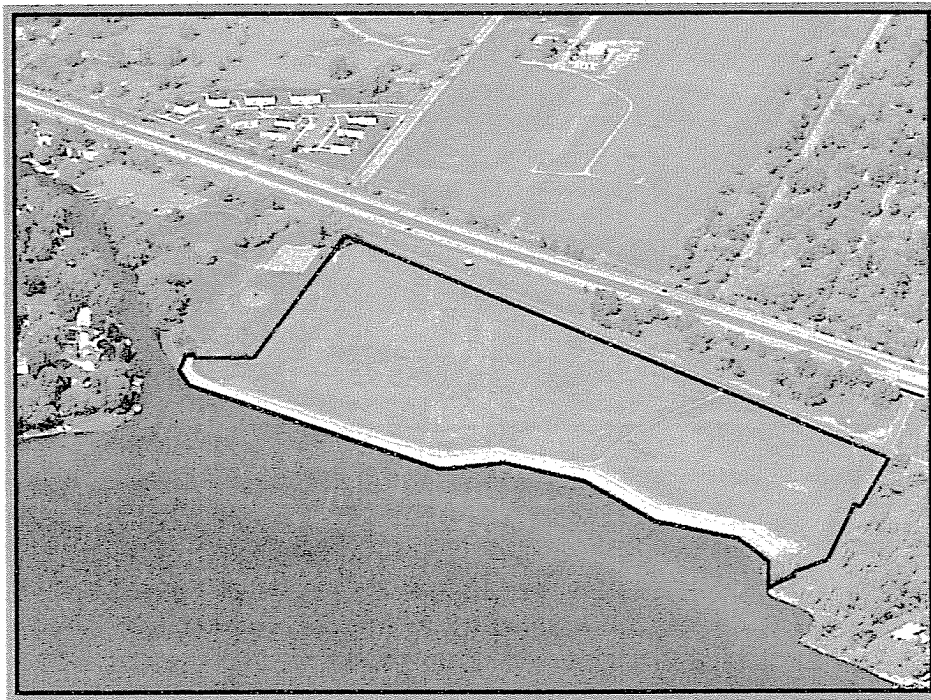


102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

ANNUAL REPORT 2005

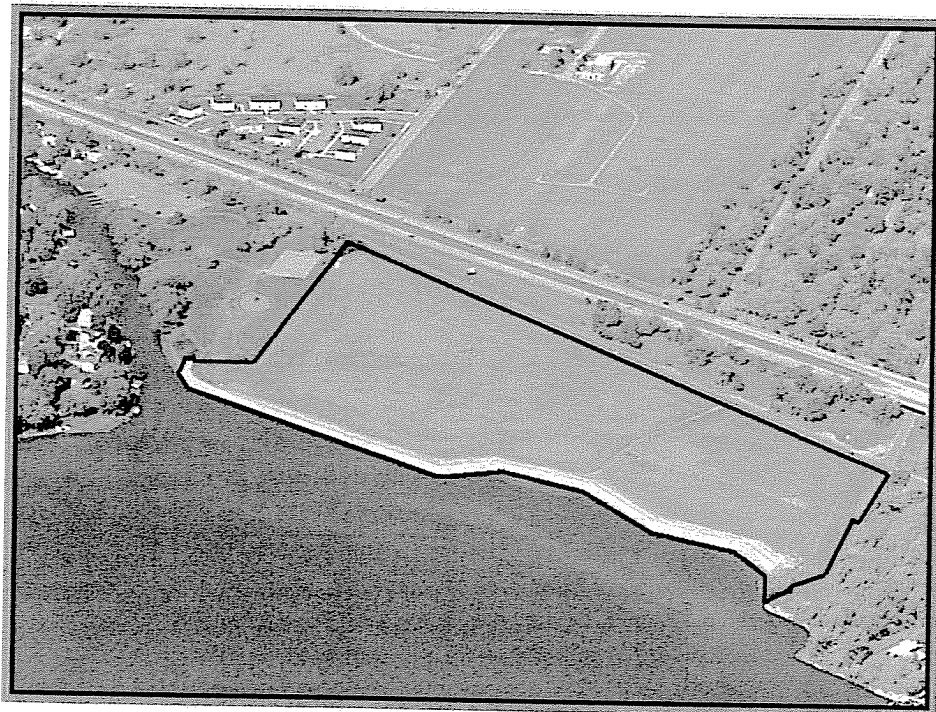
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Miller Springs Remediation Management, Inc. and Olin Corporation

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

ANNUAL REPORT 2005



Miller Springs Remediation Management, Inc. and Olin Corporation

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EXECUTIVE SUMMARY

The following report describes the Operation and Maintenance (O&M) activities for 2005 for the 102nd Street Landfill Site (Site) located in Niagara Falls, New York. The Site covers approximately 22.1 acres and consists of two separate properties owned by Occidental Chemical Corporation (OxyChem) (15.6 acres) and Olin Corporation (6.5 acres). Both OxyChem's and Olin's responsibilities at the Site are currently handled by Miller Springs Remediation Management, Inc. (MSRM), an affiliate of OxyChem.

During 2005, the Remedial Action System Components (RASC) at 102nd Street performed well. The leachate collection system removed 408,329 gallons of Aqueous Phase Leachate (APL) from the site. Water level monitoring showed that an inward gradient was maintained for 100% of the time at nine of the well pairs. Only one well pair (PCM-07/PZ-07) on the north side of the site indicated that an inward gradient was not being maintained (three of the four monitoring events) in that location. However, analytical results indicate no site parameters above the survey levels (Site base line guidance values from Table 2.1 of the Site O&M Manual, 2001) outside of the slurry wall at PCM-07.

It should also be noted that the Buffalo Avenue storm sewer immediately adjacent to PCM-07 has an invert elevation of 563.5 above mean sea level (AMSL) which is below the average water level in PCM-07 (approximately 565 AMSL). It is possible that groundwater infiltration into the sewer at this location is depressing the groundwater elevations outside of the slurry wall.

In 2005, 18,153 gallons of Non-Aqueous Phase Leachate (NAPL) were recovered from the Site NAPL Recovery Wells. The recovered NAPL was then sent to an off Site incinerator (CleanHarbors Deer Park, TX) for final destruction.

1.0 INTRODUCTION

This report describes the Operation and Maintenance (O&M) Activities for 2005 for the 102nd Street Landfill Site (Site) located in Niagara Falls, New York. The Site covers approximately 22.1 acres and consists of two separate properties owned by Occidental Chemical Corporation (15.6 acres) and Olin Corporation (6.5 acres). The Site is bordered by the Niagara River to the south, Buffalo Avenue to the north, Griffon Park to the west, and privately owned land to the east. A perimeter fence restricts Site access. Authorized vehicular traffic access is provided from Buffalo Avenue by fence gates.



The RASC at the Site that have associated O&M activities are as follows (see figure 1 for the site layout):

- a landfill cap;
- a perimeter slurry wall;
- an aqueous phase liquid (APL) collection and discharge system;
- a non-aqueous phase liquid (NAPL) recovery system;
- post-RA system performance monitoring; and
- a perimeter fence.

Remedial construction at the site was completed in 1999 and groundwater pumping began in March of the same year.

The Final Close Out Report for the site was issued on August 13, 1999 and comments were received on July 11, 2000. Final responses to the comments were submitted to the agencies on September 22, 2000.

Final revisions to the Operations and Maintenance Manual were submitted to the agencies on August 17, 2001 and final approval of the manual was received on October 24, 2001.

The Certificate of Completion for the site was submitted to the agencies on January 14, 2002 and was accepted by the agencies on March 13, 2002, signifying that all remedial work had been completed. As a result, the formal initiation of O&M for the site occurred in April 2002.

This report is the fourth Annual Report for the Site, covering all O&M activities for the calendar year of 2005.

2.0 MONITORING AND TESTING

2.1 MONITORING PLAN

2.1.1 WATER LEVEL MONITORING

Water levels in the piezometers and monitoring wells were measured quarterly throughout 2005 in accordance with the O&M Plan.

Water level data have been converted to elevations and are listed on the Annual Report Forms, in *Appendix A*. The data for 2002 through 2005 have also been graphed to show the groundwater elevation trends. Graphs are also included in *Appendix A*. Additionally *Table 2.1* shows the elevations for each of the pairings and the gradients achieved for the quarterly events throughout the year.

The hydraulic monitoring program currently consists of quarterly measurements of water levels in 20 monitoring wells located outside (10, PCM series) and inside (10, PZ series) of the area enclosed by the slurry wall. Listed below are the pairings that are used to monitor the gradients inside and outside of the slurry wall.

| <u>Pair</u> | <u>Outside</u> | <u>Inside</u> | <u>Location</u> |
|-------------|----------------|---------------|-----------------|
| 1 | PCM-01 | PZ-01 | West Side |
| 2 | PCM-02 | PZ-02 | Southwest Side |
| 3 | PCM-03 | PZ-03 | South Side |
| 4 | PCM-04 | PZ-04 | South Side |
| 5 | PCM-05 | PZ-05 | Southeast Side |
| 6 | PCM-06 | PZ-06 | Northeast Side |
| 7 | PCM-07 | PZ-07 | North Side |
| 8 | PCM-08 | PZ-08 | North Side |
| 9 | PCM-09 | PZ-09 | North Side |
| 10 | PCM-10 | PZ-10 | Northwest Side |

Inward gradients towards the landfill were prevalent at the following well pairs:

- West side pairs 1 and 2 showed inward gradients during all monitoring events.
- East side of the site, well pair 6 showed a consistent inward gradient for all monitoring events.
- South side of the site, along the Niagara River, well pairs 3 and 5 consistently showed an inward gradient.
- North side of the site, along Buffalo Avenue, well pair 8 showed an inward gradient for all the monitoring events; well pair 7 showed an inward gradient for only 1 of the 4 events. The storm sewer immediately adjacent to PCM-07 on Buffalo Avenue is believed to be influencing PCM-07. It appears from the available data that groundwater infiltration into the sewer at this location is depressing the groundwater elevations outside of the slurry wall. Well pair 10

showed an inward gradient for all of the monitoring events throughout the year; well pair 9 while detecting as "Dry" (PZ-9) for three of four events showed an inward gradients throughout the year. For the purposes of graphing, the water level in either PCM-09 or PZ-09 was generally considered to be just below the bottom of the well when monitoring indicated the well was "Dry".

Wells PZ-08 and PZ-09 along the Northern side of the Site have detected "Dry" three of the four monitoring events. These wells are quite shallow and are presently are equipped with 4' long screens. When constructed, these wells were drilled six (6) inches into the confining layer below the landfill (clay or till). Therefore, the fact that these wells are dry indicates that the overburden above the confining layer has been dewatered and containment in this area is assured.

2.1.2 GROUNDWATER QUALITY MONITORING

The groundwater quality monitoring program consists of ten (10) Overburden Monitoring Wells (OMWS) PCM-01 – PCM-10 and three (3) Bedrock Wells PCBM-01 – PCBM-03 sampled quarterly for the first 2 years, semi-annually for 8 years (*currently under, 2012*) and annually thereafter.

Groundwater quality monitoring events for 2005 occurred semi-annually; June for the first semi-annual event and in October for the second semi-annual event. *Table 2.2* shows the results from both of the monitoring events.

The second sampling event performed in October had some exceptions to the analyses. Extremely poor BHC recoveries were reported for the laboratory control sample (LCS) extracted on November 2, 2005. All four BHC recoveries were below 10 percent. The laboratory does not know the reason for the poor extraction efficiency. The LCS and associated samples were re-extracted with acceptable LCS recoveries, but not until three weeks after the holding time had expired. Therefore, the data from the second extraction was not usable. Efforts will continue to monitor and observe trends to determine any trends in detections, and that we will take steps to ensure good lab practices and accurate analyses in the future.

Based on the original LCS recoveries, all associated non-detect results for the following samples were rejected and detected sample results were qualified as estimated:

PCM-01-1005, PCM-02-1005, PCBM-03-1005, PCM-10-1005 & PCM-07-1005.

Concentrations, which are above survey levels are being monitored and graphed to determine if any of the levels are increasing. To date no substantial increases have been observed. Graphs are attached in Appendix B.

2.1.3 NAPL PRESENCE MONITORING

NAPL presence monitoring of the eight NAPL Recovery (NR) wells (NR-1, NR-2, NR-3, NR-4, NR-5, NR-7, NR-8 and NR-10) began in April 2002 immediately after the EPA approved the Certificate of Completion. Per the O&M Manual, NAPL presence is to be checked each month for the first three months (fulfilled in 2002) and quarterly after. The results of this monitoring are presented in the Annual Report Form, which are attached as part of *Appendix A*.

3.0 OPERATION OF 102ND STREET LANDFILL SYSTEMS

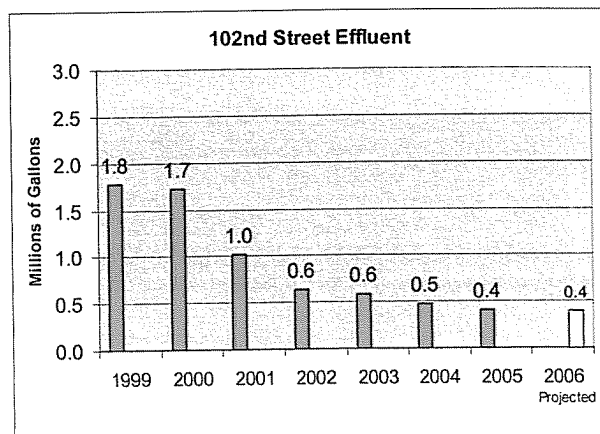
3.1 APL COLLECTION AND DISCHARGE SYSTEM OPERATION

The individual APL pumps in the APL collection wet wells operated throughout 2005 on level control. All well pumps were set to start up at an elevation of 562.1 AMSL (one foot below the average Niagara River water level) and shut down when elevations in the wells reached 561.8 AMSL.

A total of 408,329 gallons of APL were removed from the site and pumped to the Love Canal Treatment Facility (LCTF). There the APL was treated and released to the City of Niagara Falls Sanitary Sewer System. A total of 6.6 million gallons have been recovered from the Site since pumping was initiated in March of 1999.

Listed below are four (4) wet wells and the gallons and percentiles of APL the individual wells had collected on Site for the year.

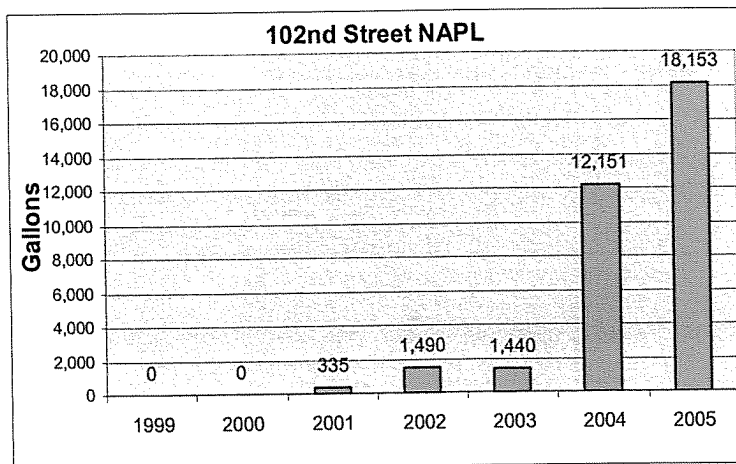
| Well 1 | Well 2 | Well 3 | Well 4 | YTD |
|--------|---------|--------|--------|---------|
| 40,264 | 311,257 | 43,847 | 12,961 | 408,329 |
| 10% | 76% | 11% | 3% | 100% |



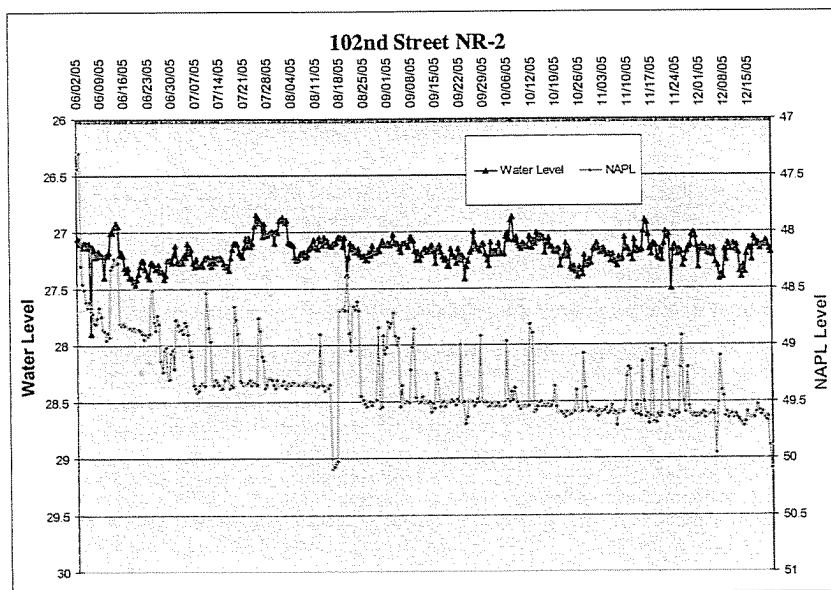
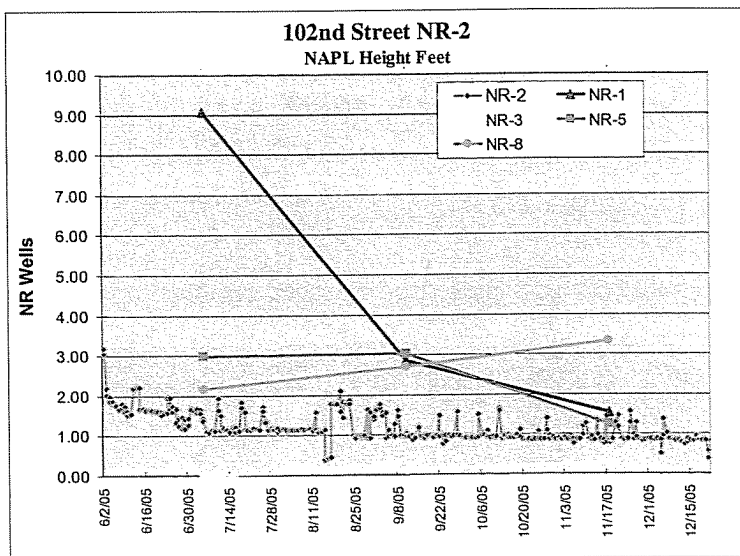
3.2 NAPL RECOVERY

A total of 18,153 gallons (six tanker trailers) of material (NAPL) was removed from the NAPL Recovery Wells at the site in 2005. This material was transported to the Clean Harbors Facility in Deer Park, Texas for incineration. Efforts of NAPL recovery from NR-2 will continue in 2006.

As outlined in the above section 2.1.3 NAPL Presence Monitoring. A concentrated effort was implemented in 2004 to monitor and extract NAPL in the most efficient manner as possible from NAPL Recovery well (NR) NR-2. This was based on the approved work plan "NAPL Extraction Program Work Plan for Accelerated Recovery" submitted to NYSDEC December 2003.



This task was achieved by concentrating on the known quick recharge well NR-02. In 2005, NAPL was recovered continuously from June through December 2005 from NR-02 for a total NAPL recovery of 18,153 gallons. A summary of the NAPL monitoring and the extractions are outlined in *Appendix B*. The table below represents the NAPL recovered from the individual wells from 1999 through 2005.



Additionally presented in chart form are the water levels (depth below grade) versus the levels of NAPL in NR-2 during the Accelerated NAPL Recovery efforts in 2005.

Historical NAPL recoveries from the on Site NAPL Recovery Wells.

NAPL Recovery, Gallons

| | 2001 | 2002 | 2003 | 2004 | 2005 | Totals |
|--------------|------------|--------------|--------------|---------------|---------------|---------------|
| NR-1 | 55 | 0 | 60 | 0 | 0 | 115 |
| NR-2 | 200 | 1,490 | 1,355 | 12,151 | 18,153 | 33,349 |
| NR-3 | 40 | 0 | 0 | 0 | 0 | 40 |
| NR-4 | 0 | 0 | 0 | 0 | 0 | 0 |
| NR-5 | 40 | 0 | 20 | 0 | 0 | 60 |
| NR-7 | 0 | 0 | 0 | 0 | 0 | 0 |
| NR-8 | 0 | 0 | 5 | 0 | 0 | 5 |
| NR-10 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 335 | 1,490 | 1,440 | 12,151 | 18,153 | 33,569 |

4.0 SITE MAINTENANCE AND INSPECTIONS

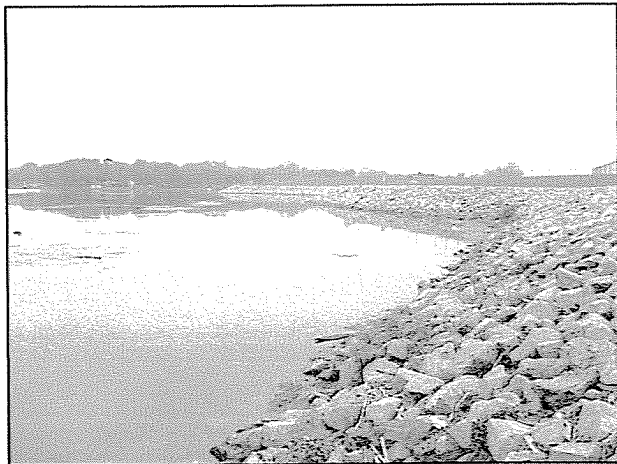
4.1 SITE INSPECTIONS

Semi-Annual Site Inspections were held on April 27 and October 14, 2005 with representatives from NYSDEC, MSRM and CRA. During the October inspection, the NYSDEC recommended that the frequency of Site inspections be changed from Semi-Annual to Annual. Therefore starting in 2006, Site inspections will be performed Annual. The Site inspection will continue to review Remedial Action System Components to ensure the Site's integrity. The inspection will be performed in May of each year in conjunction with the NYSDEC recommendation.

The inspection covered all portions of the landfill remediation including the APL Collection System, APL Discharge System, Landfill Cap, Bulkhead, and Storm Sewer. Items requiring attention that were noted during inspections for the year were as follow:

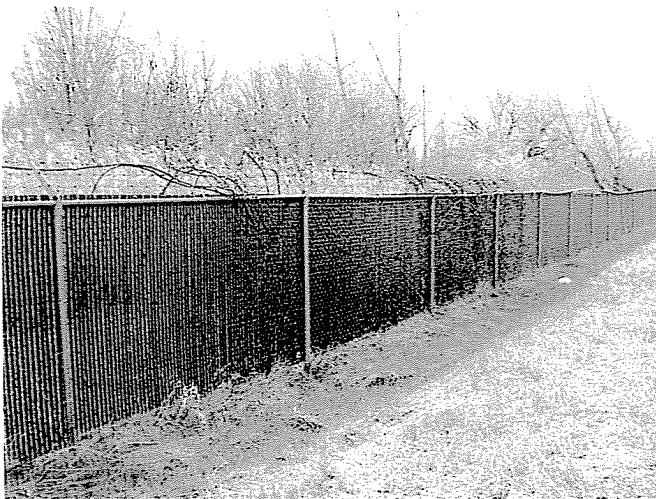
- Repair to fence rail.
- Vines on East fence line.

Repairs were made as described in subsequent MAINTENANCE section of this report.



4.2 MAINTENANCE

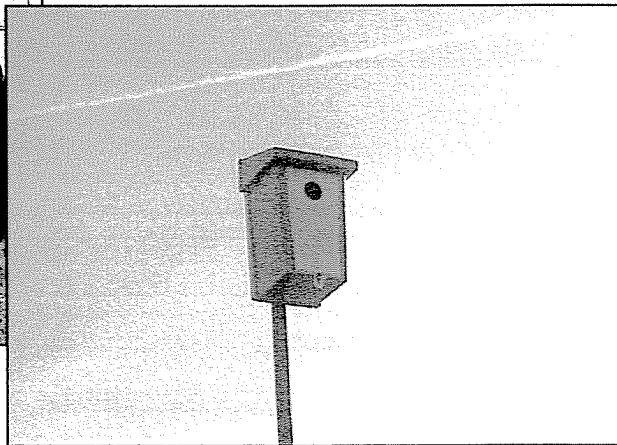
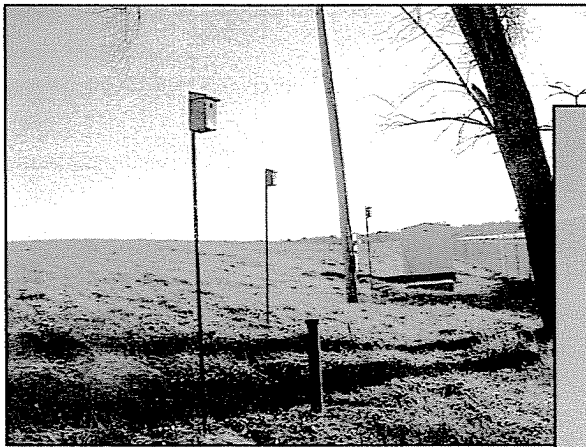
Maintenance included mowing the landfill vegetation to inhibit the growth of woody material and filling of holes found in the soil cover made by burrowing animals. Additional crushed stone was added over access roads on Site. All pumps and on site control equipment were maintained throughout the year with scheduled preventive maintenance to ensure all equipment was functioning correctly. Repairs were made to the fence along the East and North sides of the Site. Repairs generally consisted of refastening the top rail, replace and/or straightening posts and tightening fabric. Additionally vines growing on the fence along the East side of the Site were removed to maintain the fence integrity.



4.3 SITE BEAUTIFICATION / WILDLIFE

In addition to the Site's general upkeep, a concentrated effort to enhance the Site's visual impact and wildlife habitat was completed 2005 in part with the recommendations from the Wildlife Habitat Council. The Wildlife Habitat Council (WHC) is a nonprofit, non-lobbying group of corporations, conservation organizations, and individuals dedicated to restoring and enhancing wildlife habitat. Created in 1988, WHC helps large landowners, particularly corporations, manage their unused lands in an ecologically sensitive manner for the benefit of wildlife.

Enhancements were mainly concentrated along the fence line adjacent to the City of Niagara Falls Park (West Side of Site). Bluebird houses and bat boxes (mosquito's control) were installed at the northern and southern corners of the Site.



Planting of wildflowers along the west fence was completed in 2005. A three-foot strip of soil was prepared by adding top soil and a mixture of perennial wildflower seeds. It is anticipated that this planting will produce a variety of flowering plants that will bloom throughout the season and for the years to come.



FIGURES

USDA/US FOREST SERVICE
 REGIONAL OFFICE
 102nd STREET LANDFILL
 NIAGARA FALLS, NEW YORK

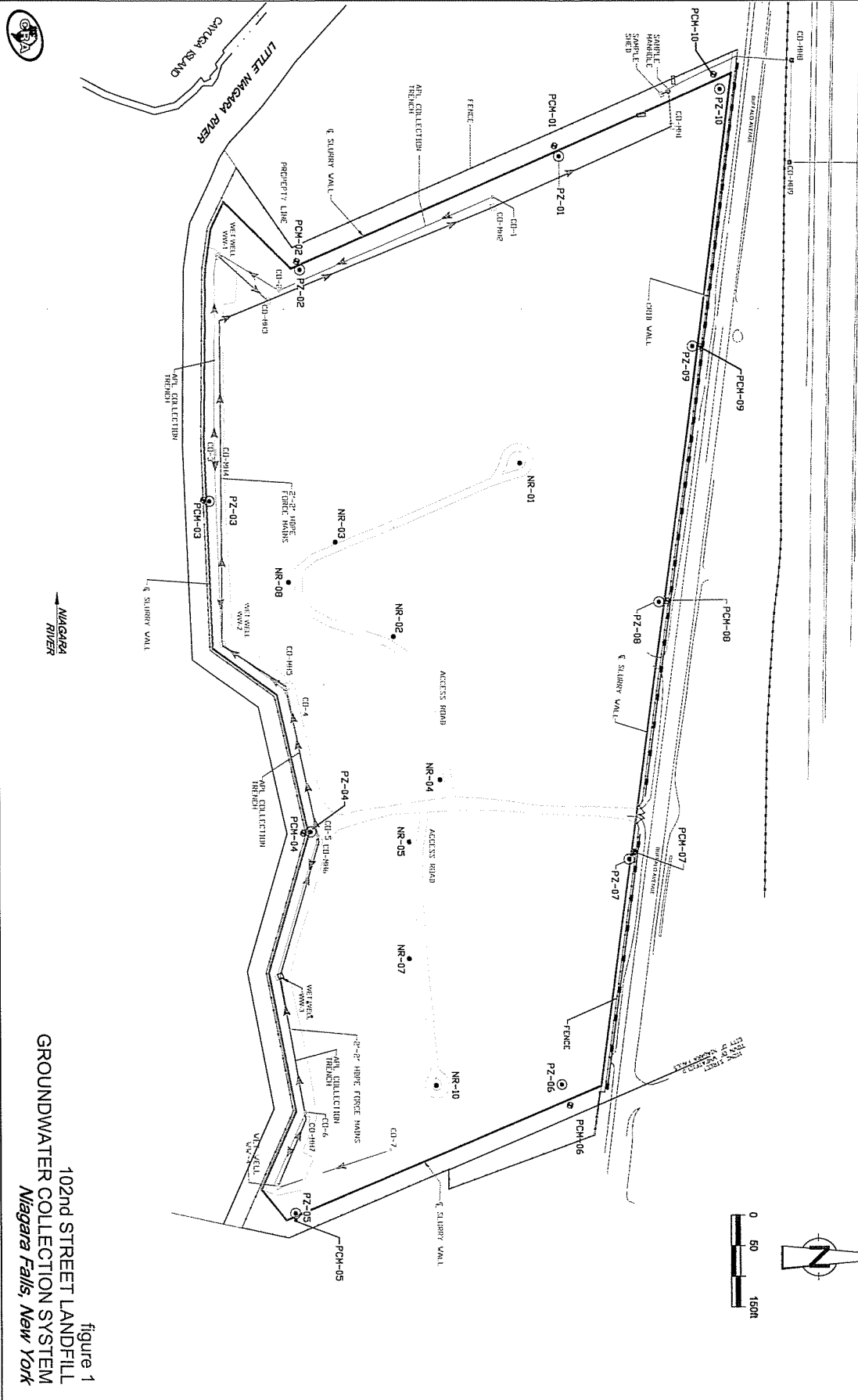


figure 1
 102nd STREET LANDFILL
 GROUNDWATER COLLECTION SYSTEM
 Niagara Falls, New York

01431-000781GN-NF001 DEC 12/2003

TABLES

Table 2.1
102nd Street Site
Gradients PCM Wells (Outside) vs. PZ Wells (Inside) Elevations

| Wells | Elevations | | Depth ft. | 3/31/05 | 5/10/05 | 9/9/05 | 11/3/05 | Inward Gradients |
|-----------|-------------|----------------|--------------|---------|---------|--------|---------|---------------------|
| | TOC AMSL | Bottom AMSL | | | | | | |
| PCM-01 | 578.24 | 549.05 | 29.19 | 566.68 | 567.31 | 566.14 | 566.61 | |
| PZ-01 | 582.21 | 549.64 | 32.57 | 564.27 | 564.18 | 564.19 | 564.01 | |
| Gradients | | | | -2.41 | -3.13 | -1.95 | -2.6 | 4 |
| PCM-02 | 577.24 | 547.9 | 29.34 | 566.09 | 567.01 | 565.84 | 566.46 | |
| PZ-02 | 577.92 | 548.43 | 29.49 | 560.47 | 562.65 | 562.46 | 562.5 | |
| Gradients | | | | -5.62 | -4.36 | -3.38 | -3.96 | 4 |
| PCM-03 | 576.81 | 545.15 | 31.66 | 563.81 | 563.63 | 563.78 | 564.11 | |
| PZ-03 | 576.68 | 545.63 | 31.05 | 561.86 | 562.04 | 561.88 | 561.98 | |
| Gradients | | | | -1.95 | -1.59 | -1.9 | -2.13 | 4 |
| PCM-04 | 575.73 | 545.74 | 29.99 | 563.38 | 563.87 | 563.93 | 563.73 | |
| PZ-04 | 576.96 | 545.63 | 31.33 | 562.77 | 562.61 | 562.58 | 562.61 | |
| Gradients | | | | -0.61 | -1.26 | -1.35 | -1.12 | 4 |
| PCM-05 | 575.93 | 550 | 25.93 | 565.69 | 564.65 | 563.38 | 563.84 | |
| PZ-05 | 576.87 | 550.5 | 26.37 | 562.06 | 561.99 | 561.94 | 561.97 | |
| Gradients | | | | -3.63 | -2.66 | -1.44 | -1.87 | 4 |
| PCM-06 | 580.25 | 566.5 | 13.75 | 568.5 | 568.09 | 569.13 | 569.02 | |
| PZ-06 | 584.66 | 564.05 | 20.61 | 565.68 | 564.86 | 564.91 | 565.08 | |
| Gradients | | | | -2.82 | -3.23 | -4.22 | -3.94 | 4 |
| PCM-07 | 578.8 | 557.63 | 21.17 | 566.56 | 566.63 | 565.57 | 561.86 | |
| PZ-07 | 579.1 | 564.8 | 14.3 | 566.14 | 567.7 | 566.52 | 566.51 | |
| Gradients | | | | -0.42 | 1.07 | 0.95 | 4.65 | 1 |
| PCM-08 | 579.32 | 564.43 | 14.89 | 569.6 | 569.11 | 569.67 | 569.77 | |
| PZ-08 | 580.99 | 565.38 | 15.61 | 566.05 | 566.07 | 565.98 | 565.95 | |
| Gradients | | | | -3.55 | -3.04 | -3.69 | -3.82 | 4 |
| PCM-09 | 578.99 | 567.87 | 11.12 | 572.16 | 571.08 | 570.73 | 570.75 | |
| PZ-09 | 580.67 | 566.28 | 14.39 | 566.42 | 566.45 | 566.33 | 566.33 | |
| Gradients | | | | -5.74 | -4.63 | -4.4 | -4.42 | 4 |
| PCM-10 | 579.4 | 556.39 | 23.01 | 567.82 | 567.47 | 566.04 | 566.73 | |
| PZ-10 | 581.65 | 561.56 | 20.09 | 565.87 | 566.02 | 565.97 | 566.09 | |
| Gradients | | | | -1.95 | -1.45 | -0.07 | -0.64 | 4 |

Notes:

TOC: Top of Casing

Bottom: Elevation at bottom of Well

Dry: No water level detected in well, depth elevation used in place of absent elevation.

Flooded: Water level detected to TOC in well, TOC elevation used in place of absent elevation.

Negative number indicates an inward gradients.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCBM-01 | PCBM-01 | PCBM-01 |
|----------------------------|-----------------------------------|-----------------|------|------------|------------------|------------|--------------|
| | | | | Sample ID: | PCBM-01-605 | PCM-12-605 | PCBM-01-1005 |
| | | | | Date: | 6/21/2005 | 6/21/2005 | 10/18/2005 |
| | | | | | <i>Duplicate</i> | | |
| Volatiles | | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| 2-Chlorotoluene | 5 | 5 | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Benzene | 1 | 5 | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Chlorobenzene | 5 | 5 | µg/L | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| Semi-Volatiles | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10 U | 10 U | 10.0 U |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10 U | 10 U | 10.0 U |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | 10 U | 10.0 U |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | 10 U | 10.0 U |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | 10 U | 10 U |
| Phenol | 1 | 10 | µg/L | 10 U | 10 U | 10 U | 10.0 U |
| Pesticides | | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.013 U | 0.013 U | 0.013 U | 0.063 UJ |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 U | 0.025 U | 0.025 U | 0.13 J |
| delta-BHC | 0.04 | 10 | µg/L | 0.013 U | 0.013 U | 0.013 U | 0.013 U |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.013 U | 0.013 U | 0.013 U | 0.013 U |
| Metals | | | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 U | 10.0 U | 10.0 U | 10.0 U |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCBM-02 | |
|----------------------------|-----------------------------------|-----------------|------|------------|-------------|--------------|
| | | | | Sample ID: | PCBM-02-605 | PCBM-02-1005 |
| | | | | Date: | 6/22/2005 | 10/19/2005 |
| <i>Volatiles</i> | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 0.50 U | 0.50 U | |
| Benzene | 1 | 5 | µg/L | 0.50 U | 0.50 U | |
| Chlorobenzene | 5 | 5 | µg/L | 0.50 U | 0.50 U | |
| <i>Semi-Volatiles</i> | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| Phenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| <i>Pesticides</i> | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.013 U | 0.013 U | |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 U | 0.025 U | |
| delta-BHC | 0.04 | 10 | µg/L | 0.013 U | 0.013 U | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.013 U | 0.013 U | |
| <i>Metals</i> | | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 U | 10.0 U | |

Notes:

- Not Applicable
- BHC Benzene Hexachlororide
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCBM-03 |
|----------------------------|-----------------------------------|-----------------|------|-------------|---------------------------|
| | | | | Sample ID: | PCBM-03 |
| | | | | PCBM-03-605 | PCBM-03-1005 |
| | | | | Date: | 6/27/2005 10/31/2005 |
| <i>Volatiles</i> | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U |
| 2-Chlorotoluene | 5 | 5 | µg/L | 0.26 J | 0.50 U |
| Benzene | 1 | 5 | µg/L | 0.50 U | 0.50 U |
| Chlorobenzene | 5 | 5 | µg/L | 0.50 U | 0.50 U |
| <i>Semi-Volatiles</i> | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U |
| Phenol | 1 | 10 | µg/L | 10 U | 10.0 U |
| <i>Pesticides</i> | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.019 | R |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 U | R |
| delta-BHC | 0.04 | 10 | µg/L | 0.013 U | R |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.012 J | R |
| <i>Metals</i> | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 U | 10.0 U |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-01 | |
|----------------------------|-----------------------------------|-----------------|------|------------|------------|-------------|
| | | | | Sample ID: | PCM-01-605 | PCM-01-1005 |
| | | | | Date: | 6/23/2005 | 10/27/2005 |
| <i>Volatiles</i> | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 0.50 U | 0.19 J | |
| Benzene | 1 | 5 | µg/L | 0.50 U | 0.17 J | |
| Chlorobenzene | 5 | 5 | µg/L | 0.50 U | 0.50 U | |
| <i>Semi-Volatiles</i> | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.5 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.5 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10.5 U | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10.5 U | |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| Phenol | 1 | 10 | µg/L | 10 U | 10.5 U | |
| <i>Pesticides</i> | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.051 J | R | |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 UJ | R | |
| delta-BHC | 0.04 | 10 | µg/L | 0.012 J | R | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.024 J | R | |
| <i>Metals</i> | | | | | | |
| Arsenic | 25 | 50 | µg/L | 5.6 J | 2.6 J | |

Notes:

- Not Applicable
- BHC Benzene Hexachlororide
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-02 | |
|----------------------------|-----------------------------------|-----------------|------|------------|------------|-------------|
| | | | | Sample ID: | PCM-02-605 | PCM-02-1005 |
| | | | | Date: | 6/23/2005 | 10/27/2005 |
| Volatiles | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 0.27 J | 0.15 J | |
| Benzene | 1 | 5 | µg/L | 0.20 J | 0.16 J | |
| Chlorobenzene | 5 | 5 | µg/L | 0.50 U | 0.16 J | |
| Semi-Volatiles | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| Phenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| Pesticides | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.019 J | R | |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 UJ | 0.0074 J | |
| delta-BHC | 0.04 | 10 | µg/L | 0.013 UJ | R | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.0064 J | R | |
| Metals | | | | | | |
| Arsenic | 25 | 50 | µg/L | 7.2 J | 10.0 U | |

Notes:

- Not Applicable
- BHC Benzene Hexachlororide
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-03 | |
|----------------------------|-----------------------------------|-----------------|------|------------|------------|-------------|
| | | | | Sample ID: | PCM-03-605 | PCM-03-1005 |
| | | | | Date: | 6/21/2005 | 10/18/2005 |
| Volatiles | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 36 J | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.22 J | 41 J | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 73 J | 87 J | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 280 | 300 | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 9.5 J | 28 J | |
| Benzene | 1 | 5 | µg/L | 73 J | 61 J | |
| Chlorobenzene | 5 | 5 | µg/L | 4100 | 4000 | |
| Semi-Volatiles | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 11 | 6.62 J | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 21 | 11.4 | |
| 4-Chlorophenol | 1 | 10 | µg/L | 60 | 20 | |
| Phenol | 1 | 10 | µg/L | 0.56 J | 0.628 J | |
| Pesticides | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.026 J | 0.025 U | |
| beta-BHC | 0.04 | 10 | µg/L | 0.34 J | 0.28 | |
| delta-BHC | 0.04 | 10 | µg/L | 0.25 J | 0.44 | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.013 UJ | 0.013 U | |
| Metals | | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 UJ | 10.0 U | |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-04 | PCM-04 | PCM-04 |
|----------------------------|-----------------------------------|-----------------|------|------------|------------|-------------|-------------------------|
| | | | | Sample ID: | PCM-04-605 | PCM-04-1005 | PCM-12-1005 |
| | | | | Date: | 6/22/2005 | 10/19/2005 | 10/19/2005 Duplicate |
| Volatiles | | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 250 U | 13 U | 13 U | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 250 U | 13 U | 13 U | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 250 U | 20 | 21 | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 300 | 250 | 260 | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 250 U | 13 U | 13 U | |
| Benzene | 1 | 5 | µg/L | 140 J | 85 | 86 | |
| Chlorobenzene | 5 | 5 | µg/L | 8600 | 6600 | 8000 | |
| Semi-Volatiles | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U | 10.0 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U | 10.0 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 3.0 J | 1.38 J | 1.36 J | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 20 | 15.6 | 15.0 | |
| 4-Chlorophenol | 1 | 10 | µg/L | 32 | 42 | 32 | |
| Phenol | 1 | 10 | µg/L | 10 U | 10.0 U | 10.0 U | |
| Pesticides | | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.013 U | 0.013 U | 0.013 U | |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 U | 0.025 U | 0.025 U | |
| delta-BHC | 0.04 | 10 | µg/L | 0.05 | 0.035 | 0.035 | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.013 U | 0.013 U | 0.013 U | |
| Metals | | | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 U | 10.0 U | 10.0 U | |

Notes:

- Not Applicable
- BHC Benzene Hexachlororide
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-05 | PCM-05 |
|----------------------------|-----------------------------------|-----------------|------|------------|------------|-------------|
| | | | | Sample ID: | PCM-05-605 | PCM-05-1005 |
| | | | | Date: | 6/20/2005 | 10/20/2005 |
| Volatiles | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 4.2 U | 3.1 U | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 4.2 U | 3.1 U | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 4.2 U | 3.1 U | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 4.2 U | 3.1 U | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 4.2 U | 3.1 U | |
| Benzene | 1 | 5 | µg/L | 7.0 | 3.1 U | |
| Chlorobenzene | 5 | 5 | µg/L | 120 | 77 | |
| Semi-Volatiles | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| Phenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| Pesticides | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.022 | 0.013 U | |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 U | 0.025 U | |
| delta-BHC | 0.04 | 10 | µg/L | 0.011 J | 0.025 | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.015 | 0.013 U | |
| Metals | | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 UJ | 10.0 U | |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-06 |
|----------------------------|-----------------------------------|-----------------|------|-----------------|----------|
| | | | | Sample ID: | PCM-06 |
| | | | | Dry | Dry |
| | | | | Date: 6/23/2005 | Oct-2005 |
| Volatiles | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | - | - |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | - | - |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | - | - |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | - | - |
| 2-Chlorotoluene | 5 | 5 | µg/L | - | - |
| Benzene | 1 | 5 | µg/L | - | - |
| Chlorobenzene | 5 | 5 | µg/L | - | - |
| Semi-Volatiles | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | - | - |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | - | - |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | - | - |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | - | - |
| 2-Chlorophenol | 1 | 10 | µg/L | - | - |
| 4-Chlorophenol | 1 | 10 | µg/L | - | - |
| Phenol | 1 | 10 | µg/L | - | - |
| Pesticides | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | - | - |
| beta-BHC | 0.04 | 10 | µg/L | - | - |
| delta-BHC | 0.04 | 10 | µg/L | - | - |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | - | - |
| Metals | | | | | |
| Arsenic | 25 | 50 | µg/L | - | - |

Notes:

- Not Applicable
- BHC Benzene Hexachlororide
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-07 | |
|----------------------------|-----------------------------------|-----------------|------|------------|------------|-------------|
| | | | | Sample ID: | PCM-07-605 | PCM-07-1005 |
| | | | | Date: | 6/23/2005 | 10/31/2005 |
| Volatiles | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 0.32 J | 0.50 U | |
| Benzene | 1 | 5 | µg/L | 0.50 U | 0.50 U | |
| Chlorobenzene | 5 | 5 | µg/L | 0.50 U | 0.50 U | |
| Semi-Volatiles | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| Phenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| Pesticides | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.055 | R | |
| beta-BHC | 0.04 | 10 | µg/L | 0.025 U | R | |
| delta-BHC | 0.04 | 10 | µg/L | 0.013 U | R | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.024 | R | |
| Metals | | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 U | 10.0 U | |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-08 |
|----------------------------|-----------------------------------|-----------------|------|---|-----------------|
| | | | | Sample ID: | PCM-08 |
| | | | | Dry <th>PCM-08</th> | PCM-08 |
| | | | | Date: 6/23/2005 <th>Dry Oct-2005</th> | Dry Oct-2005 |
| Volatiles | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | - | - |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | - | - |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | - | - |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | - | - |
| 2-Chlorotoluene | 5 | 5 | µg/L | - | - |
| Benzene | 1 | 5 | µg/L | - | - |
| Chlorobenzene | 5 | 5 | µg/L | - | - |
| Semi-Volatiles | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | - | - |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | - | - |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | - | - |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | - | - |
| 2-Chlorophenol | 1 | 10 | µg/L | - | - |
| 4-Chlorophenol | 1 | 10 | µg/L | - | - |
| Phenol | 1 | 10 | µg/L | - | - |
| Pesticides | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | - | - |
| beta-BHC | 0.04 | 10 | µg/L | - | - |
| delta-BHC | 0.04 | 10 | µg/L | - | - |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | - | - |
| Metals | | | | | |
| Arsenic | 25 | 50 | µg/L | - | - |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-09 |
|----------------------------|-----------------------------------|-----------------|------|-------------------|----------|
| | | | | Sample ID: | PCM-09 |
| | | | | Dry <td>Dry </td> | Dry |
| | | | | Date: 6/23/2005 | Oct-2005 |
| Volatiles | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | - | - |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | - | - |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | - | - |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | - | - |
| 2-Chlorotoluene | 5 | 5 | µg/L | - | - |
| Benzene | 1 | 5 | µg/L | - | - |
| Chlorobenzene | 5 | 5 | µg/L | - | - |
| Semi-Volatiles | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | - | - |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | - | - |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | - | - |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | - | - |
| 2-Chlorophenol | 1 | 10 | µg/L | - | - |
| 4-Chlorophenol | 1 | 10 | µg/L | - | - |
| Phenol | 1 | 10 | µg/L | - | - |
| Pesticides | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | - | - |
| beta-BHC | 0.04 | 10 | µg/L | - | - |
| delta-BHC | 0.04 | 10 | µg/L | - | - |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | - | - |
| Metals | | | | | |
| Arsenic | 25 | 50 | µg/L | - | - |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

Table 2.2
102nd Street Site
Historical Analytical Results
Bedrock (PCBM) and Overburden (PCM)

| Parameter | NYSDEC Class GA GW Criteria | Survey Level | Unit | Well | PCM-10 | |
|----------------------------|-----------------------------------|-----------------|------|------------|------------|-------------|
| | | | | Sample ID: | PCM-10-605 | PCM-10-1005 |
| | | | | Date: | 6/23/2005 | 10/31/2005 |
| Volatiles | | | | | | |
| 1,2,3-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2,4-Trichlorobenzene | 5 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,2-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 1,4-Dichlorobenzene | 3 | 10 | µg/L | 0.50 U | 0.50 U | |
| 2-Chlorotoluene | 5 | 5 | µg/L | 0.17 J | 0.11 J | |
| Benzene | 1 | 5 | µg/L | 0.50 U | 0.50 U | |
| Chlorobenzene | 5 | 5 | µg/L | 0.50 U | 0.50 U | |
| Semi-Volatiles | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 5 | 10 | µg/L | 10 U | 10.0 U | |
| 2,4,5-Trichlorophenol | 1 | 50 | µg/L | 10 U | 10.0 U | |
| 2,4-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 2,5-Dichlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| 2-Chlorophenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| 4-Chlorophenol | 1 | 10 | µg/L | 10 U | 10 U | |
| Phenol | 1 | 10 | µg/L | 10 U | 10.0 U | |
| Pesticides | | | | | | |
| alpha-BHC | 0.01 | 10 | µg/L | 0.038 | R | |
| beta-BHC | 0.04 | 10 | µg/L | 0.078 | 0.062 J | |
| delta-BHC | 0.04 | 10 | µg/L | 0.0062 J | R | |
| gamma-BHC (Lindane) | 0.05 | 10 | µg/L | 0.0092 J | R | |
| Metals | | | | | | |
| Arsenic | 25 | 50 | µg/L | 10.0 U | 10.0 U | |

Notes:

- Not Applicable
- BHC Benzene Hexachloride
- J Estimated
- U Non-Detected at associated value.

APPENDIX A

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2005

MONITORING - Water Level Measurements

| Month | Day | Inspector | PCM-01 | PZ-01 | PCM-02 | PZ-02 | PCM-03 | PZ-03 | PCM-04 |
|-----------|-----|-------------|--------|--------|--------|--------|--------|--------|--------|
| January | | | | | | | | | |
| February | | | | | | | | | |
| March | 31 | T. Blackmon | 566.68 | 564.27 | 566.09 | 560.47 | 562.95 | 561.86 | 563.38 |
| April | | | | | | | | | |
| May | 10 | T. Blackmon | 567.31 | 564.18 | 567.01 | 562.65 | 563.63 | 562.04 | 563.87 |
| June | | | | | | | | | |
| July | | | | | | | | | |
| August | | | | | | | | | |
| September | 9 | T. Blackmon | 566.14 | 564.19 | 565.84 | 562.46 | 563.78 | 561.88 | 563.93 |
| October | | | | | | | | | |
| November | 3 | T. Blackmon | 566.61 | 564.01 | 566.46 | 562.5 | 564.11 | 561.98 | 563.73 |
| December | | | | | | | | | |

| Month | Day | Inspector | PZ-04 | PCM-05 | PZ-05 | PCM-06 | PZ-06 | PCM-07 | PZ-07 |
|-----------|-----|-------------|--------|--------|--------|--------|--------|--------|--------|
| January | | | | | | | | | |
| February | | | | | | | | | |
| March | 31 | T. Blackmon | 562.77 | 565.69 | 562.06 | 568.5 | 565.68 | 566.56 | 566.14 |
| April | | | | | | | | | |
| May | 10 | T. Blackmon | 562.61 | 564.65 | 561.99 | 568.09 | 564.86 | 566.63 | 567.70 |
| June | | | | | | | | | |
| July | | | | | | | | | |
| August | | | | | | | | | |
| September | 9 | T. Blackmon | 562.58 | 563.38 | 561.94 | 569.13 | 564.91 | 565.57 | 566.52 |
| October | | | | | | | | | |
| November | 3 | T. Blackmon | 562.61 | 563.84 | 561.97 | 569.02 | 565.08 | 561.86 | 566.51 |
| December | | | | | | | | | |

| Month | Day | Inspector | PCM-08 | PZ-08 | PCM-09 | PZ-09 | PCM-10 | PZ-10 |
|-----------|-----|-------------|--------|--------|--------|--------|--------|--------|
| January | | | | | | | | |
| February | | | | | | | | |
| March | 31 | T. Blackmon | 569.6 | 566.05 | 572.16 | 566.42 | 567.82 | 565.87 |
| April | | | | | | | | |
| May | 10 | T. Blackmon | 569.11 | 566.07 | 571.08 | 566.45 | 567.47 | 566.02 |
| June | | | | | | | | |
| July | | | | | | | | |
| August | | | | | | | | |
| September | 9 | T. Blackmon | 569.67 | 565.98 | 570.73 | 566.33 | 566.04 | 565.97 |
| October | | | | | | | | |
| November | 3 | T. Blackmon | 569.77 | 565.95 | 570.75 | 566.33 | 566.73 | 566.09 |
| December | | | | | | | | |

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2005

GROUNDWATER - Quality Monitoring

| Quarter | Date Sample Taken | Inspector | Comments |
|---------|-------------------------|-------------|-----------------------------|
| 1st | | | |
| 2nd | June 20, 21, 22, 23, 27 | T. Blackmon | Semi-annual sampling event. |
| 3rd | | | |
| 4th | Oct. 18, 19, 20, 27, 31 | T. Blackmon | Semi-annual sampling event. |

Results of analyses are attached.

NAPL PRESENCE - Monitoring

| | Date | Inspector | NR-01 | | NR-02 | | NR-03 | |
|-------------|------------|-------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
| | | | Depth of NAPL (ft) | Gallons Removed | Depth of NAPL (ft) | Gallons Removed | Depth of NAPL (ft) | Gallons Removed |
| 1st Quarter | 03/31/2005 | T. Blackmon | 3.28 | 0 | 3.74 | 0 | 1.72 | 0 |
| 2nd Quarter | 05/10/2005 | T. Blackmon | 9.08 | 0 | 2.92 | 0 | 0.03 | 0 |
| 3rd Quarter | 09/09/2005 | T. Blackmon | 2.86 | 0 | 0.97 | 9575 | 0.13 | 0 |
| 4th Quarter | 11/03/2005 | T. Blackmon | 1.54 | 0 | 0.9 | 8578 | 0.28 | 0 |
| | | | | | | | | |

| | Date | Inspector | NR-04 | | NR-05 | | NR-07 | |
|-------------|------------|-------------|--------------------|-----------------|--------------------|-----------------|--------------------|-----------------|
| | | | Depth of NAPL (ft) | Gallons Removed | Depth of NAPL (ft) | Gallons Removed | Depth of NAPL (ft) | Gallons Removed |
| 1st Quarter | 03/31/2005 | T. Blackmon | 0 | 0 | 3.68 | 0 | 0 | 0 |
| 2nd Quarter | 05/10/2005 | T. Blackmon | 0 | 0 | 2.98 | 0 | 0 | 0 |
| 3rd Quarter | 09/09/2005 | T. Blackmon | 0 | 0 | 3.02 | 0 | 0 | 0 |
| 4th Quarter | 11/03/2005 | T. Blackmon | 0 | 0 | 1.25 | 0 | 0 | 0 |
| | | | | | | | | |

| | Date | Inspector | NR-08 | | NR-10 | |
|-------------|------------|-------------|--------------------|-----------------|--------------------|-----------------|
| | | | Depth of NAPL (ft) | Gallons Removed | Depth of NAPL (ft) | Gallons Removed |
| 1st Quarter | 03/31/2005 | T. Blackmon | 2.58 | 0 | 0 | 0 |
| 2nd Quarter | 05/10/2005 | T. Blackmon | 2.16 | 0 | 0 | 0 |
| 3rd Quarter | 09/09/2005 | T. Blackmon | 2.7 | 0 | 0 | 0 |
| 4th Quarter | 11/03/2005 | T. Blackmon | 3.33 | 0 | 0 | 0 |
| | | | | | | |

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2005

OPERATION

APL COLLECTION AND DISCHARGE SYSTEM

| <i>APL Flow for Previous Year (gallons)</i> | <i>APL Flow for Current Year (gallons)</i> |
|---|--|
| 474,251 | 408,329 |

NAPL REMOVAL SYSTEM

| | <i>NAPL Removed for Previous Year (2003) (gallons)</i> | <i>NAPL Removed for Current Year (2005) (gallons)</i> |
|-------|--|---|
| NR-01 | 0 | 0 |
| NR-02 | 12151 | 18153 |
| NR-03 | 0 | 0 |
| NR-04 | 0 | 0 |
| NR-05 | 0 | 0 |
| NR-07 | 0 | 0 |
| NR-08 | 0 | 0 |
| NR-10 | 0 | 0 |
| Total | 12151 | 18153 |

Where was NAPL treated/disposed?

| | | | |
|----------|---|------|-----------------|
| Facility | <u>Clean Harbors , Deer Park, Texas</u> | Date | <u>06/24/05</u> |
| Facility | <u>Clean Harbors , Deer Park, Texas</u> | Date | <u>06/19/05</u> |
| Facility | <u>Clean Harbors , Deer Park, Texas</u> | Date | <u>08/29/05</u> |
| Facility | <u>Clean Harbors , Deer Park, Texas</u> | Date | <u>10/04/05</u> |
| Facility | <u>Clean Harbors , Deer Park, Texas</u> | Date | <u>11/14/05</u> |
| Facility | <u>Clean Harbors , Deer Park, Texas</u> | Date | <u>12/21/05</u> |

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT
102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2005

INSPECTION AND MAINTENANCE

Scheduled inspections performed:

| | <i>Date</i> | <i>Inspectors</i> |
|---------|-------------|--|
| April | <u>27</u> | B. Downie (MSRMI), S. Parkhill (MSRMI), J. Konsella (DEC), B. Sadowski (DEC), J. Thornton (CRA), |
| October | <u>14</u> | B. Downie (MSRMI), B. Sadowski (DEC), J. Thornton (CRA), |

Was maintenance required?

| | <i>Yes</i> | <i>No</i> |
|---------|-------------------------------------|-------------------------------------|
| April | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| October | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

What maintenance was required? Fence repair.

| Maintenance Required | Date Performed |
|----------------------|-----------------|
| Fence was repaired. | <u>10/21/05</u> |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Attach additional sheets as necessary.

Describe any maintenance activity that required an activity specific work plan and health and safety plan.

Form Completed By:

Brian Downie

NAME



Brian Downie

SIGNATURE

01/18/06

DATE

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2005

Send completed copies of this form to the following for review:

Don McLeod
Glenn Springs Holdings, Inc.
2480 Fortune Drive, Suite 300
Lexington, KY 40509

and

Lorraine Miller
Olin Corporation
P.O. Box 248
1186 Lower River Road
Charleston, TN 37310

and

Mike Bellotti
Olin Corporation
P.O. Box 248
1186 Lower River Road
Charleston, TN 37310

After review is complete, send 5 copies to the following:

Chief-New York Remedial Branch
Emergency and Remedial Response Division
U.S. Environmental Protection Agency - Region II
290 Broadway, 20th Floor
New York, NY 10007-1866
Attn: 102nd Street Landfill Superfund Site Manager

and

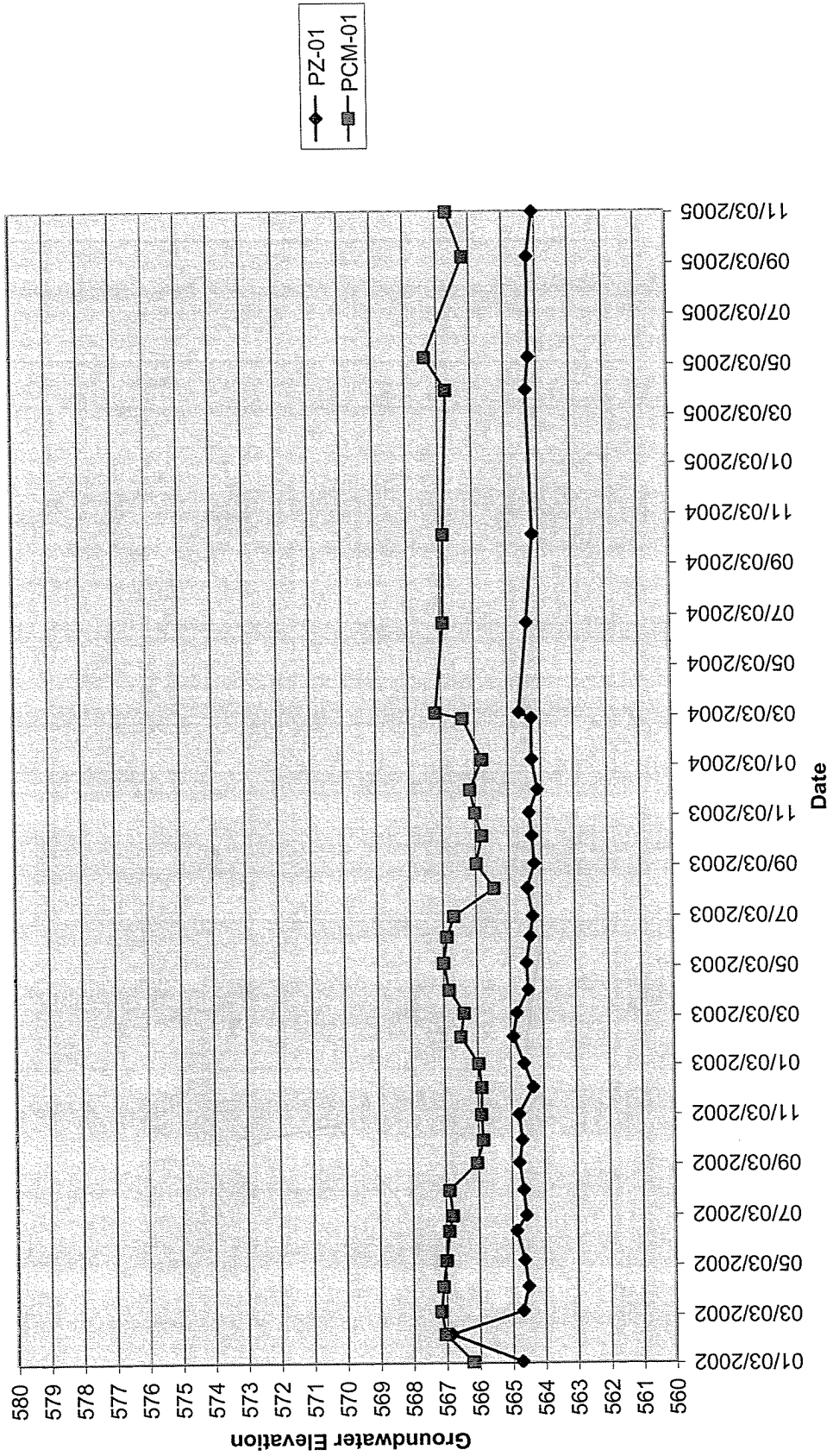
Director, Division of Environmental Remediation
New York State Dept. of Environmental Conservation
625 Broadway
8th Floor
Albany, NY 12233-7252

and

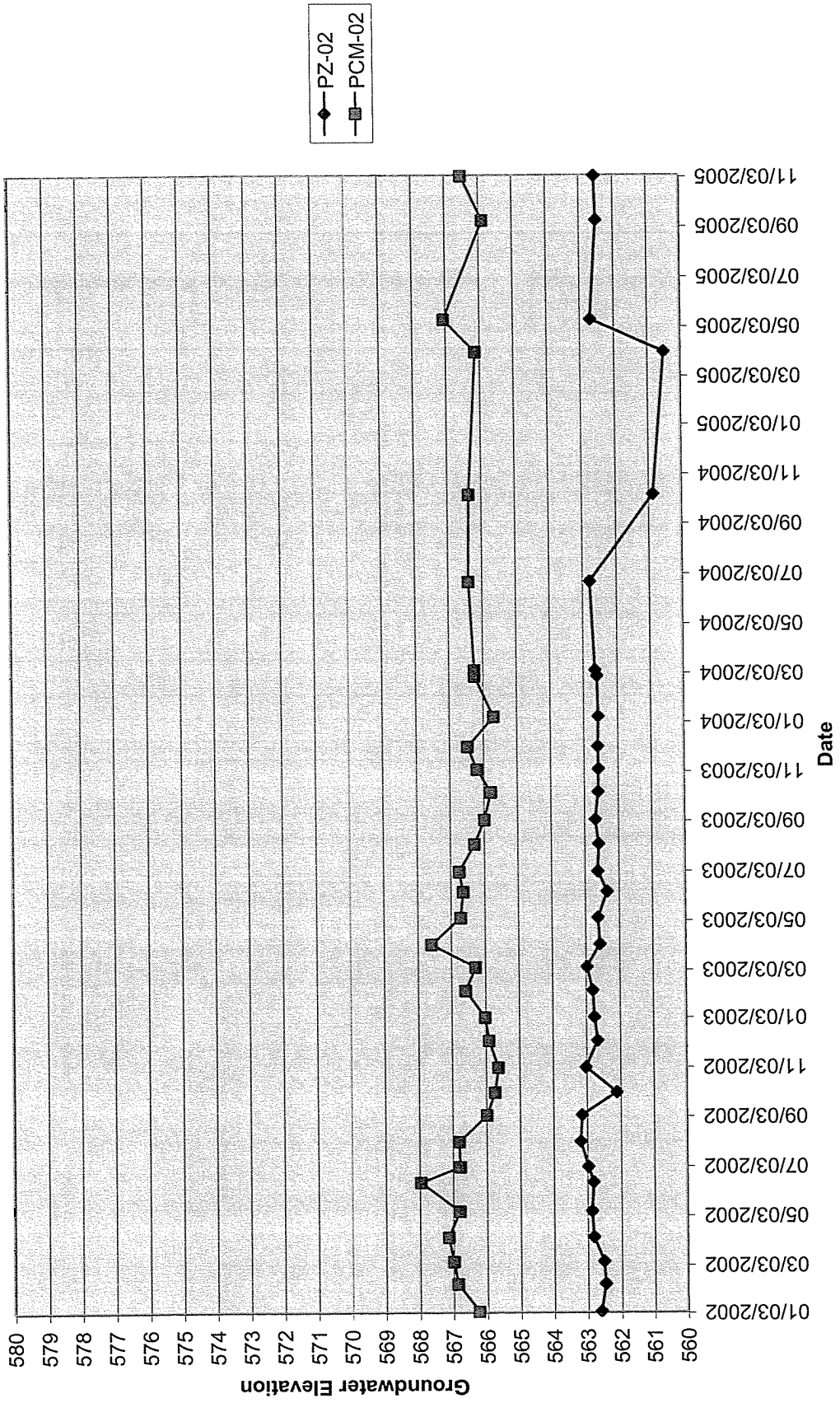
Regional Remediation Engineer
New York State Dept. of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

FORM 1

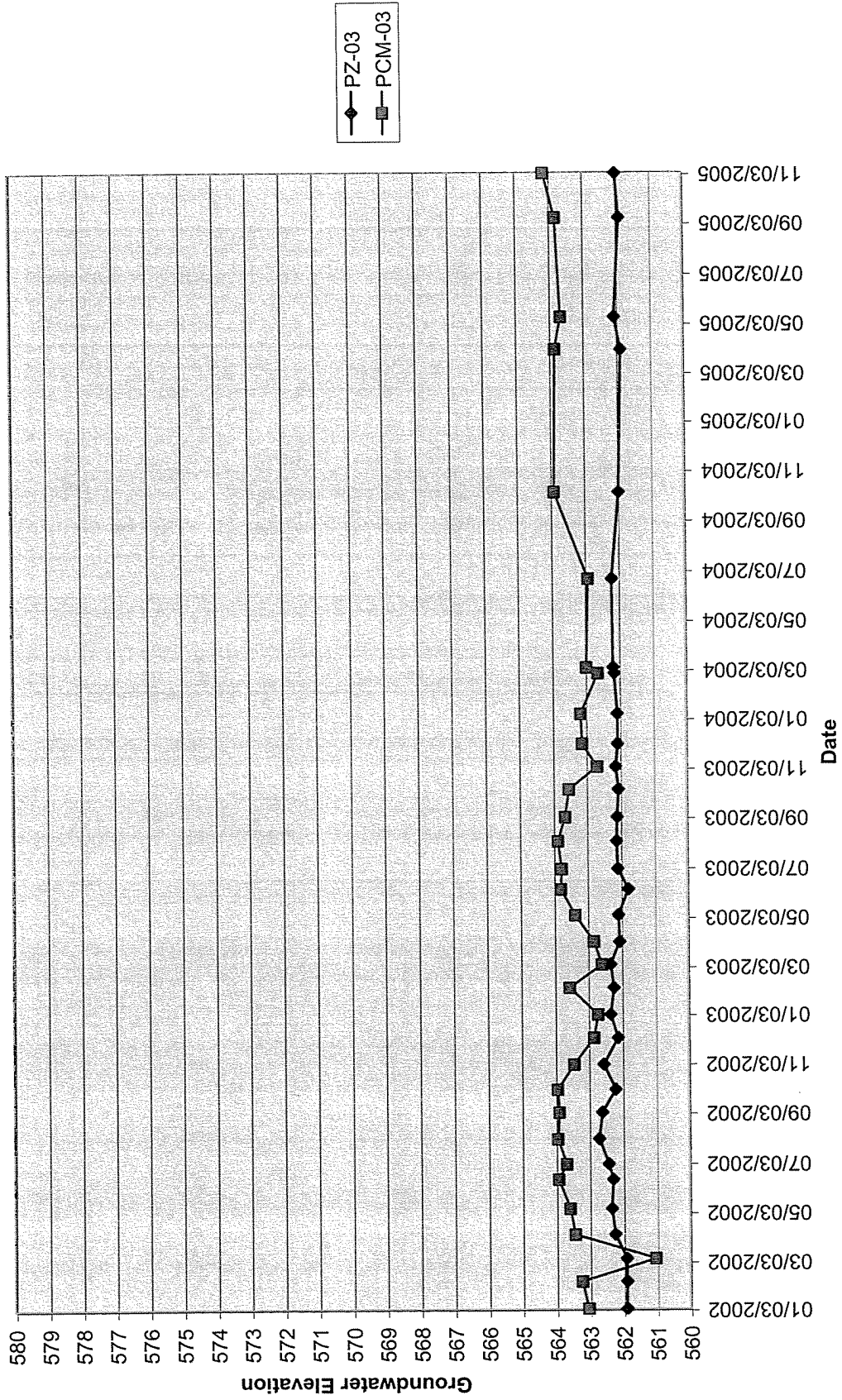
Groundwater Levels Well Pair 1



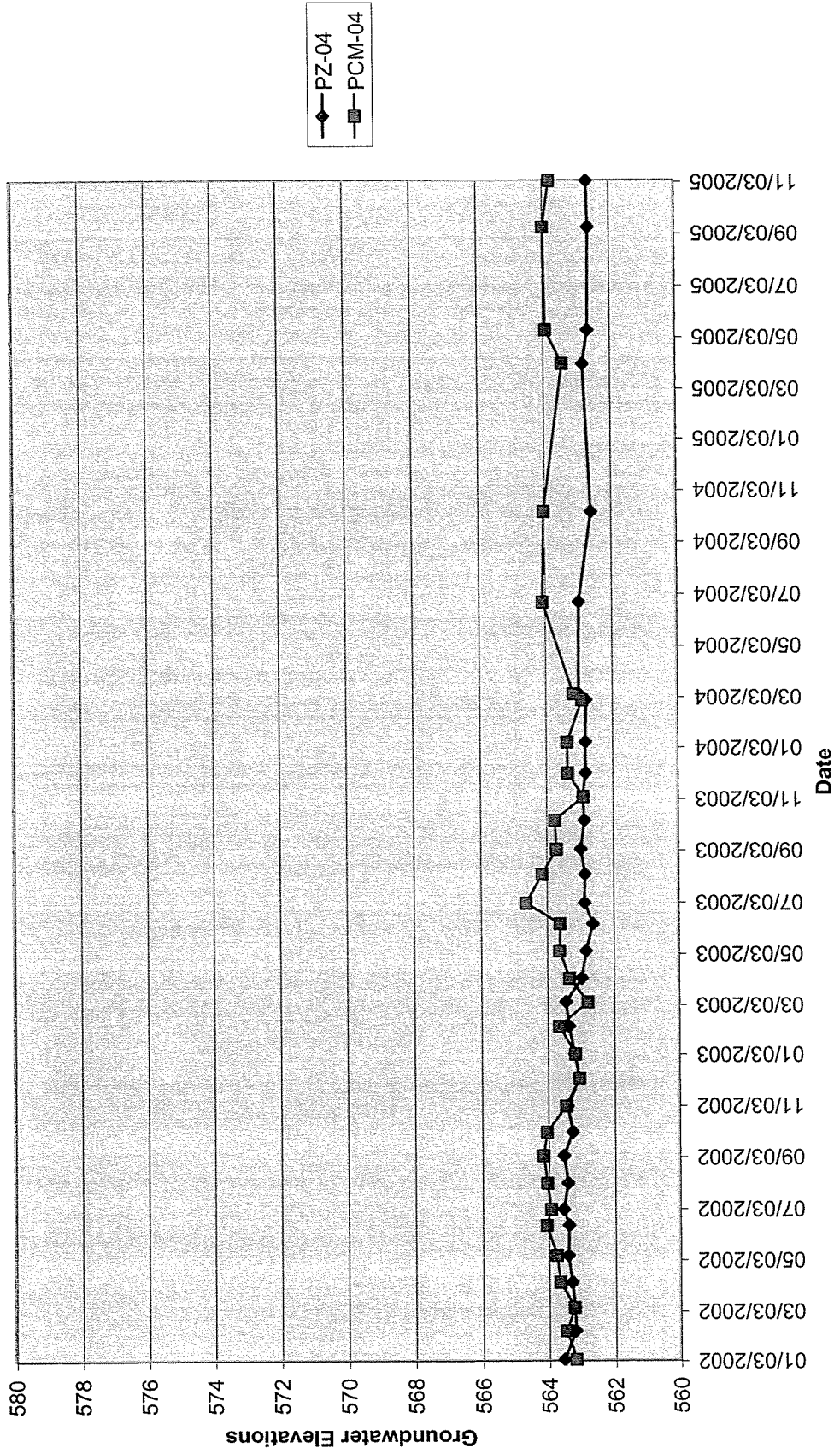
Groundwater Levels Well Pair 2



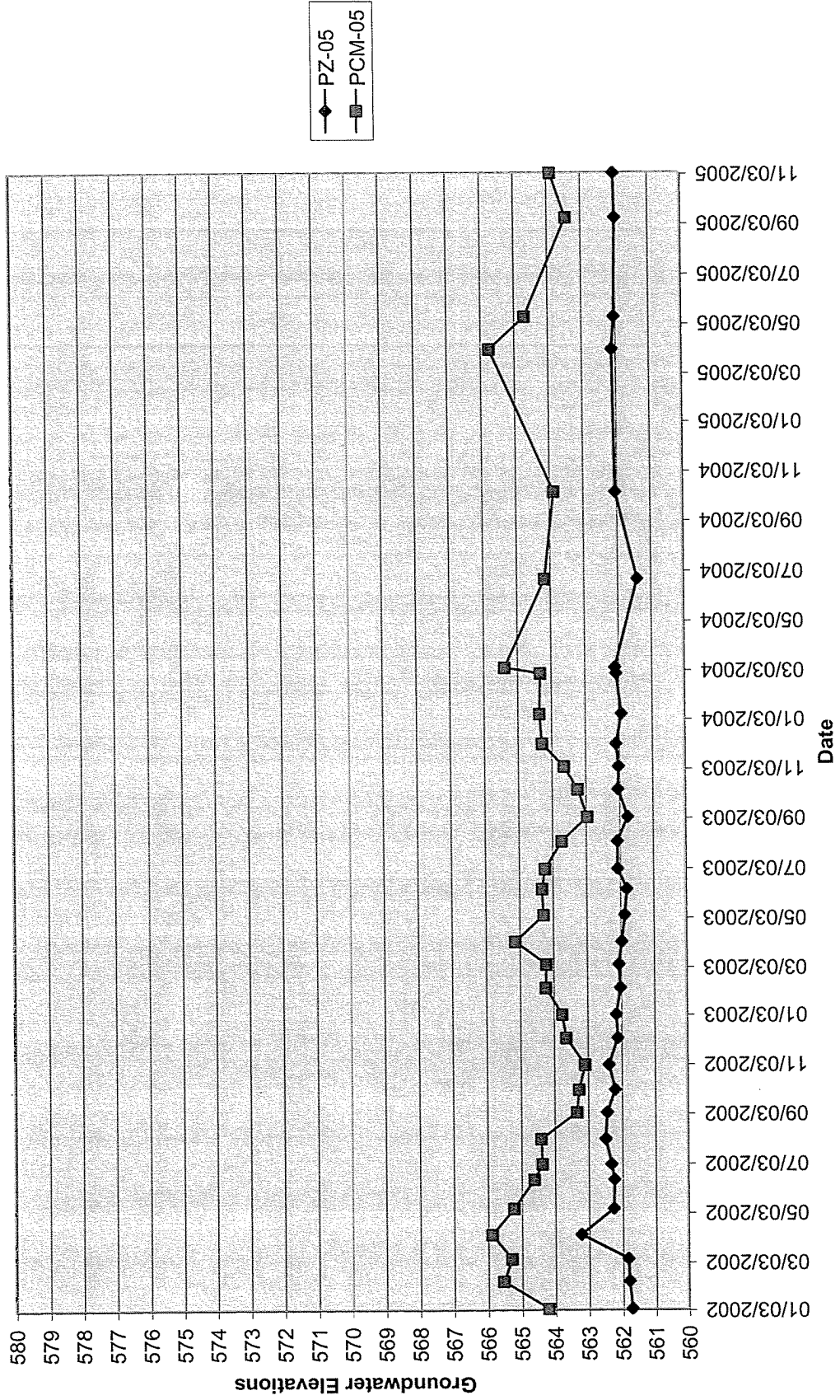
Groundwater Levels Well Pair 3



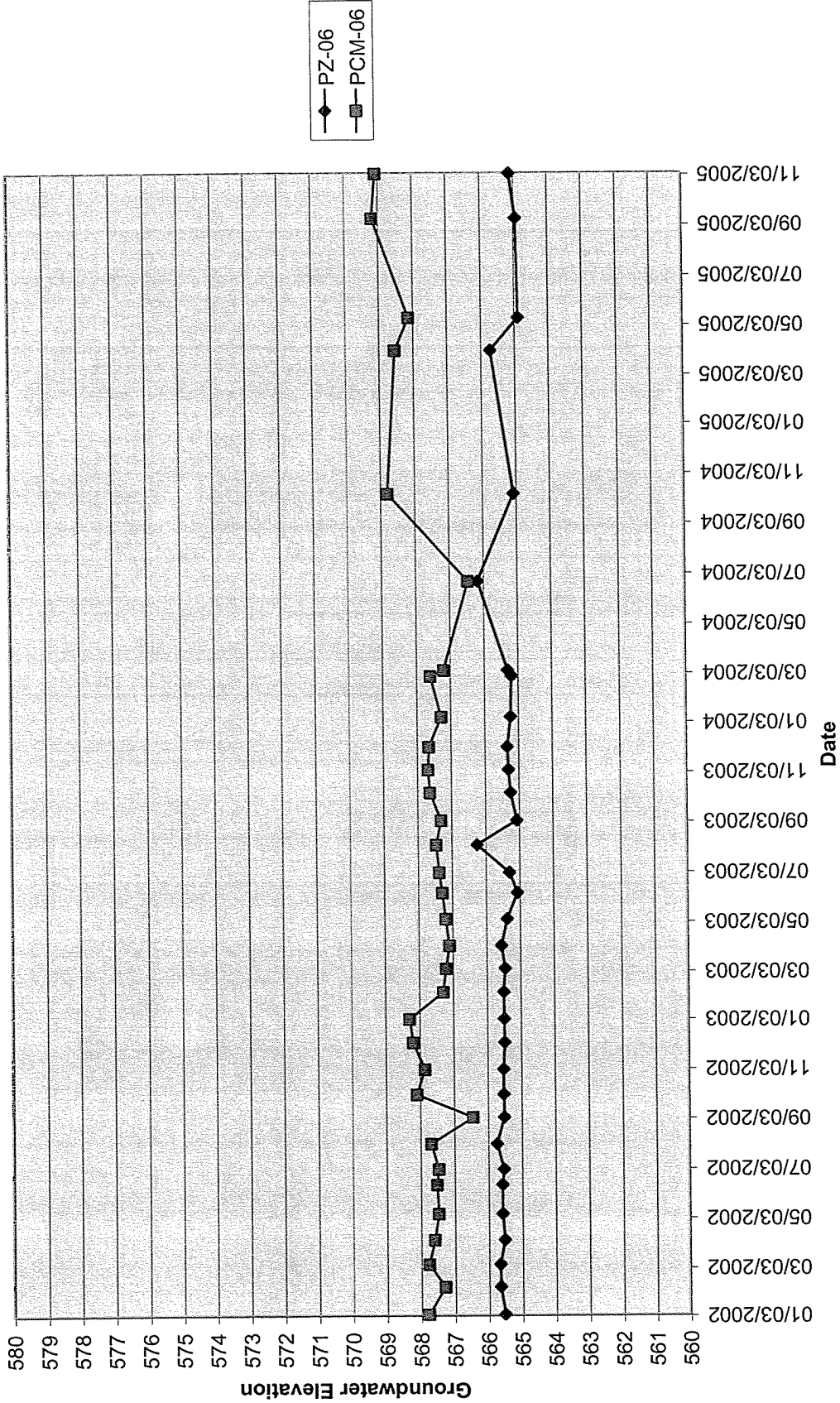
Groundwater Levels Well Pair 4



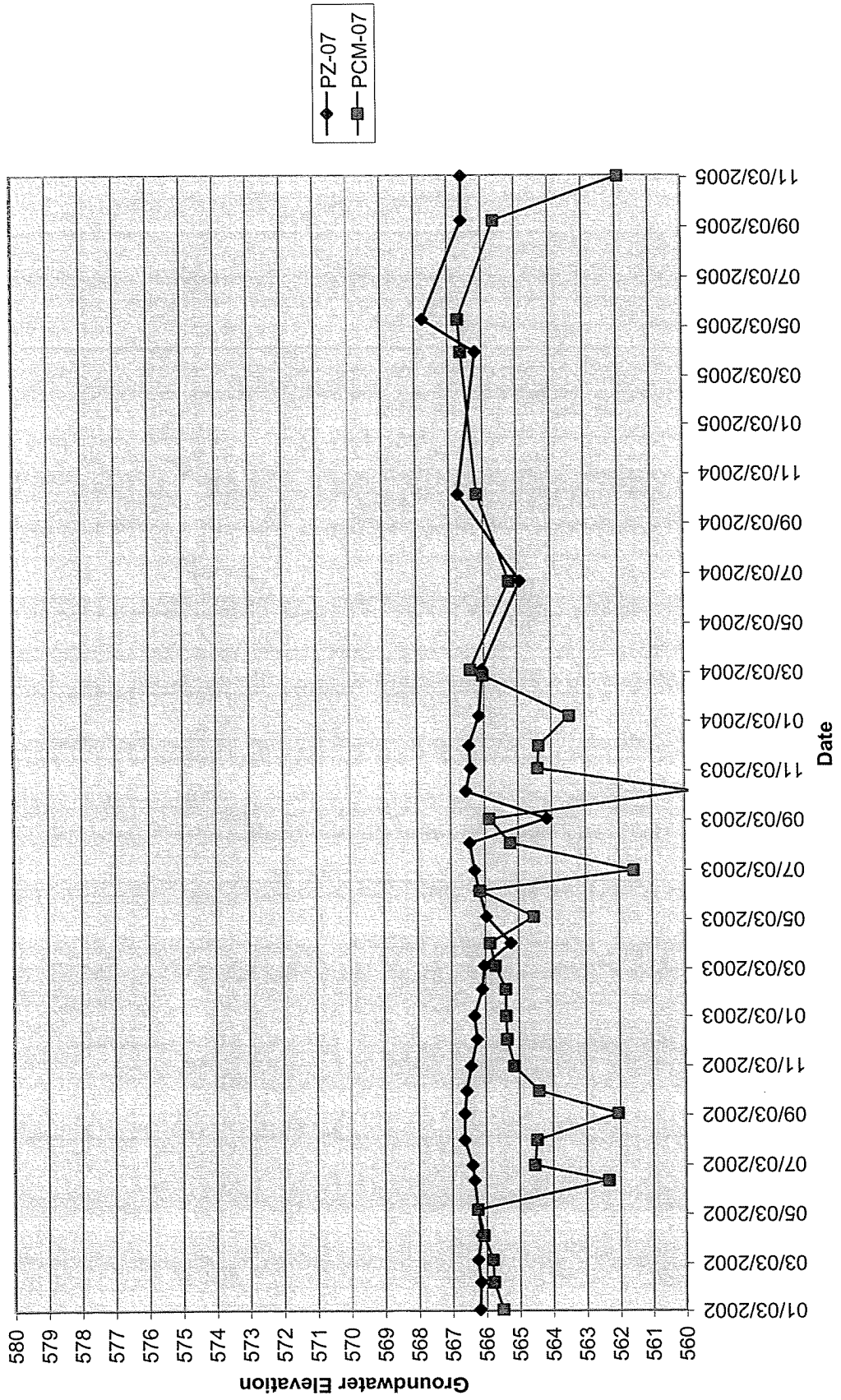
Groundwater Levels Well Pair 5



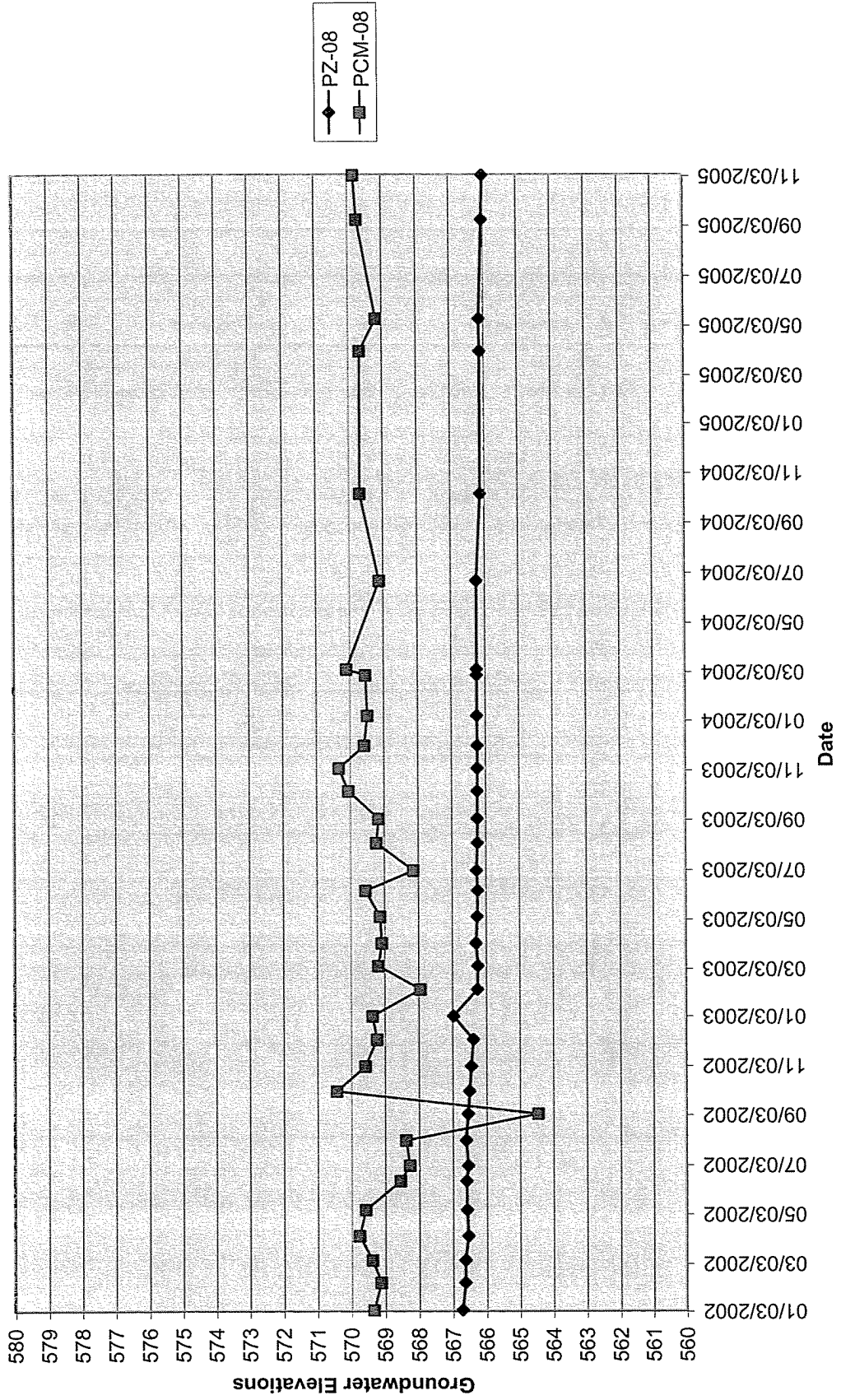
Groundwater Levels Well Pair 6



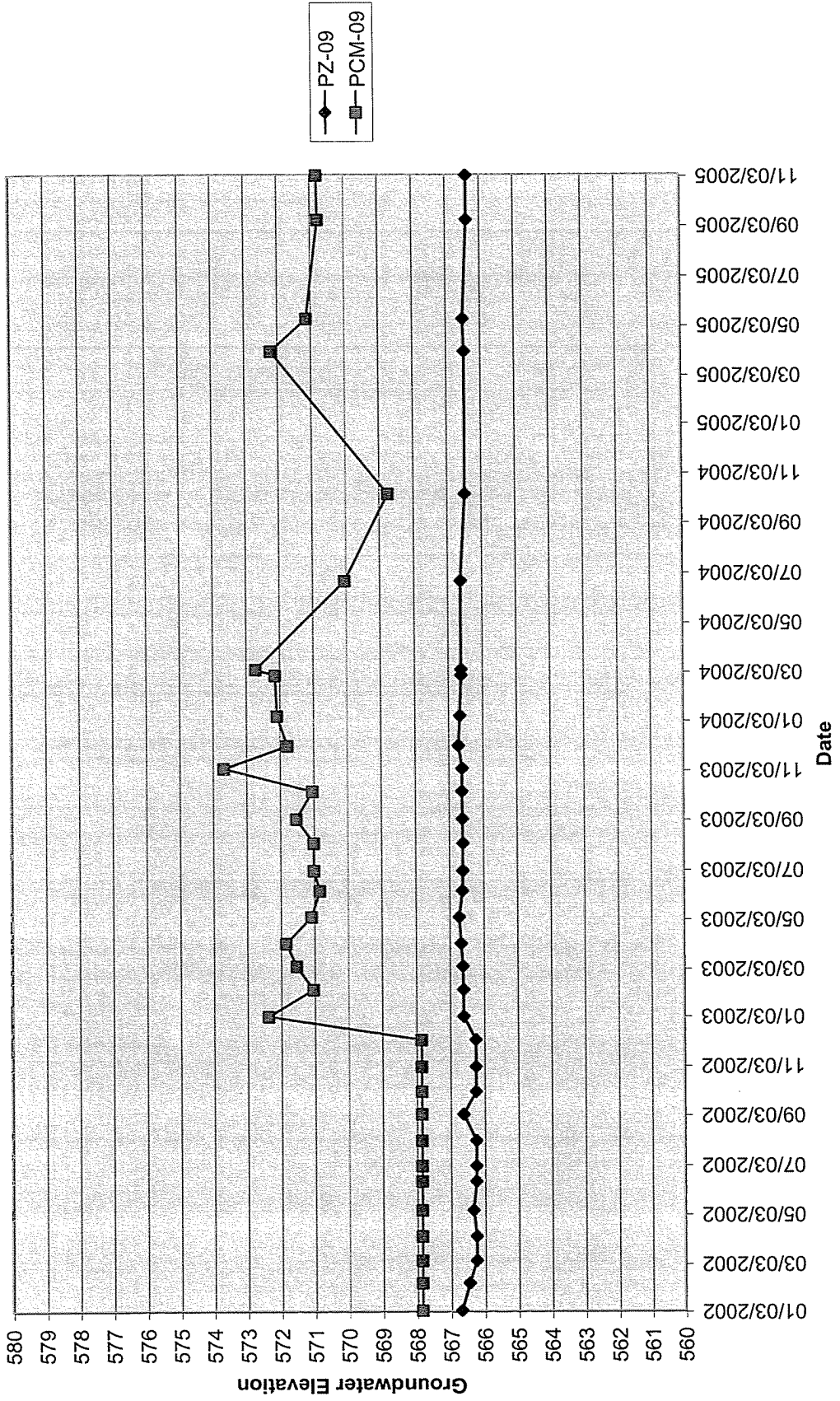
Groundwater Levels Well Pair 7



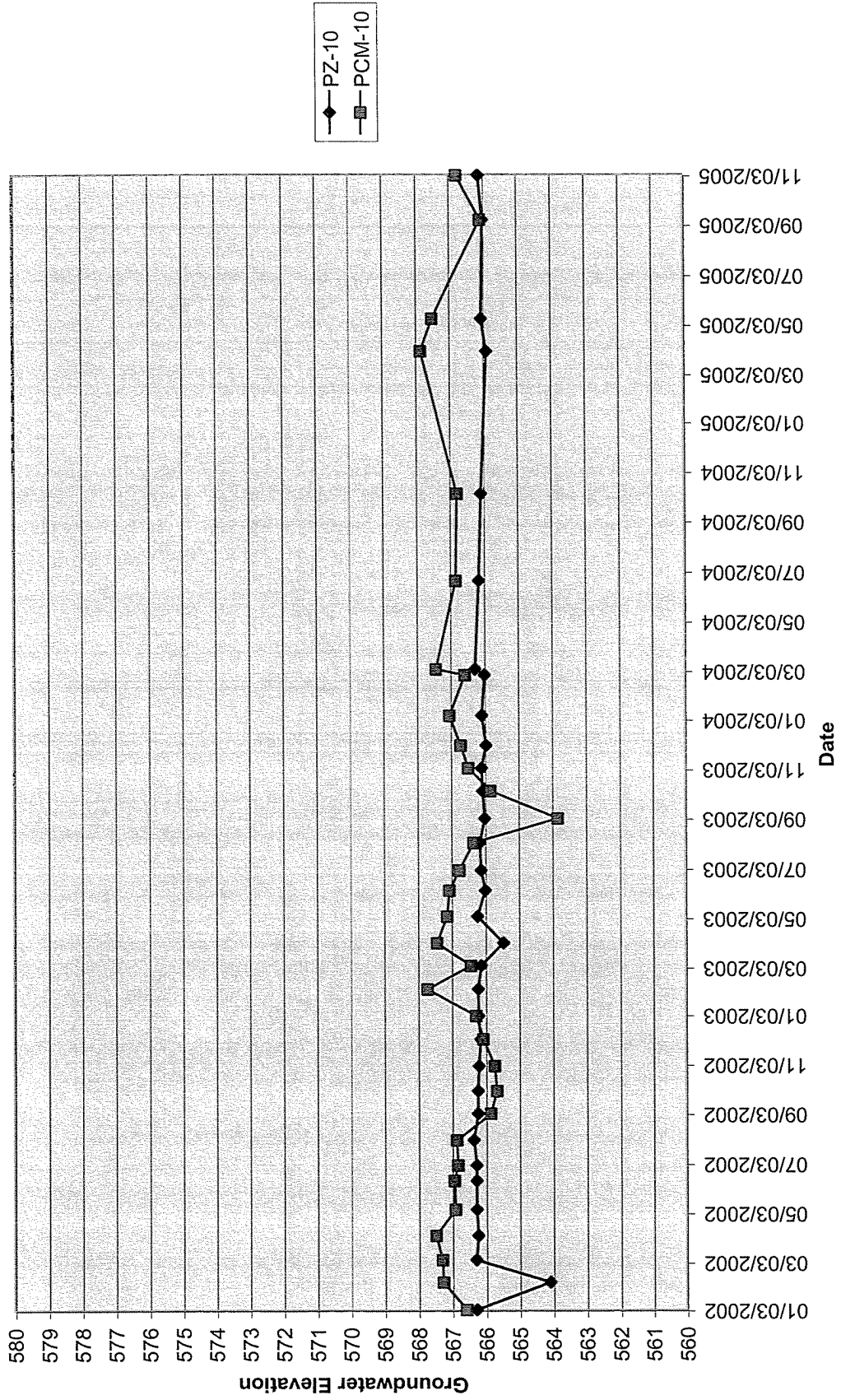
Groundwater Levels Well Pair 8



Groundwater Levels Well Pair 9



Groundwater Levels - Well Pair 10



APPENDIX B

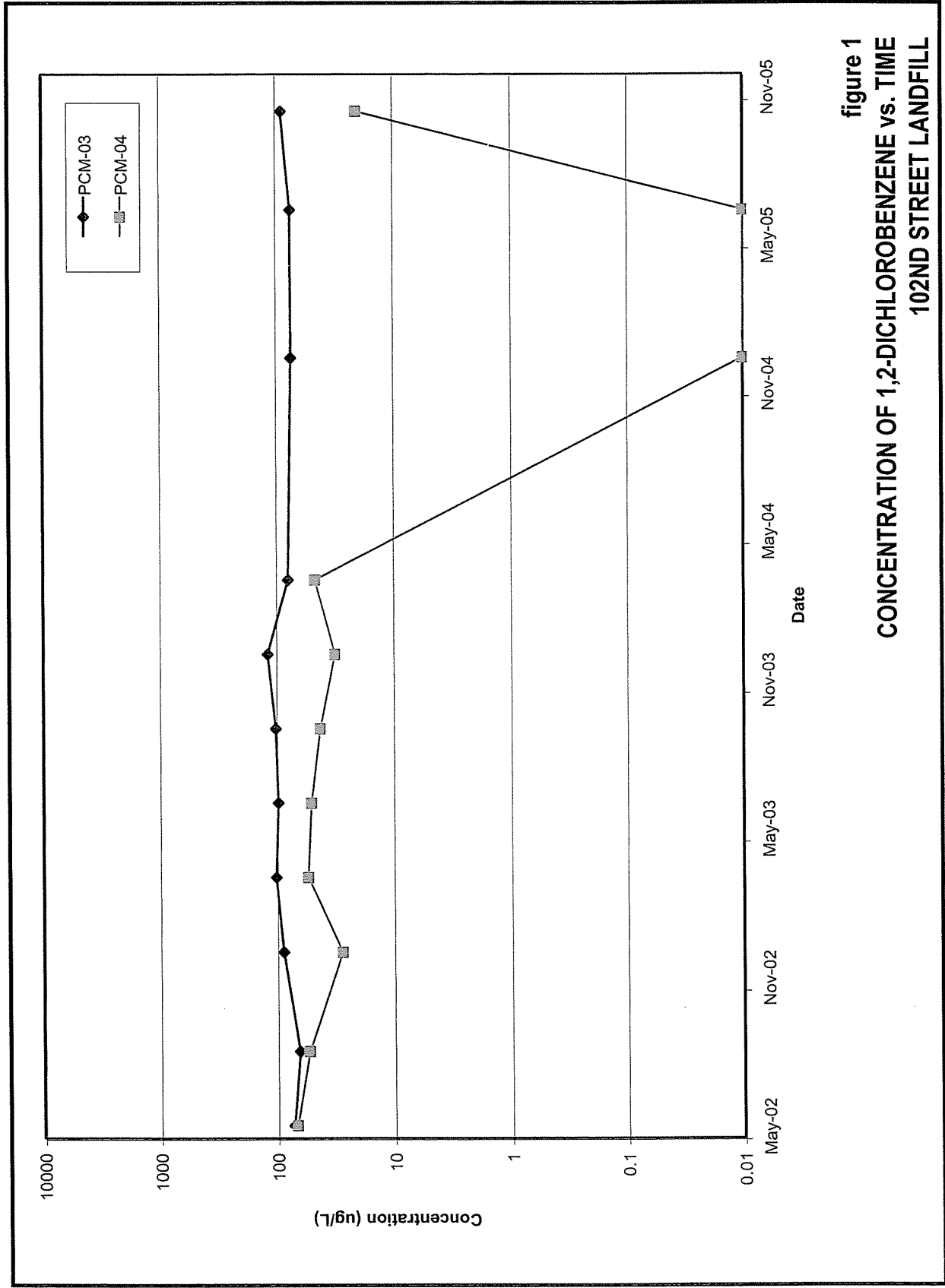


figure 1
CONCENTRATION OF 1,2-DICHLOROBENZENE VS. TIME
102ND STREET LANDFILL

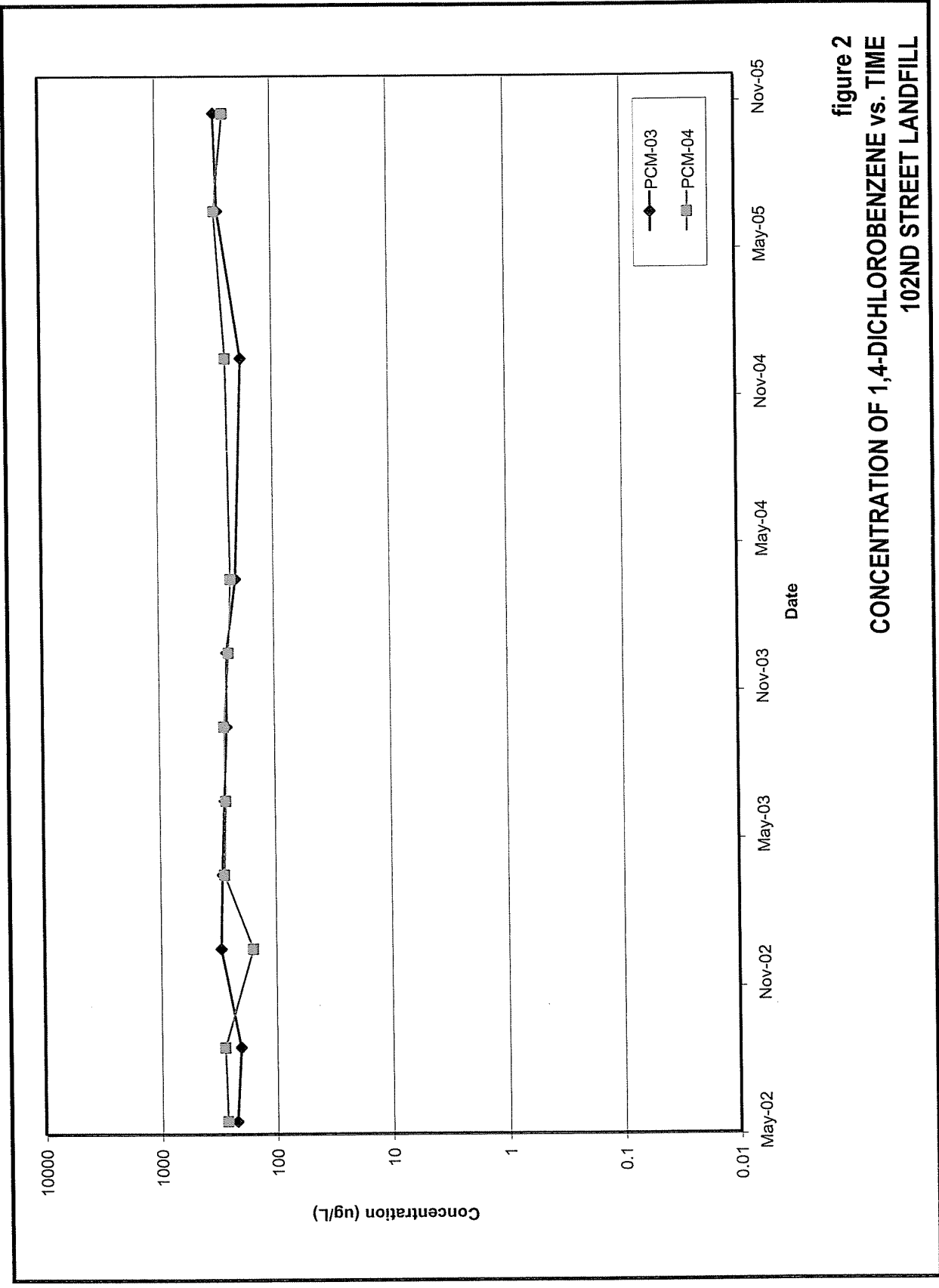


figure 2
CONCENTRATION OF 1,4-DICHLOROBENZENE vs. TIME
102ND STREET LANDFILL

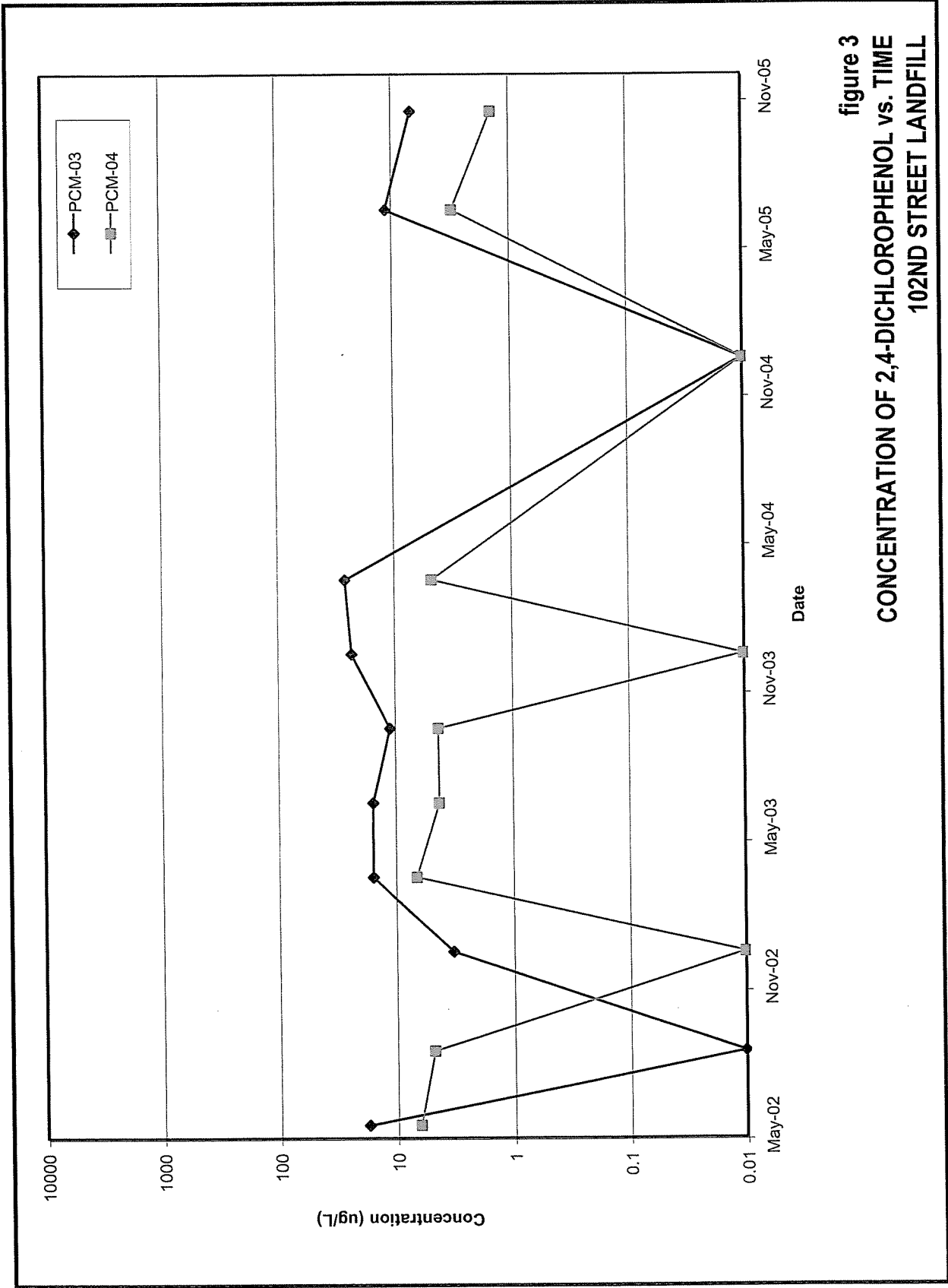


figure 3
CONCENTRATION OF 2,4-DICHLOROPHENOL vs. TIME
102ND STREET LANDFILL

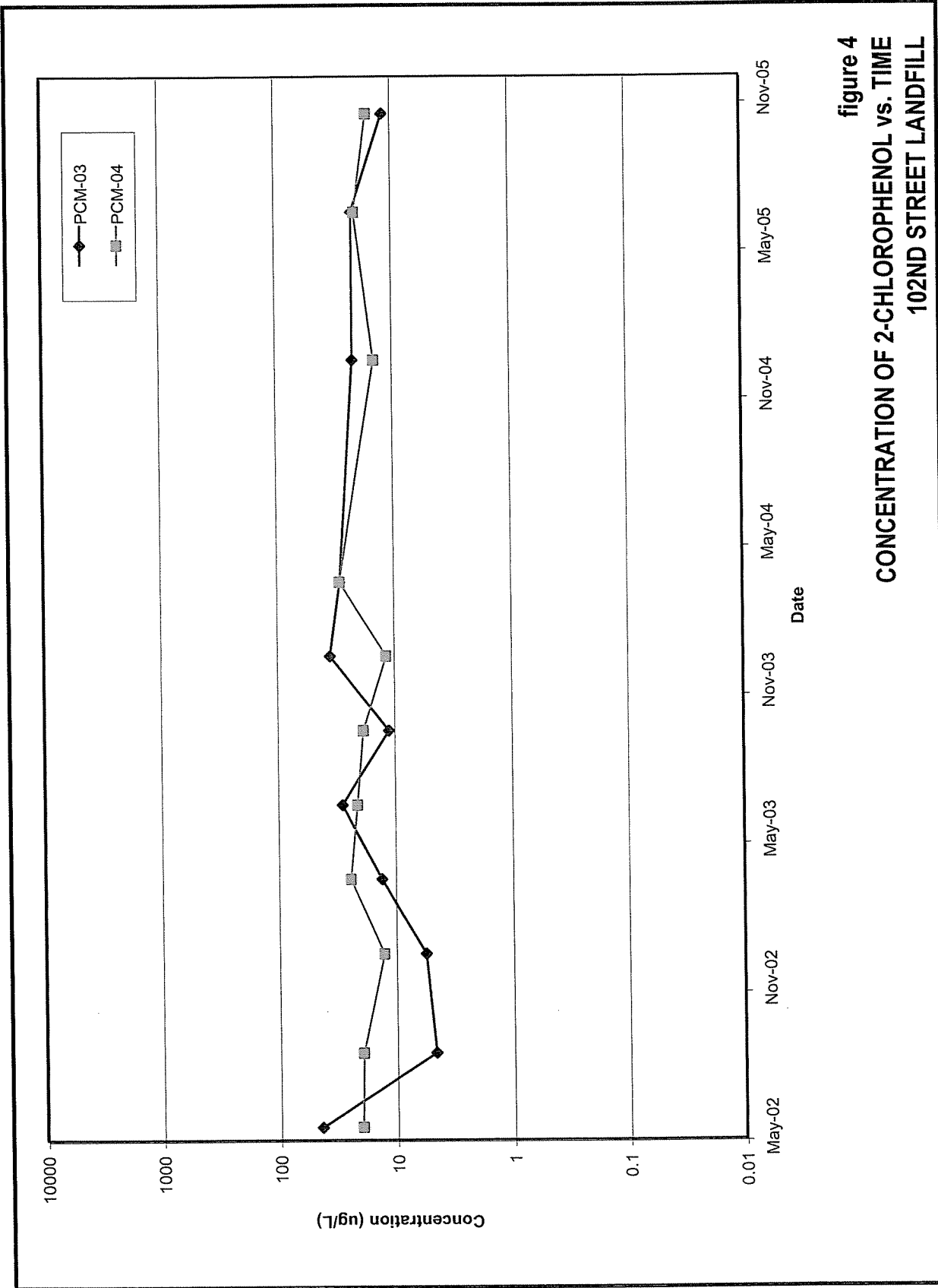


figure 4
 CONCENTRATION OF 2-CHLOROPHENOL vs. TIME
 102ND STREET LANDFILL

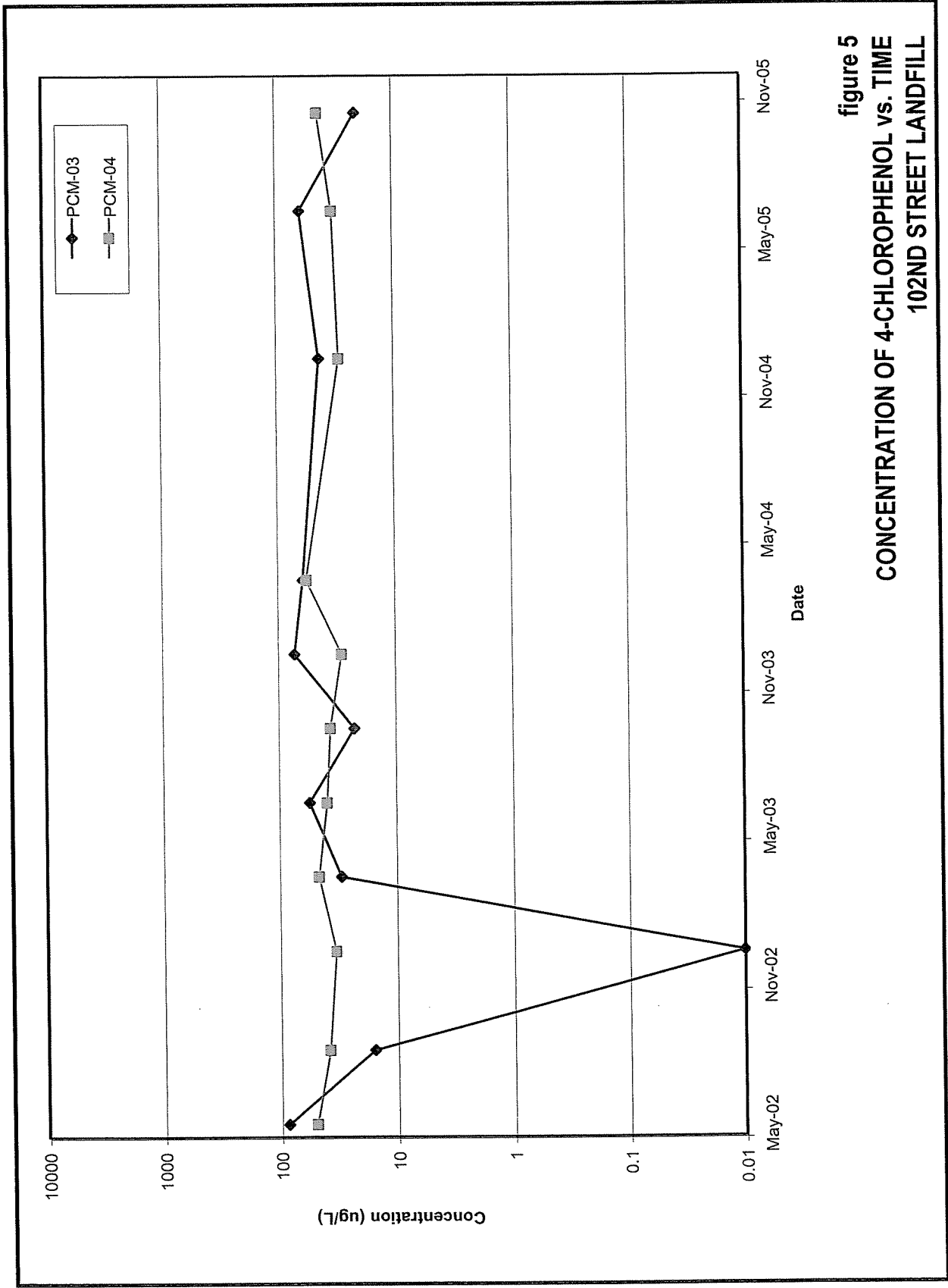


figure 5
CONCENTRATION OF 4-CHLOROPHENOL vs. TIME
102ND STREET LANDFILL

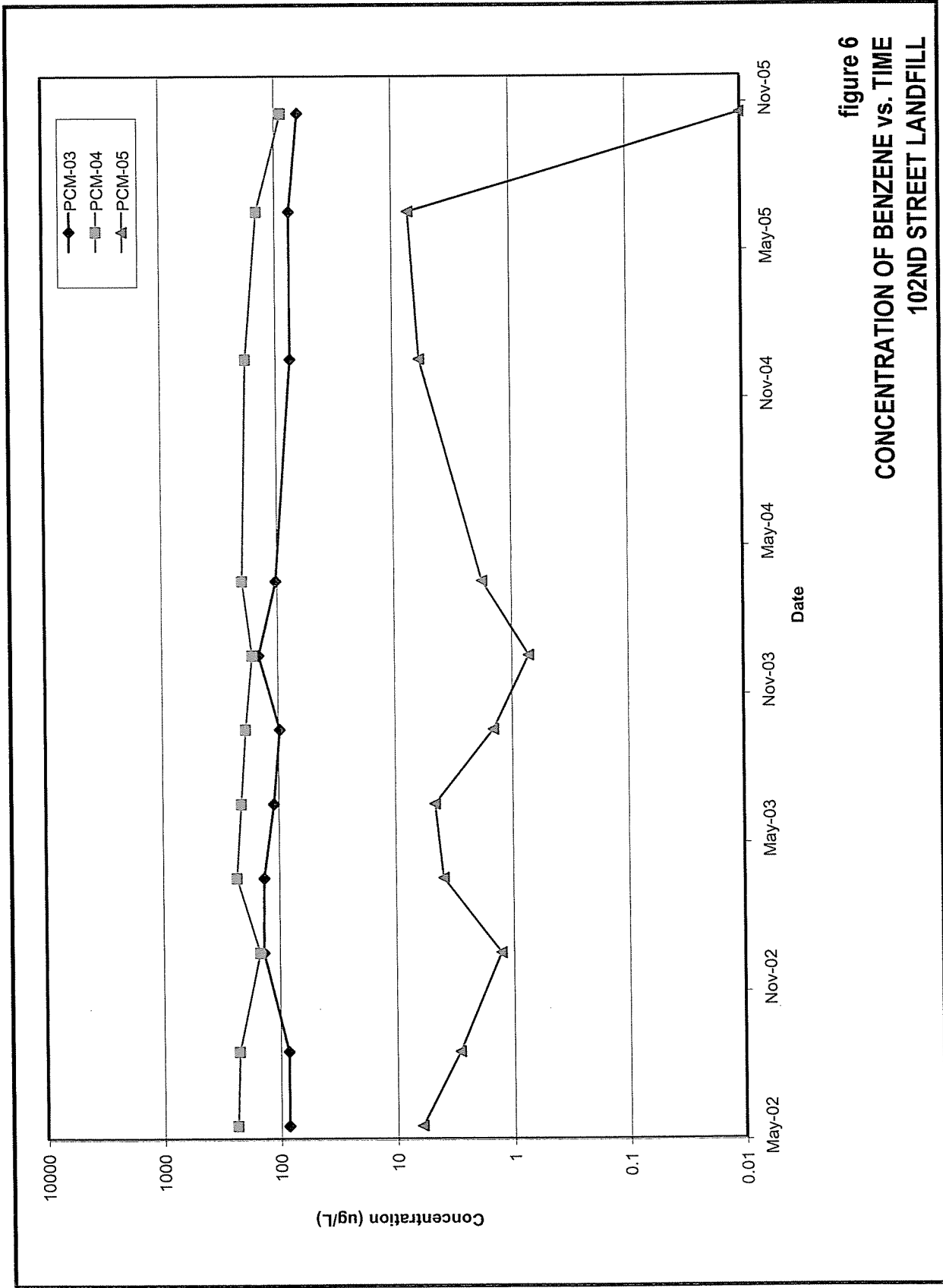


figure 6
CONCENTRATION OF BENZENE vs. TIME
102ND STREET LANDFILL

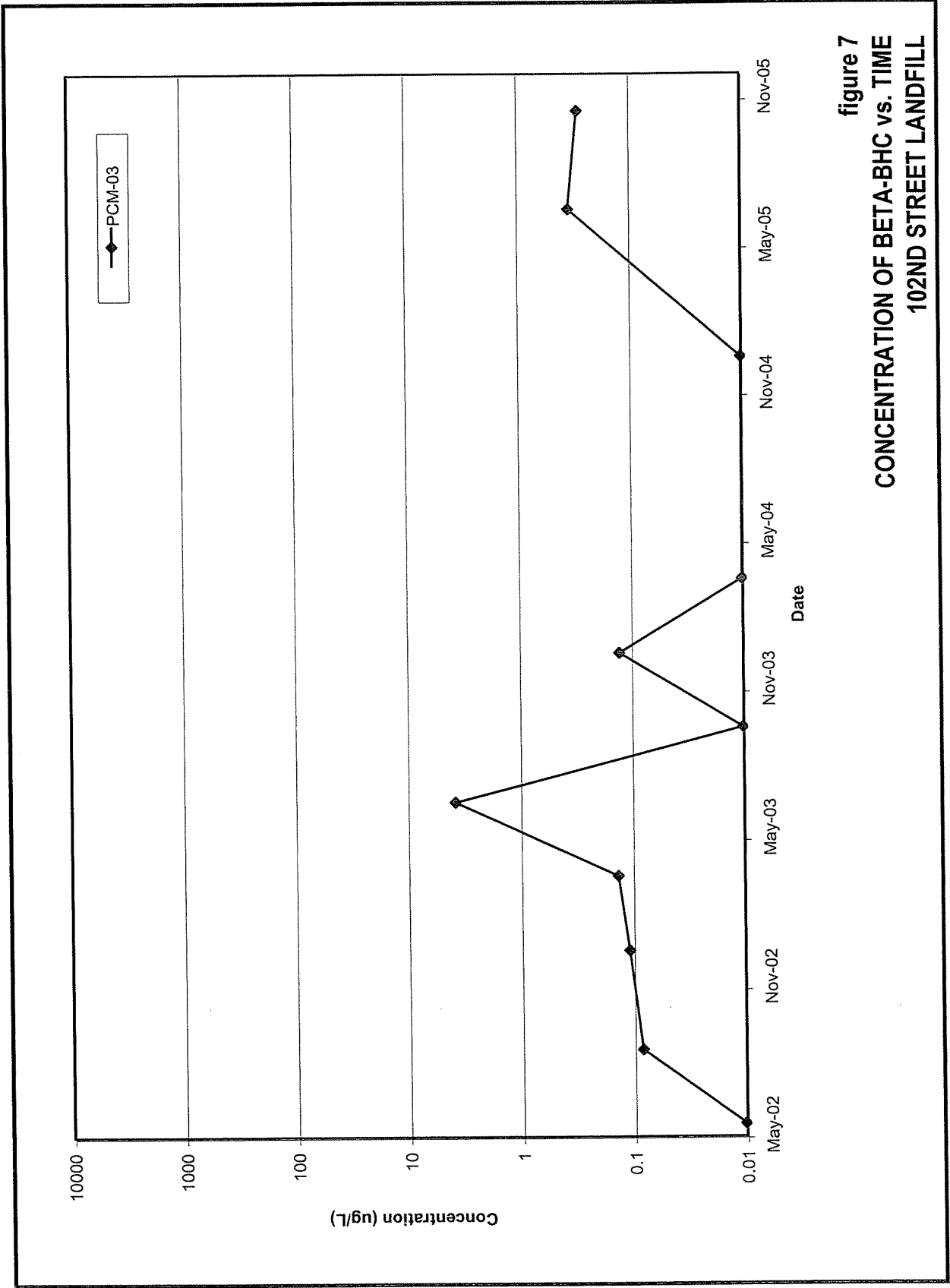


figure 7
CONCENTRATION OF BETA-BHC vs. TIME
102ND STREET LANDFILL

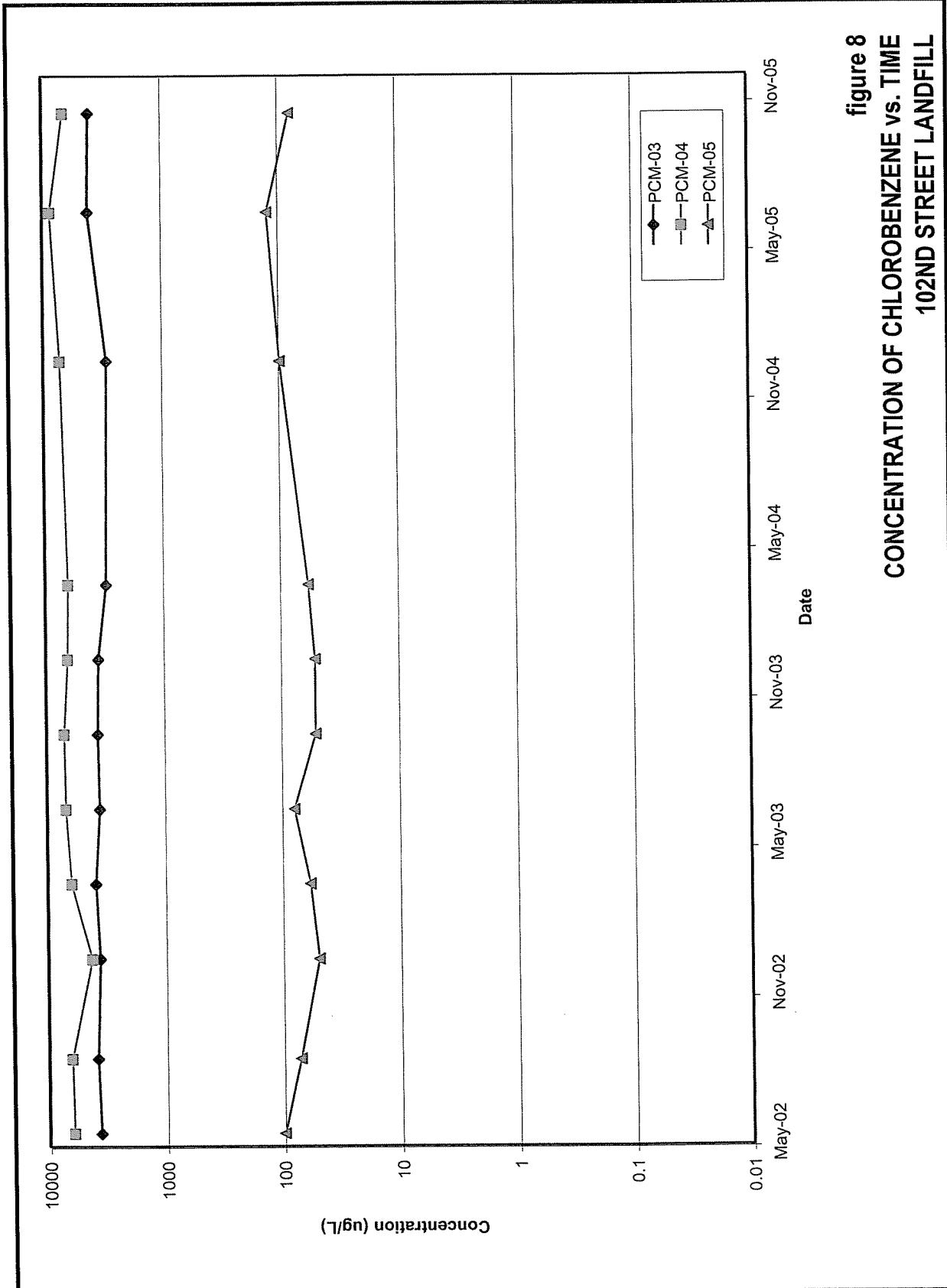


figure 8
CONCENTRATION OF CHLOROBENZENE vs. TIME
102ND STREET LANDFILL

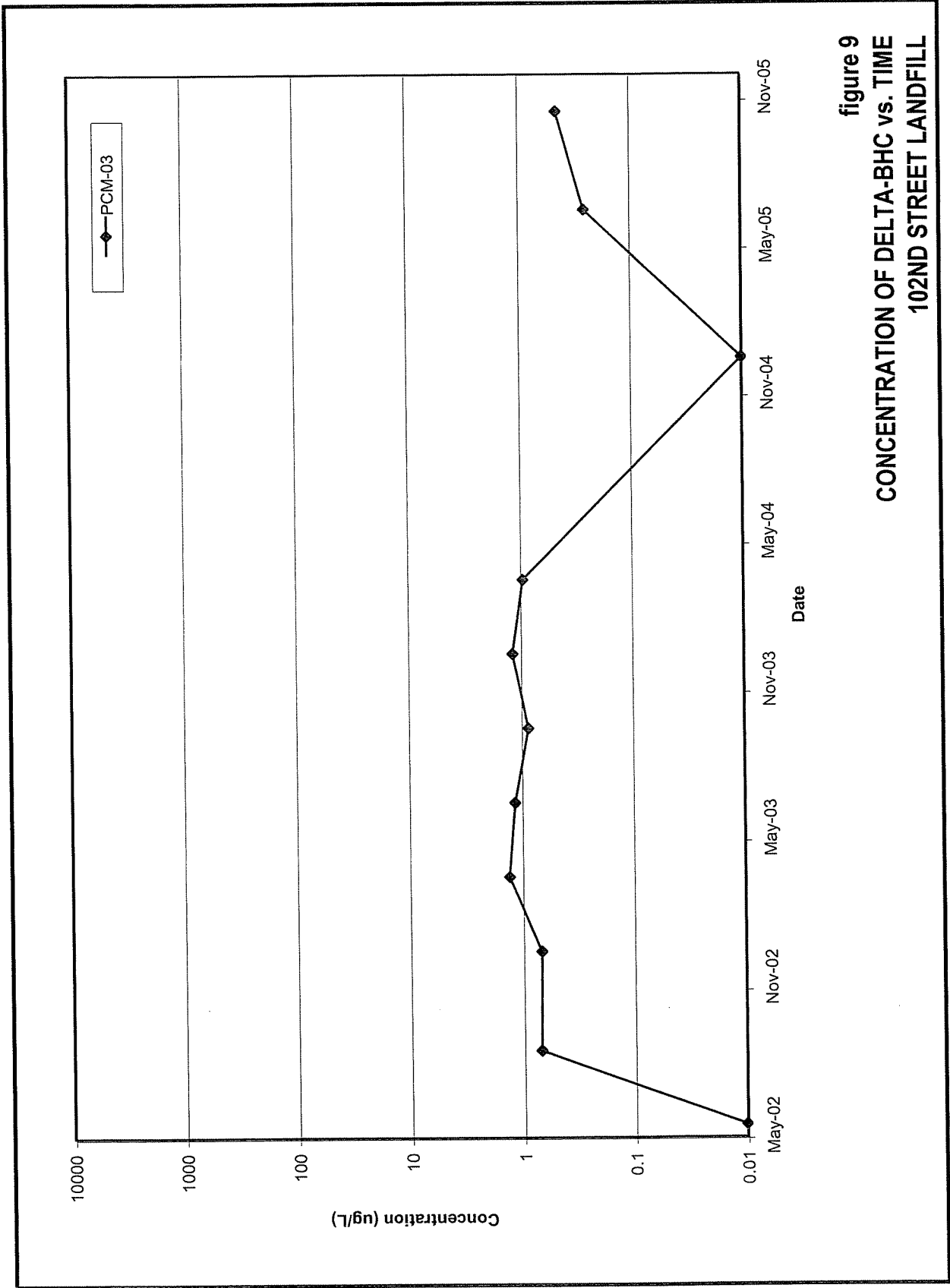


figure 9
CONCENTRATION OF DELTA-BHC vs. TIME
102ND STREET LANDFILL

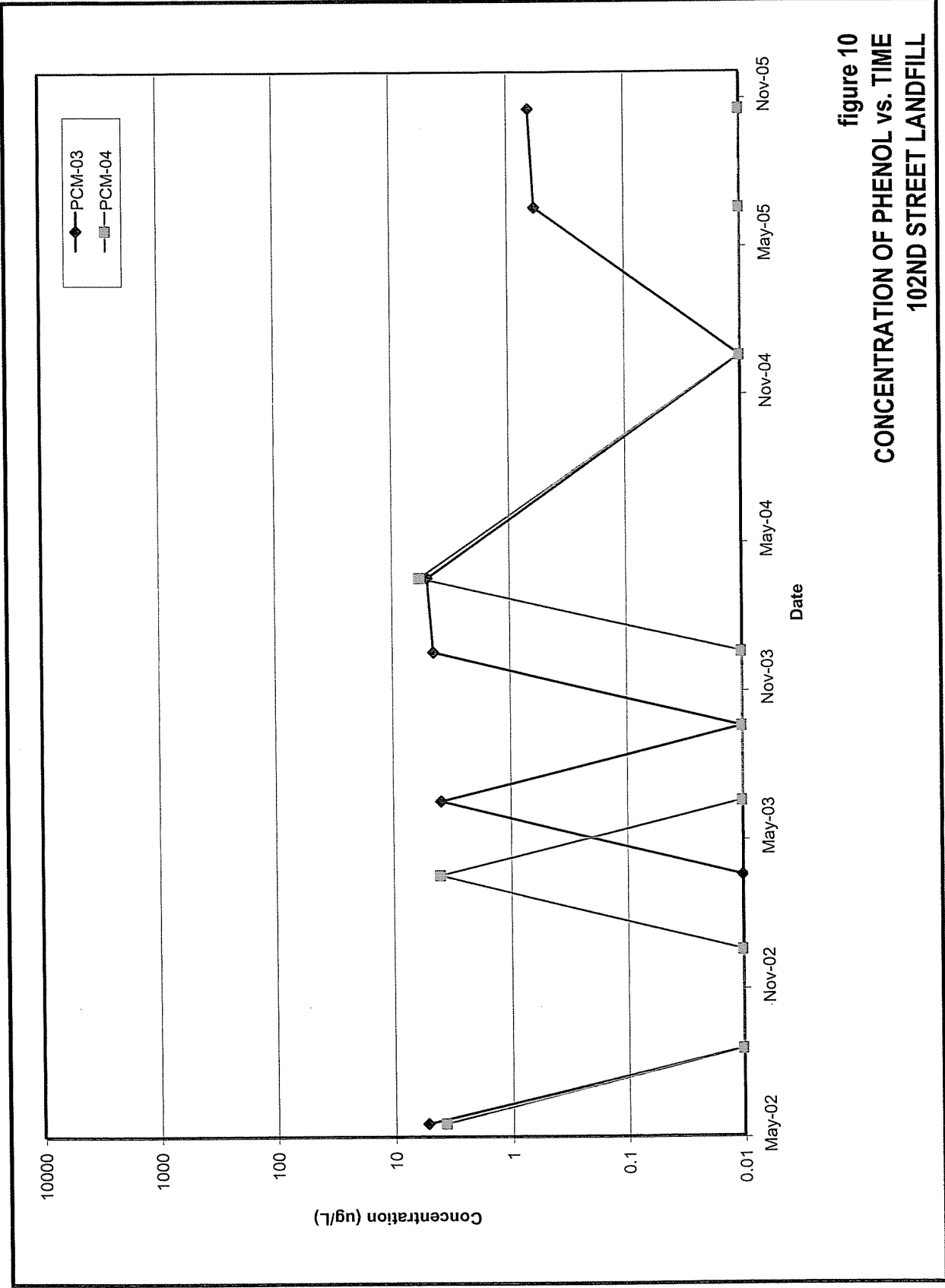


figure 10
CONCENTRATION OF PHENOL vs. TIME
102ND STREET LANDFILL