

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK
ANNUAL REPORT 2007



Glenn Springs Holdings, Inc. and Olin Corporation

TABLE OF CONTENTS

	<u>Page</u>
<u>EXECUTIVE SUMMARY</u>	<i>i</i>
<u>1.0 INTRODUCTION</u>	<i>1</i>
<u>2.0 MONITORING AND TESTING</u>	<i>2</i>
<u>2.1 MONITORING PLAN</u>	<i>2</i>
2.1.1 <u>WATER LEVEL MONITORING</u>	<i>2</i>
2.1.2 <u>GROUNDWATER QUALITY MONITORING</u>	<i>3</i>
2.1.3 <u>NAPL PRESENCE MONITORING</u>	<i>3</i>
<u>3.0 OPERATION OF 102ND STREET LANDFILL SYSTEMS</u>	<i>4</i>
<u>3.1 APL COLLECTION AND DISCHARGE SYSTEM operation</u>	<i>4</i>
<u>3.2 NAPL RECOVERY</u>	<i>4</i>
<u>4.0 SITE MAINTENANCE and inspections</u>	<i>6</i>
<u>4.1 SITE INSPECTIONS</u>	<i>6</i>
<u>4.2 MAINTENANCE</u>	<i>6</i>
<u>4.3 Site Beautification / WILDLIFE</u>	<i>8</i>
<u>5.0 CONCLUSION</u>	<i>9</i>

LIST OF FIGURES
(Attached)

FIGURE 1 GROUNDWATER COLLECTION SYSTEM

LIST OF TABLES
(Attached)

TABLE 2.1 GRADIENTS PCM WELLS (OUTSIDE) VS. PZ WELLS (INSIDE) ELEVATIONS

TABLE 2.2 2007 ANALYTICAL RESULTS BEDROCK (PCBM) AND OVERBURDEN (PCM) WELLS

LIST OF APPENDICES
(Attached)

APPENDIX A ANNUAL REPORT FORMS AND GRAPHS

APPENDIX B ANALYTICAL TREND GRAPHS

EXECUTIVE SUMMARY

The following report describes the Operation and Maintenance (O&M) activities for 2007 at 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 operated by Glenn Springs Holdings, Inc. (GSHI), an affiliate of OxyChem.

During 2007, the Remedial Action System Components (RASC) at 102nd Street performed as designed. The leachate collection system removed 300,074 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 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/PCM-07R.

In 2007, 9,627 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 2007 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 locked 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 Closure 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 sixth Annual Report for the Site, covering all O&M activities for the calendar year of 2007.

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 2007 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*. Data for 2002 through 2007 have also been graphed to show groundwater elevation trends. Graphs are also included in *Appendix A*. Additionally *Table 2.1* shows 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-07R	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 documented 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, 4 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. PCM-07 was replaced with PCM-07R continue monitoring of the pairing with replacement well to evaluate a trend of gradients in the area. 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 all 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” all 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 2007 occurred semi-annually, with June constituting the first semi-annual event and November the second semi-annual event. *Table 2.2* shows the results from both of the monitoring events.

Concentrations 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. In accordance with the approved O&M Manual, NAPL presence was checked each month for the first three months (fulfilled in 2002) and is checked quarterly thereafter. Results of this monitoring are presented in the Annual Report Form, which are attached as part of *Appendix A*.

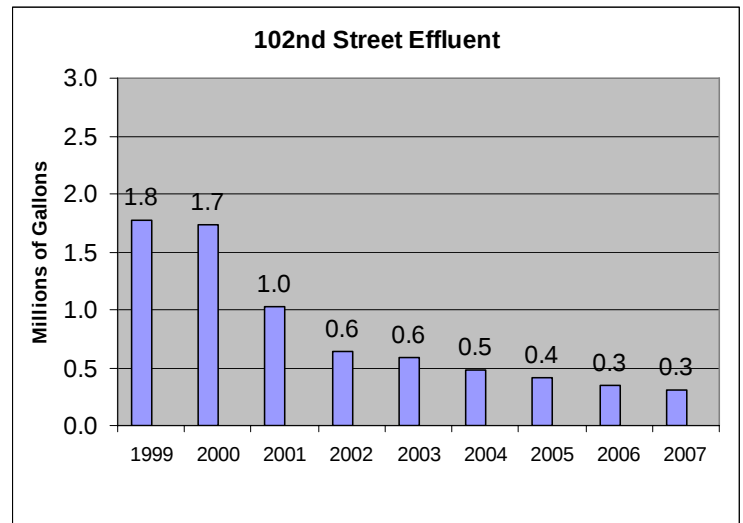
3.0 OPERATION OF 102ND STREET LANDFILL SYSTEMS

3.1 APL COLLECTION AND DISCHARGE SYSTEM OPERATION

The individual APL pumps (4) in the APL collection wet wells operated throughout 2007 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 300,074 gallons of APL were removed from the site and pumped to the Love Canal Treatment Facility (LCTF). There the APL was treated and discharged to the City of Niagara Falls Sanitary Sewer System. A total of 7 million gallons have been recovered from the Site since pumping was initiated in March of 1999.

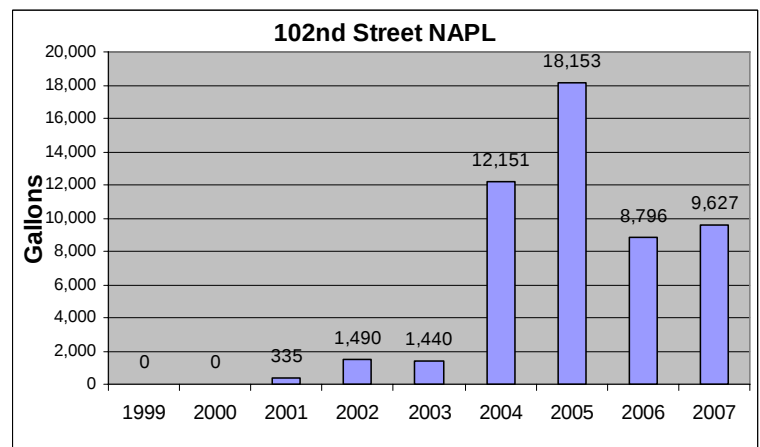
Listed below are four (4) wet wells and the gallons and percentiles of APL the individual wells had collected for the year.



Well 1	Well 2	Well 3	Well 4	YTD
40,616	220,843	27,140	11,475	YTD
14%	74%	9%	4%	100%

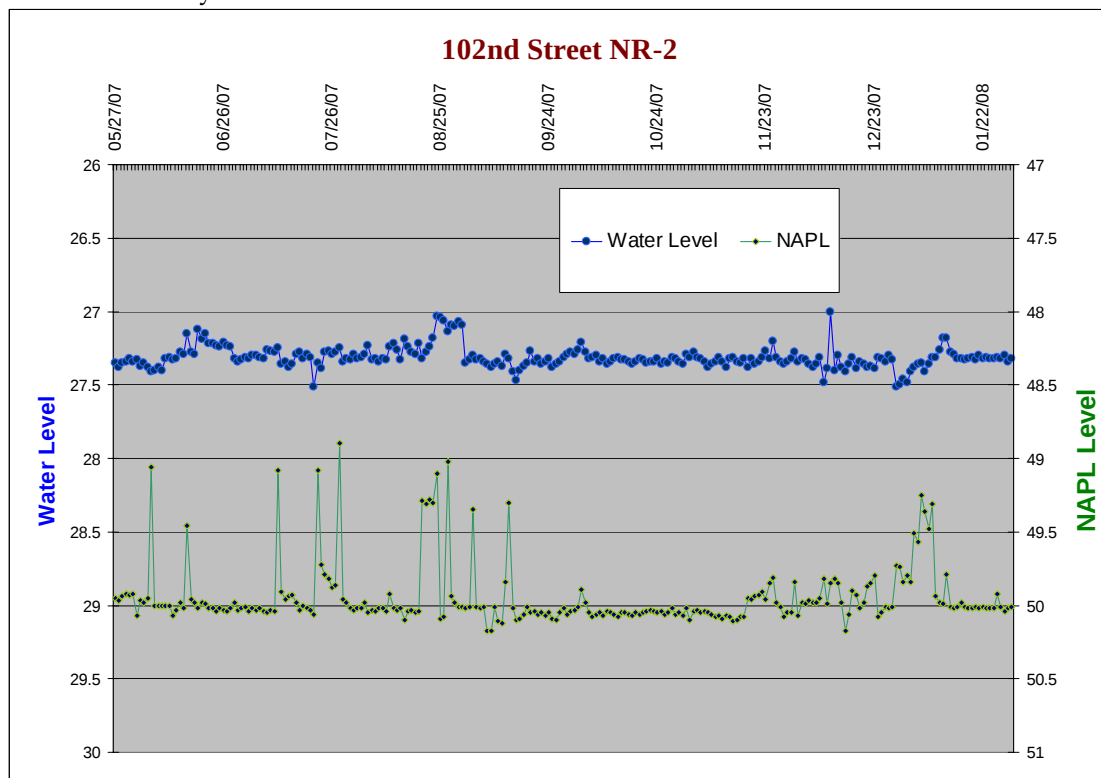
3.2 NAPL RECOVERY

A total of 9,627 gallons (four tanker trailers) of material (NAPL) was removed from the NAPL Recovery Wells at the site in 2007. Most of it from NR-2. This material was transported to the Clean Harbors Facility in Deer Park, Texas for incineration. NAPL recovery from NR-2 will continue in 2008.



As outlined in the above section **2.1.3 NAPL Presence Monitoring**, A concentrated effort was implemented in 2004 to extract NAPL, using Recovery well (NR) NR-2. in accordance with 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 2007, NAPL was recovered continuously from April through December 2007 from NR-02 for a total NAPL recovery of 9,627 gallons. A summary of the NAPL monitoring and the extractions are outlined in *Appendix B*.

Presented in chart form are the water levels versus the levels of NAPL in NR-2 during the Accelerated NAPL Recovery efforts in 2007.



NAPL Recovery, Gallons

Historical NAPL recoveries from the on Site NAPL Recovery Wells.

	2001	2002	2003	2004	2005	2006	2007	Totals
NR-1	55	0	60	0	0	30	85	230
NR-2	200	1,490	1,355	12,151	18,153	8,738	9,421	51,508
NR-3	40	0	0	0	0	10	42	92
NR-4	0	0	0	0	0	0	0	0
NR-5	40	0	20	0	0	10	36	106
NR-7	0	0	0	0	0	0	0	0
NR-8	0	0	5	0	0	8	43	56
NR-10	0	0	0	0	0	0	0	0
Total	335	1,490	1,440	12,151	18,153	8,796	9,627	51,992

4.0 SITE MAINTENANCE AND INSPECTIONS

4.1 SITE INSPECTIONS

Annual Site Inspection was held on May 30, 2007 with representatives from NYSDEC and GSHI. The Site inspection reviews Remedial Action System Components to ensure Site compliance.

The inspection covered all portions of the landfill remediation including the APL Collection System, APL Discharge System, Landfill Cap, Bulkhead, and Storm Sewer.

NYSDEC comments from the Site walkthrough were positive on the condition and the up keep of the Site. Additional requests conveyed during the walkthrough were as follows:

- Mercury to be added to sampling analyses. Parameter was added to the next sampling round (June-07).
- Gradient well parings PZ-07 & PCM-07. Replace well PCM-07 in a shallower depth so that it will corresponds to inner PZ-07 well and be reflective other gradient of the area. Workplan was submitted to NYSDEC to replace well PCM-07. Workplan was implemented October of 2007 with installation of replacement well PCM-07R.
- Charted data of PZ-08/PCM-08 & PZ-09/PCM-09, which included the latest levels done in May-2007. The data presented showed that inner well to be "dry" but the elevations were still lower than the outer wells and maintaining an inward gradients towards the Site. NYSDEC agreed based on the information presented to them that gradient was being achieved.

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. All pumps and on site control equipment were maintained throughout the year with scheduled preventive maintenance to ensure all equipment was functioning properly.

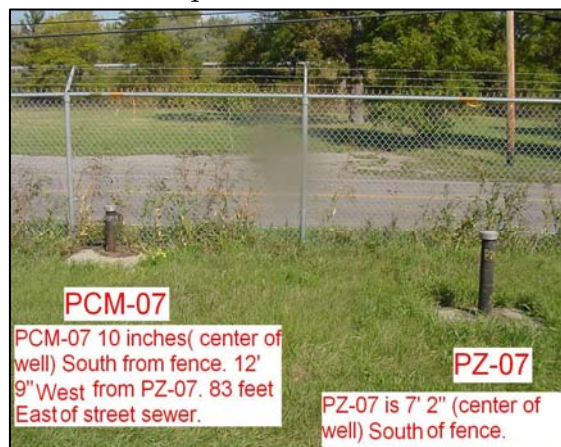
HPDE forcemain that delivers the leachate from the 102nd St. Landfill to the LCTF was updated at the discharge inside PC-3 at the LCTF. The update included lengthening and capping the secondary HPDE pipe to ensure that leachate could not back up in to the secondary containment pipe. Additionally a sample port was modified to allow for sampling events.

A level probe and local read out was installed on the NAPL tanker trailer to verify levels of NAPL in the tanker. The level probe has been calibrated to the tanker and to optimum fill level of the tanker.

A relay output card was replaced. The card is part of the PLC control system on site, which transmits data back to Love Canal control room.

NYSDEC approved work plan to replace PCM-07 with PCM-07R was implemented October-2007. The work plan (PCM07 Work Plan 10-9-2007) outlined both Abandonment and Installation of well PCM-07.

PCM-07 Abandonment. Monitoring well PCM-07 was abandoned in accordance with the New York State Department of Environmental Conservation (NYSDEC) Monitoring Well Decommissioning Policy. Following the flow chart in the NYSDEC policy, casing pulling is the selected method of well abandonment for monitoring well PCM-07.



PCM-07R Installation. Monitoring well PCM-07 was replaced with monitoring well PCM-07R. PCM-07R will be of similar construction as PCM-07. Monitoring well PCM-07R will be located less than 10 feet east of the PCM-07 location. Before drilling of monitoring well PCM-07R, the ground surface at this location was surveyed to insure proper well screen placement. A borehole was advanced with 4 1/4-inch hollow stem augers to a depth of 564 feet AMSL (approximately 14 feet bgs). During auger advancement, continuous split spoon sampling was conducted. The soil samples will be classified using a modified Unified Soil Classification System (USCS). Once the target depth was achieved, the monitoring well was installed as outlined the submitted work plan.

Replacement of PCM-07



PZ-07 foreground PCM-07R Background



PCM-07R



4.3 SITE BEAUTIFICATION/WILDLIFE

Wildflowers have matured along the western perimeter of the Site. Efforts continue to maintain the bluebird houses and bat boxes at the northern and southern corners of the Site. Wildlife/Beautification enhancements to the site continue to provide wildlife habitat as a beneficial reuse.



5.0 CONCLUSION

The 2007 data indicate that there was no significant change in chemical and hydrological conditions at the Site. A total of 300,074 gallons of APL were removed from the site and pumped to the LCTF. A total of 9,627 gallons of NAPL was recovered, which was sent off Site for incineration. The forcemain system continues to pump sufficient leachate from the landfill so as to maintain an inward gradient across the slurry wall. The slurry wall is functioning as designed, preventing off-Site migration and influx of groundwater.

FIGURES

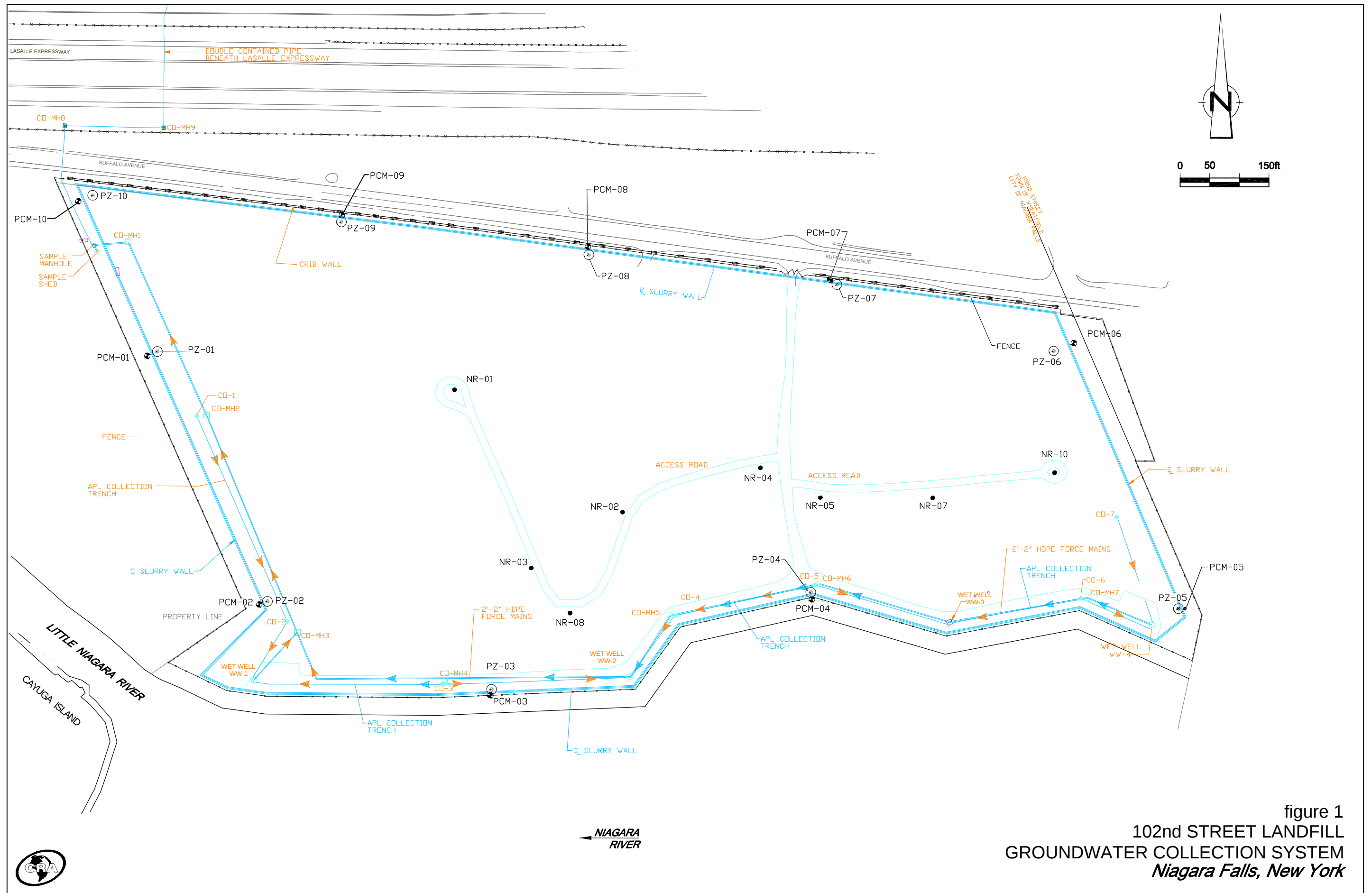


figure 1
102nd STREET LANDFILL
GROUNDWATER COLLECTION SYSTEM
Niagara Falls, New York



TABLES

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

Wells	Elevations		Depth ft.	3/28/07	5/31/07	8/9/07	12/12/07	Inward Gradients
	TOC AMSL	Bottom AMSL						
PCM-01	578.24	549.05	29.2	567.79	566.94	566.77	566.71	
PZ-01	582.21	549.64	32.6	563.72	563.81	563.80	563.89	
Gradients				-4.07	-3.13	-2.97	-2.82	4
PCM-02	577.24	547.9	29.3	567.33	566.72	565.98	566.03	
PZ-02	577.92	548.43	29.5	562.29	562.51	562.54	562.39	
Gradients				-5.04	-4.21	-3.44	-3.64	4
PCM-03	576.81	545.15	31.7	562.92	563.71	563.80	562.97	
PZ-03	576.68	545.63	31.1	561.80	561.88	562.05	562.59	
Gradients				-1.12	-1.83	-1.75	-0.38	4
PCM-04	575.73	545.74	30.0	563.09	563.99	563.94	563.03	
PZ-04	576.96	545.63	31.3	562.26	562.44	562.48	562.36	
Gradients				-0.83	-1.55	-1.46	-0.67	4
PCM-05	575.93	550	25.9	565.33	564.03	563.22	563.53	
PZ-05	576.87	550.5	26.4	561.81	562.01	562.05	561.76	
Gradients				-3.52	-2.02	-1.17	-1.77	4
PCM-06	580.25	566.5	13.8	568.60	569.00	569.91	569.98	
PZ-06	584.66	564.05	20.6	564.76	564.81	564.71	564.76	
Gradients				-3.84	-4.19	-5.20	-5.22	4
PCM-07/07R *	578.8	557.63	21.2	566.39	565.58	565.54	563.86	
PZ-07	579.1	564.8	14.3	566.92	565.48	566.74	566.28	
Gradients				0.53	-0.10	1.20	2.42	1
PCM-08	579.32	564.43	14.9	569.80	567.74	568.14	570.69	
PZ-08	580.99	565.38	15.6	566.05	566.06	566.05	566.05	
Gradients				-3.75	-1.68	-2.09	-4.64	4
PCM-09	578.99	567.87	11.1	572.59	570.75	570.74	571.37	
PZ-09	580.67	566.28	14.4	566.42	566.43	566.41	566.39	
Gradients				-6.17	-4.32	-4.33	-4.98	4
PCM-10	579.4	556.39	23.0	567.80	567.09	566.17	566.13	
PZ-10	581.65	561.56	20.1	565.02	564.23	565.08	564.87	
Gradients				-2.78	-2.86	-1.09	-1.26	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.

* PCM-07R installed October-2007 Replaces PCM-07.

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

<i>Parameter</i>	<i>NYSDEC Class GA GW Criteria</i>	<i>Survey Level</i>	<i>Unit</i>	<i>Well</i>	<i>PCBM-01</i>	<i>PCBM-01</i>
				<i>Sample ID:</i>	<i>PCBM-01-607</i>	<i>PCBM-01-1107</i>
				<i>Date:</i>	<i>6/14/2007</i>	<i>11/8/2007</i>
<i>Volatiles</i>						
1,2,3-Trichlorobenzene	5	10	µg/L		.5 U	2.5 U
1,2,4-Trichlorobenzene	5	10	µg/L		.5 U	2.5 U
1,2-Dichlorobenzene	3	10	µg/L		.5 U	2.5 U
1,4-Dichlorobenzene	3	10	µg/L		.5 U	2.5 U
2-Chlorotoluene	5	5	µg/L		.5 U	2.5 U
Benzene	1	5	µg/L		.5 U	2.5 U
Chlorobenzene	5	5	µg/L		.5 U	0.98 J
<i>Semi-Volatiles</i>						
1,2,4,5-Tetrachlorobenzene	5	10	µg/L		10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L		10 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L		10 U	5.0 U
2,5-Dichlorophenol	1	10	µg/L		10 U	5.0 U
2-Chlorophenol	1	10	µg/L		10 U	5.0 U
4-Chlorophenol	1	10	µg/L		10 U	5.0 U
Phenol	1	10	µg/L		10 UJ	5.0 U
<i>Pesticides</i>						
alpha-BHC	0.01	10	µg/L		0.042 J	0.054
beta-BHC	0.04	10	µg/L		0.013 J	0.013 J
delta-BHC	0.04	10	µg/L		0.02 J	0.017 J
gamma-BHC (Lindane)	0.05	10	µg/L		0.029 J	0.033 J
<i>Metals</i>						
Arsenic	25	50	µg/L		10 U	10.0 U
Mercury	0.7	0.10	µg/L		.2 U	0.20 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)

<i>Parameter</i>	<i>NYSDEC Class GA GW Criteria</i>	<i>Survey Level</i>	<i>Unit</i>	<i>Well</i>	<i>PCBM-02</i>	<i>PCBM-02</i>	<i>PCBM-02</i>
				<i>Sample ID:</i>	<i>PCBM-02-607</i>	<i>PCBM-02-1107</i>	<i>PCM-12-1107</i>
				<i>Date:</i>	<i>6/18/2007</i>	<i>11/9/2007</i>	<i>11/9/2007</i> <i>(Duplicate)</i>
<i>Volatiles</i>							
1,2,3-Trichlorobenzene	5	10	µg/L		6.3 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	5	10	µg/L		6.3 U	0.18 J	0.50 U
1,2-Dichlorobenzene	3	10	µg/L		6.3 U	0.50 U	0.50 U
1,4-Dichlorobenzene	3	10	µg/L		6.3 U	0.50 U	0.50 U
2-Chlorotoluene	5	5	µg/L		6.3 U	1.2 U	0.50 U
Benzene	1	5	µg/L		6.3 U	0.50 U	0.50 U
Chlorobenzene	5	5	µg/L		6.3 U	0.50 U	0.50 U
<i>Semi-Volatiles</i>							
1,2,4,5-Tetrachlorobenzene	5	10	µg/L		10 U	5.0 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L		10 U	5.0 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L		10 U	5.0 U	5.0 U
2,5-Dichlorophenol	1	10	µg/L		10 U	5.0 U	5.0 U
2-Chlorophenol	1	10	µg/L		10 U	5.0 U	5.0 U
4-Chlorophenol	1	10	µg/L		10 U	5.0 U	5.0 U
Phenol	1	10	µg/L		10 U	5.0 U	5.0 U
<i>Pesticides</i>							
alpha-BHC	0.01	10	µg/L		.05 U	0.050 U	0.050 U
beta-BHC	0.04	10	µg/L		.05 U	0.050 U	0.050 U
delta-BHC	0.04	10	µg/L		.05 U	0.050 UJ	0.050 UJ
gamma-BHC (Lindane)	0.05	10	µg/L		.05 U	0.050 U	0.050 U
<i>Metals</i>							
Arsenic	25	50	µg/L		10 U	10.0 U	10.0 U
Mercury	0.7	0.10	µg/L		.2 U	0.20 U	0.20 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)

			Well	PCBM-03	PCBM-03
			Sample ID:	PCBM-03-607	PCBM-03-1107
			Date:	6/19/2007	11/12/2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
Volatiles					
1,2,3-Trichlorobenzene	5	10	µg/L	.5 U	0.50 U
1,2,4-Trichlorobenzene	5	10	µg/L	.5 U	0.50 U
1,2-Dichlorobenzene	3	10	µg/L	.5 U	0.50 U
1,4-Dichlorobenzene	3	10	µg/L	.5 U	0.50 U
2-Chlorotoluene	5	5	µg/L	.5 U	0.50 U
Benzene	1	5	µg/L	.5 U	0.50 U
Chlorobenzene	5	5	µg/L	.5 U	0.50 U
Semi-Volatiles					
1,2,4,5-Tetrachlorobenzene	5	10	µg/L	10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L	10 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L	10 U	5.0 U
2,5-Dichlorophenol	1	10	µg/L	10 U	5.0 U
2-Chlorophenol	1	10	µg/L	10 U	5.0 U
4-Chlorophenol	1	10	µg/L	10 U	5.0 U
Phenol	1	10	µg/L	10 UJ	5.0 U
Pesticides					
alpha-BHC	0.01	10	µg/L	.05 U	0.050 U
beta-BHC	0.04	10	µg/L	.05 U	0.050 U
delta-BHC	0.04	10	µg/L	.05 U	0.050 UJ
gamma-BHC (Lindane)	0.05	10	µg/L	.05 U	0.050 U
Metals					
Arsenic	25	50	µg/L	10 U	10.0 U
Mercury	0.7	0.10	µg/L	.2 U	0.20 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)

<i>Parameter</i>	<i>NYSDEC Class GA GW Criteria</i>	<i>Survey Level</i>	<i>Unit</i>	<i>Well</i>	<i>PCM-01</i>	<i>PCM-01</i>
				<i>Sample ID:</i>	<i>PCM-01-607</i>	<i>PCM-01-1107</i>
				<i>Date:</i>	<i>6/19/2007</i>	<i>11/13/2007</i>
<i>Volatiles</i>						
1,2,3-Trichlorobenzene	5	10	µg/L		.5 U	0.50 UJ
1,2,4-Trichlorobenzene	5	10	µg/L		.5 U	0.50 UJ
1,2-Dichlorobenzene	3	10	µg/L		.5 U	0.50 UJ
1,4-Dichlorobenzene	3	10	µg/L		.5 U	0.50 UJ
2-Chlorotoluene	5	5	µg/L		.5 U	0.50 UJ
Benzene	1	5	µg/L		.5 U	0.50 UJ
Chlorobenzene	5	5	µg/L		.5 U	0.50 UJ
<i>Semi-Volatiles</i>						
1,2,4,5-Tetrachlorobenzene	5	10	µg/L		10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L		10 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L		10 U	5.0 U
2,5-Dichlorophenol	1	10	µg/L		10 U	5.0 U
2-Chlorophenol	1	10	µg/L		10 U	5.0 U
4-Chlorophenol	1	10	µg/L		10 U	5.0 U
Phenol	1	10	µg/L		10 UJ	5.0 U
<i>Pesticides</i>						
alpha-BHC	0.01	10	µg/L		.05 UJ	0.050 UJ
beta-BHC	0.04	10	µg/L		.05 UJ	0.050 UJ
delta-BHC	0.04	10	µg/L		.05 UJ	0.050 UJ
gamma-BHC (Lindane)	0.05	10	µg/L		.05 UJ	0.050 UJ
<i>Metals</i>						
Arsenic	25	50	µg/L		10 U	10.0 U
Mercury	0.7	0.10	µg/L		.2 U	0.20 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)

			Well	PCM-02	PCM-02
			Sample ID:	PCM-02-607	PCM-02-1107
			Date:	6/14/2007	11/8/2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
Volatiles					
1,2,3-Trichlorobenzene	5	10	µg/L	.5 U	0.50 U
1,2,4-Trichlorobenzene	5	10	µg/L	.5 U	0.50 U
1,2-Dichlorobenzene	3	10	µg/L	.5 U	0.50 U
1,4-Dichlorobenzene	3	10	µg/L	0.27 J	0.33 J
2-Chlorotoluene	5	5	µg/L	.5 U	0.85 U
Benzene	1	5	µg/L	0.14 J	0.19 J
Chlorobenzene	5	5	µg/L	.5 U	0.50 U
Semi-Volatiles					
1,2,4,5-Tetrachlorobenzene	5	10	µg/L	10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L	10 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L	10 U	5.0 U
2,5-Dichlorophenol	1	10	µg/L	10 U	5.0 U
2-Chlorophenol	1	10	µg/L	10 U	5.0 U
4-Chlorophenol	1	10	µg/L	10 U	5.0 U
Phenol	1	10	µg/L	10 U	5.0 U
Pesticides					
alpha-BHC	0.01	10	µg/L	.05 UJ	0.050 U
beta-BHC	0.04	10	µg/L	.05 UJ	0.01 J
delta-BHC	0.04	10	µg/L	.05 UJ	0.050 U
gamma-BHC (Lindane)	0.05	10	µg/L	.05 UJ	0.050 U
Metals					
Arsenic	25	50	µg/L	10 U	11.2
Mercury	0.7	0.10	µg/L	.2 U	0.20 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)

			Well	PCM-03	PCM-03
			Sample ID:	PCM-03-607	PCM-03-1107
			Date:	6/14/2007	11/8/2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
Volatiles					
1,2,3-Trichlorobenzene	5	10	µg/L	250 U	130 U
1,2,4-Trichlorobenzene	5	10	µg/L	250 U	130 U
1,2-Dichlorobenzene	3	10	µg/L	68 J	67 J
1,4-Dichlorobenzene	3	10	µg/L	300	310
2-Chlorotoluene	5	5	µg/L	250 U	130 U
Benzene	1	5	µg/L	70 J	48 J
Chlorobenzene	5	5	µg/L	3900	4000
Semi-Volatiles					
1,2,4,5-Tetrachlorobenzene	5	10	µg/L	10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L	10 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L	15	16
2,5-Dichlorophenol	1	10	µg/L	10 U	5.0 U
2-Chlorophenol	1	10	µg/L	20	19
4-Chlorophenol	1	10	µg/L	44	5.0 U
Phenol	1	10	µg/L	10 U	0.72 J
Pesticides					
alpha-BHC	0.01	10	µg/L	.5 U	0.25 U
beta-BHC	0.04	10	µg/L	0.08 J	0.076 J
delta-BHC	0.04	10	µg/L	0.75	0.6 J
gamma-BHC (Lindane)	0.05	10	µg/L	.5 U	0.25 U
Metals					
Arsenic	25	50	µg/L	10 UJ	10.0 U
Mercury	0.7	0.10	µg/L	.2 UJ	0.20 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-04	PCM-04	PCM-04
				Sample ID:	PCM-04-607	PCM-12-607	PCM-04-1107
				Date:	6/18/2007	6/18/2007	11/9/2007
						Duplicate	
Volatiles							
1,2,3-Trichlorobenzene	5	10	µg/L		310 U	310 U	210 U
1,2,4-Trichlorobenzene	5	10	µg/L		310 U	310 U	210 U
1,2-Dichlorobenzene	3	10	µg/L		310 U	310 U	210 U
1,4-Dichlorobenzene	3	10	µg/L		330	320	300
2-Chlorotoluene	5	5	µg/L		310 U	310 U	210 U
Benzene	1	5	µg/L		110 J	100 J	48 J
Chlorobenzene	5	5	µg/L		10000	11000	8600
Semi-Volatiles							
1,2,4,5-Tetrachlorobenzene	5	10	µg/L		10 U	10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L		10 U	10 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L		10 U	10 U	1.2 J
2,5-Dichlorophenol	1	10	µg/L		10 U	10 U	5.0 U
2-Chlorophenol	1	10	µg/L		14	15	5.0 U
4-Chlorophenol	1	10	µg/L		26	26	25
Phenol	1	10	µg/L		10 U	10 U	5.0 U
Pesticides							
alpha-BHC	0.01	10	µg/L		0.0081 J	.05 U	0.050 U
beta-BHC	0.04	10	µg/L		0.14 J	0.16	0.050 U
delta-BHC	0.04	10	µg/L		.05 UJ	.05 U	0.025 J
gamma-BHC (Lindane)	0.05	10	µg/L		.05 UJ	.05 U	0.050 U
Metals							
Arsenic	25	50	µg/L		10 U	10 U	10.0 U
Mercury	0.7	0.10	µg/L		0.10 J	.2 U	0.11 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)

			Well	PCM-05	PCM-05
			Sample ID:	PCM-05-607	PCM-05-1107
			Date:	6/18/2007	11/9/2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
Volatiles					
1,2,3-Trichlorobenzene	5	10	µg/L	.5 U	1.8 U
1,2,4-Trichlorobenzene	5	10	µg/L	.5 U	1.8 U
1,2-Dichlorobenzene	3	10	µg/L	.5 U	1.8 U
1,4-Dichlorobenzene	3	10	µg/L	.5 U	1.8 U
2-Chlorotoluene	5	5	µg/L	.5 U	1.8 U
Benzene	1	5	µg/L	4.9	0.68 J
Chlorobenzene	5	5	µg/L	100	61
Semi-Volatiles					
1,2,4,5-Tetrachlorobenzene	5	10	µg/L	10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L	10 U	R
2,4-Dichlorophenol	1	10	µg/L	10 U	R
2,5-Dichlorophenol	1	10	µg/L	10 U	R
2-Chlorophenol	1	10	µg/L	10 U	R
4-Chlorophenol	1	10	µg/L	10 U	R
Phenol	1	10	µg/L	10 U	R
Pesticides					
alpha-BHC	0.01	10	µg/L	.05 U	0.050 U
beta-BHC	0.04	10	µg/L	.05 U	0.050 U
delta-BHC	0.04	10	µg/L	.05 U	0.050 UJ
gamma-BHC (Lindane)	0.05	10	µg/L	.05 U	0.050 U
Metals					
Arsenic	25	50	µg/L	10 U	10.0 U
Mercury	0.7	0.10	µg/L	.2 U	0.20 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)

			Well Sample ID: Date:	PCM-06 Dry Jun-2007	PCM-06 Dry Nov-2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
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	-	-
Mercury	0.7	0.10	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)

			Well	PCM-07	PCM-07R
			Sample ID:	PCM-07-607	Dry
			Date:	6/19/2007	Nov-2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
Volatiles					
1,2,3-Trichlorobenzene	5	10	µg/L	.5 U	-
1,2,4-Trichlorobenzene	5	10	µg/L	.5 U	-
1,2-Dichlorobenzene	3	10	µg/L	.5 U	-
1,4-Dichlorobenzene	3	10	µg/L	.5 U	-
2-Chlorotoluene	5	5	µg/L	.5 U	-
Benzene	1	5	µg/L	.5 U	-
Chlorobenzene	5	5	µg/L	.5 U	-
Semi-Volatiles					
1,2,4,5-Tetrachlorobenzene	5	10	µg/L	10 U	-
2,4,5-Trichlorophenol	1	50	µg/L	10 U	-
2,4-Dichlorophenol	1	10	µg/L	10 U	-
2,5-Dichlorophenol	1	10	µg/L	10 U	-
2-Chlorophenol	1	10	µg/L	10 U	-
4-Chlorophenol	1	10	µg/L	10 U	-
Phenol	1	10	µg/L	10 UJ	-
Pesticides					
alpha-BHC	0.01	10	µg/L	0.013 J	-
beta-BHC	0.04	10	µg/L	.05 U	-
delta-BHC	0.04	10	µg/L	0.011 J	-
gamma-BHC (Lindane)	0.05	10	µg/L	.05 U	-
Metals					
Arsenic	25	50	µg/L	10 U	-
Mercury	0.7	0.10	µg/L	.2 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-08	PCM-08
				Sample ID:	Dry	PCM-08-1107
				Date:	Jun-2007	11/12/2007
Volatiles						
1,2,3-Trichlorobenzene	5	10	µg/L	-	-	0.50 U
1,2,4-Trichlorobenzene	5	10	µg/L	-	-	0.50 U
1,2-Dichlorobenzene	3	10	µg/L	-	-	0.50 U
1,4-Dichlorobenzene	3	10	µg/L	-	-	0.50 U
2-Chlorotoluene	5	5	µg/L	-	-	0.50 U
Benzene	1	5	µg/L	-	-	0.50 U
Chlorobenzene	5	5	µg/L	-	-	0.50 U
Semi-Volatiles						
1,2,4,5-Tetrachlorobenzene	5	10	µg/L	-	-	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L	-	-	5.0 U
2,4-Dichlorophenol	1	10	µg/L	-	-	5.0 U
2,5-Dichlorophenol	1	10	µg/L	-	-	5.0 U
2-Chlorophenol	1	10	µg/L	-	-	5.0 U
4-Chlorophenol	1	10	µg/L	-	-	5.0 U
Phenol	1	10	µg/L	-	-	5.0 U
Pesticides						
alpha-BHC	0.01	10	µg/L	-	-	0.050 U
beta-BHC	0.04	10	µg/L	-	-	0.050 U
delta-BHC	0.04	10	µg/L	-	-	0.0073 J
gamma-BHC (Lindane)	0.05	10	µg/L	-	-	0.050 U
Metals						
Arsenic	25	50	µg/L	-	-	10.0 U
Mercury	0.7	0.10	µg/L	-	-	0.20 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)

			Well Sample ID: Date:	PCM-09 Dry 6/1/2007	PCM-09 Dry Nov-2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
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	-	-
Mercury	0.7	0.10	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)

			Well	PCM-10	PCM-10
			Sample ID:	PCM-10-607	PCM-10-1107
			Date:	6/19/2007	11/12/2007
Parameter	NYSDEC Class GA GW Criteria	Survey Level	Unit		
Volatiles					
1,2,3-Trichlorobenzene	5	10	µg/L	.5 U	0.50 U
1,2,4-Trichlorobenzene	5	10	µg/L	.5 U	0.50 U
1,2-Dichlorobenzene	3	10	µg/L	.5 U	0.50 U
1,4-Dichlorobenzene	3	10	µg/L	.5 U	0.50 U
2-Chlorotoluene	5	5	µg/L	0.53 U	0.50 U
Benzene	1	5	µg/L	.5 U	0.50 U
Chlorobenzene	5	5	µg/L	.5 U	0.50 U
Semi-Volatiles					
1,2,4,5-Tetrachlorobenzene	5	10	µg/L	10 U	5.0 U
2,4,5-Trichlorophenol	1	50	µg/L	10 U	5.0 U
2,4-Dichlorophenol	1	10	µg/L	10 U	5.0 U
2,5-Dichlorophenol	1	10	µg/L	10 U	5.0 U
2-Chlorophenol	1	10	µg/L	10 U	5.0 U
4-Chlorophenol	1	10	µg/L	10 U	5.0 U
Phenol	1	10	µg/L	10 UJ	5.0 U
Pesticides					
alpha-BHC	0.01	10	µg/L	0.014 J	0.0054 J
beta-BHC	0.04	10	µg/L	0.022 J	0.02 J
delta-BHC	0.04	10	µg/L	0.0089 J	0.050 UJ
gamma-BHC (Lindane)	0.05	10	µg/L	.05 U	0.050 U
Metals					
Arsenic	25	50	µg/L	10 U	10.0 U
Mercury	0.7	0.10	µg/L	.2 U	0.20 U

Notes:

- Not Applicable

BHC Benzene Hexachlororide

J Estimated

U Non-Detected at associated value.

APPENDIX A

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2007

MONITORING - Water Level Measurements

Month	Day	Inspector	PCM-01	PZ-01	PCM-02	PZ-02	PCM-03	PZ-03
1st Qtr.	3/28/2007	T. Blackmon	567.79	563.72	567.33	562.29	562.92	561.80
2nd Qtr.	5/31/2007	T. Blackmon	566.94	563.81	566.72	562.51	563.71	561.88
3rd Qtr.	8/9/2007	T. Blackmon	566.77	563.80	565.98	562.54	563.80	562.05
4th Qtr.	12/12/2007	T. Blackmon	566.71	563.89	566.03	562.39	562.97	562.59

Month	Day	Inspector	PCM-04	PZ-04	PCM-05	PZ-05	PCM-06	PZ-06
1st Qtr.	3/28/2007	T. Blackmon	563.09	562.26	565.33	561.81	568.60	564.76
2nd Qtr.	5/31/2007	T. Blackmon	563.99	562.44	564.03	562.01	569.00	564.81
3rd Qtr.	8/9/2007	T. Blackmon	563.94	562.48	563.22	562.05	569.91	564.71
4th Qtr.	12/12/2007	T. Blackmon	563.03	562.36	563.53	561.76	569.98	564.76

Month	Day	Inspector	PCM-07	PZ-07	PCM-08	PZ-08	PCM-09	PZ-09
1st Qtr.	3/28/2007	T. Blackmon	566.39	566.92	569.80	566.05	572.59	566.42
2nd Qtr.	5/31/2007	T. Blackmon	565.58	565.48	567.74	566.06	570.75	566.43
3rd Qtr.	8/9/2007	T. Blackmon	565.54	566.74	568.14	566.05	570.74	566.41
4th Qtr.	12/12/2007	T. Blackmon	563.86	566.28	570.69	566.05	571.37	566.39

Month	Day	Inspector	PCM-10	PZ-10
1st Qtr.	3/28/2007	T. Blackmon	567.80	565.02
2nd Qtr.	5/31/2007	T. Blackmon	567.09	564.23
3rd Qtr.	8/9/2007	T. Blackmon	566.17	565.08
4th Qtr.	12/12/2007	T. Blackmon	566.13	564.87

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2007

GROUNDWATER - Quality Monitoring

<i>Quarter</i>	<i>Date Sample Taken</i>	<i>Inspector</i>	<i>Comments</i>
1st	-		
2nd	6/14/2007	T. Blackmon	Semi-annual sampling event.
3rd	-		
4th	11/8/2007	T. Blackmon	Semi-annual sampling event.

Results of analyses are attached.

NAPL PRESENCE - Monitoring

	<i>Date</i>	<i>Inspector</i>	<i>NR-01</i>		<i>NR-02</i>		<i>NR-03</i>	
			<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>	<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>	<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>
1st Quarter	3/28/2007	T. Blackmon	2.13	25	1.87	2,200	0.23	12
2nd Quarter	5/31/2007	T. Blackmon	2.67	17	0.5	2,778	0.23	7
3rd Quarter	8/9/2007	T. Blackmon	2.17	15	0.44	2,496	0.23	10
4th Quarter	12/12/2007	T. Blackmon	0.73	28	0.66	1,948	0.23	13

	<i>Date</i>	<i>Inspector</i>	<i>NR-04</i>		<i>NR-05</i>		<i>NR-07</i>	
			<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>	<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>	<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>
1st Quarter	3/28/2007	T. Blackmon	0	0	2.47	8	0	0
2nd Quarter	5/31/2007	T. Blackmon	0	0	2.63	11	0	0
3rd Quarter	8/9/2007	T. Blackmon	0	0	2	6	0	0
4th Quarter	12/12/2007	T. Blackmon	0	0	1.4	11	0	0

	<i>Date</i>	<i>Inspector</i>	<i>NR-08</i>		<i>NR-10</i>	
			<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>	<i>Depth of NAPL (ft)</i>	<i>Gallons Removed</i>
1st Quarter	3/28/2007	T. Blackmon	1.5	10	0	0
2nd Quarter	5/31/2007	T. Blackmon	3.5	9	0	0
3rd Quarter	8/9/2007	T. Blackmon	2.76	9	0	0
4th Quarter	12/12/2007	T. Blackmon	2.71	15	0	0

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2007

OPERATION

APL COLLECTION AND DISCHARGE SYSTEM

<i>APL Flow for Previous Year (gallons)</i>	<i>APL Flow for Current Year (gallons)</i>
---	--

343,727

300,074

NAPL REMOVAL SYSTEM

<i>NAPL Removed for Previous Year (gallons)</i>	<i>NAPL Removed for Current Year (gallons)</i>
---	--

NR-01

30

85

NR-02

8738

9421

NR-03

10

42

NR-04

0

0

NR-05

10

36

NR-07

0

0

NR-08

8

43

NR-10

0

0

Total

8796

9627

Where was NAPL treated/disposed?

Facility Clean Harbors , Deer Park, Texas

Date 01/11/2007

Facility Clean Harbors , Deer Park, Texas

Date 06/12/2007

Facility Clean Harbors , Deer Park, Texas

Date 08/22/2007

Facility Clean Harbors , Deer Park, Texas

Date 11/21/2007

Facility _____

Date _____

Facility _____

Date _____

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2007

INSPECTION AND MAINTENANCE

Scheduled inspections performed:

	<i>Date</i>	<i>Inspectors</i>
May	<u>30</u>	Jeff Konsella, NYSDEC, Brian Sadowski, NYSDEC, Scott Parkhill, MSRM and Brian Downie, MSRM

Was maintenance required?

	<i>Yes</i>	<i>No</i>
May	☒	☐

What maintenance was required?

Date Performed

Clean out of drifted wood and debris out to be scheduled same previous years.

July-2007

Fence section that runs laterally to the river at the storm sewer outlet (4ft extension) was knocked down by ice and debris in the winter months. NYSDEC has no problem not replacing section, Site still secure without extension.

N/A

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

Mercury to be added to Sampling analyses. Already added to the next sampling round (June-07).

Gradient well parings PZ-07 & PCM-07. Replace well PCM-07 in a shallower depth so that it will corresponds to inner PZ-07 well and be reflective other gradient of the area. PCM-07R installed October-

Charted data of PZ-08/PCM-08 & PZ-09/PCM-09, which included the latest levels done in May-2007. The data presented showed that inner well to be "dry" but the elevations were still lower than the outer wells and maintaining an inward gradients towards the Site. NYSDEC agreed based on the information

At this time no other concerns or issues conveyed.

Form Completed By:

Brian Downie

NAME

SIGNATURE

05/30/07

DATE

FORM 1

ANNUAL OPERATION AND MAINTENANCE REPORT

102ND STREET LANDFILL SITE
NIAGARA FALLS, NEW YORK

YEAR: 2007

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

Clint Babcock
Glenn Springs Holdings, Inc.
5005 LBJ Pkwy
Dallas, TX 75244-6119

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

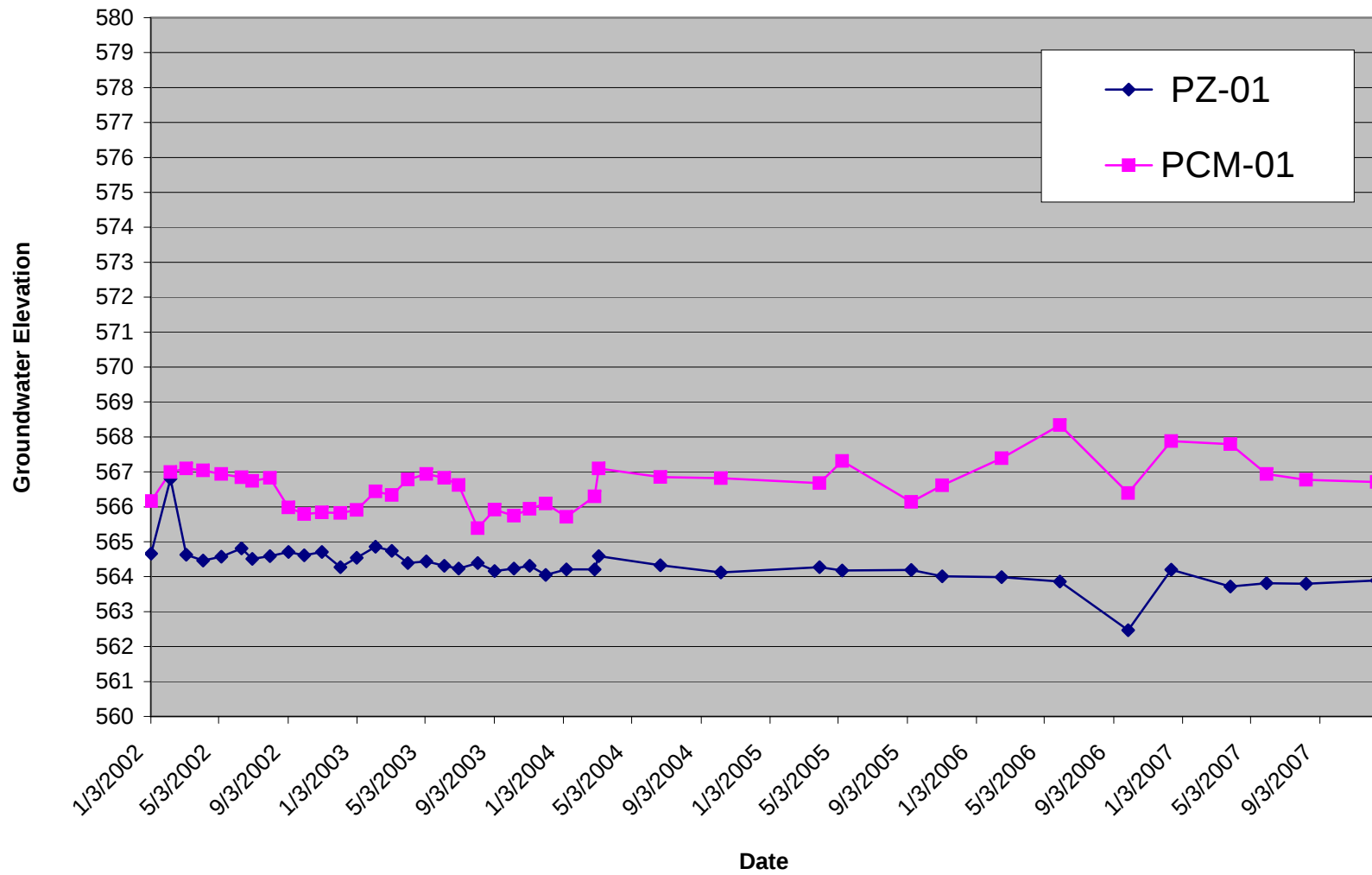
Director, Division of Environmental Remediation
New York State Dept. of Environmental Conservation
625 Broadway
8th Floor
Albany, NY 12233-7252

and

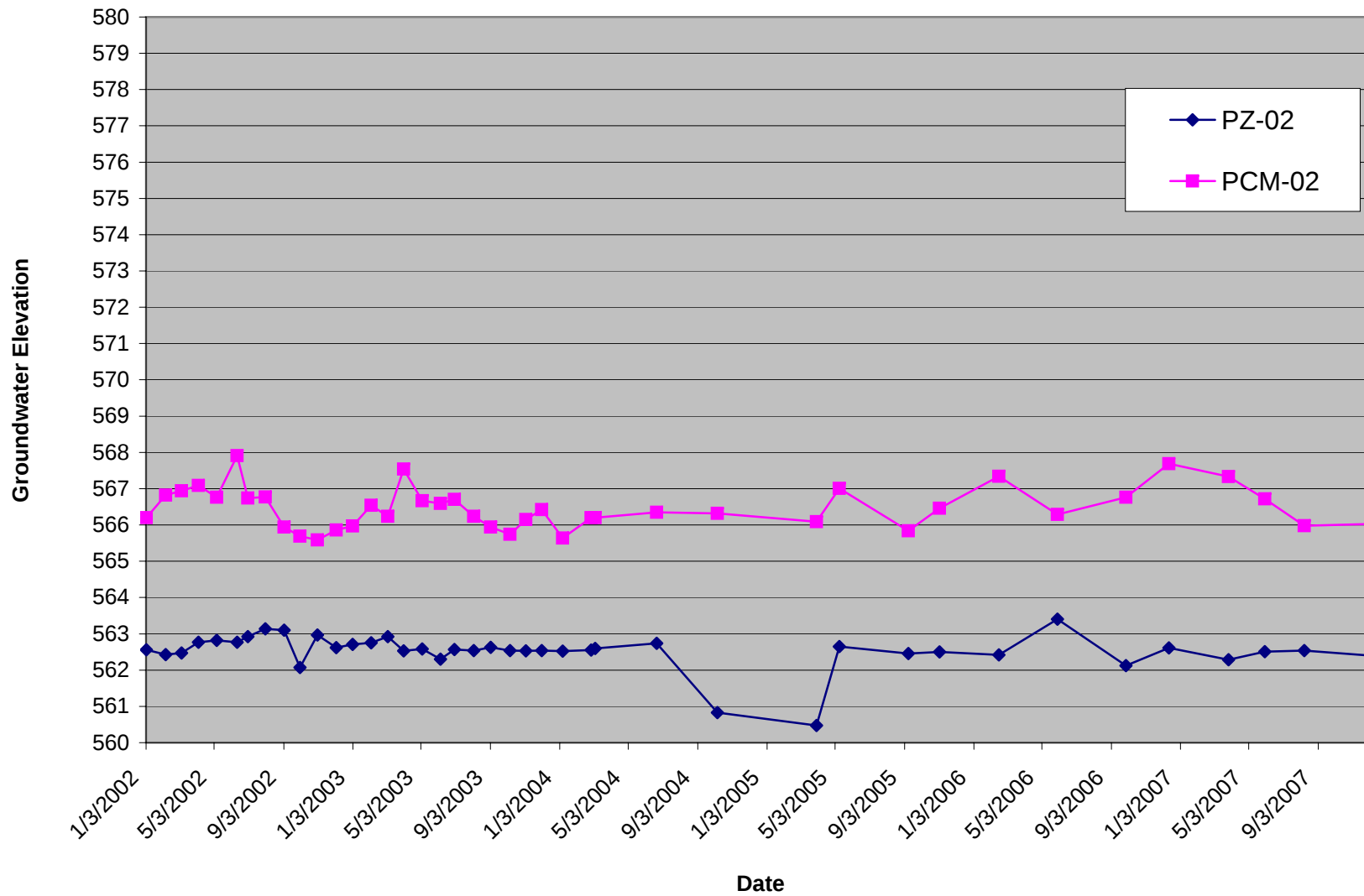
Regional Remediation Engineer
New York State Dept. of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

FORM 1

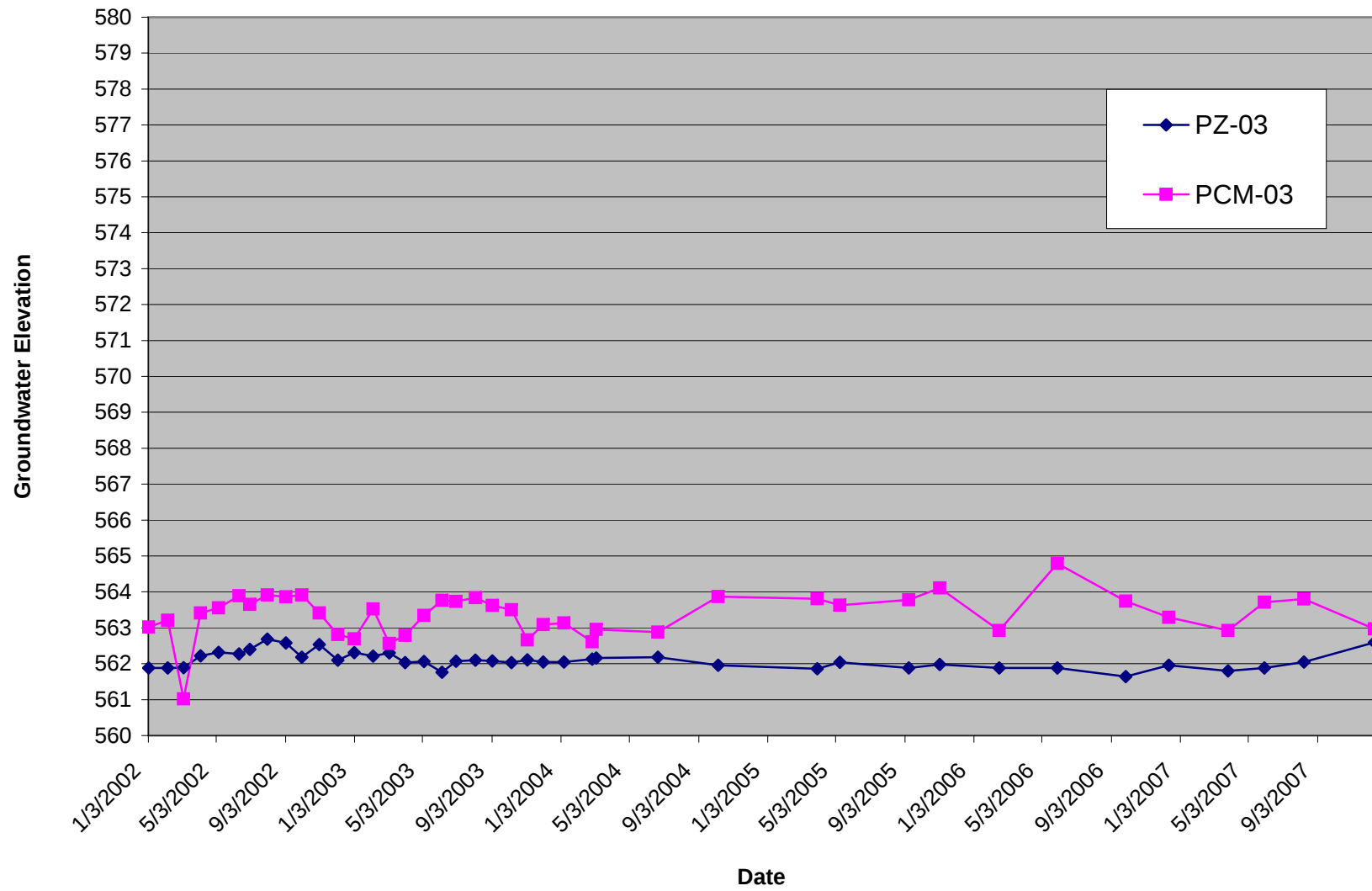
Groundwater Levels Well Pair 1



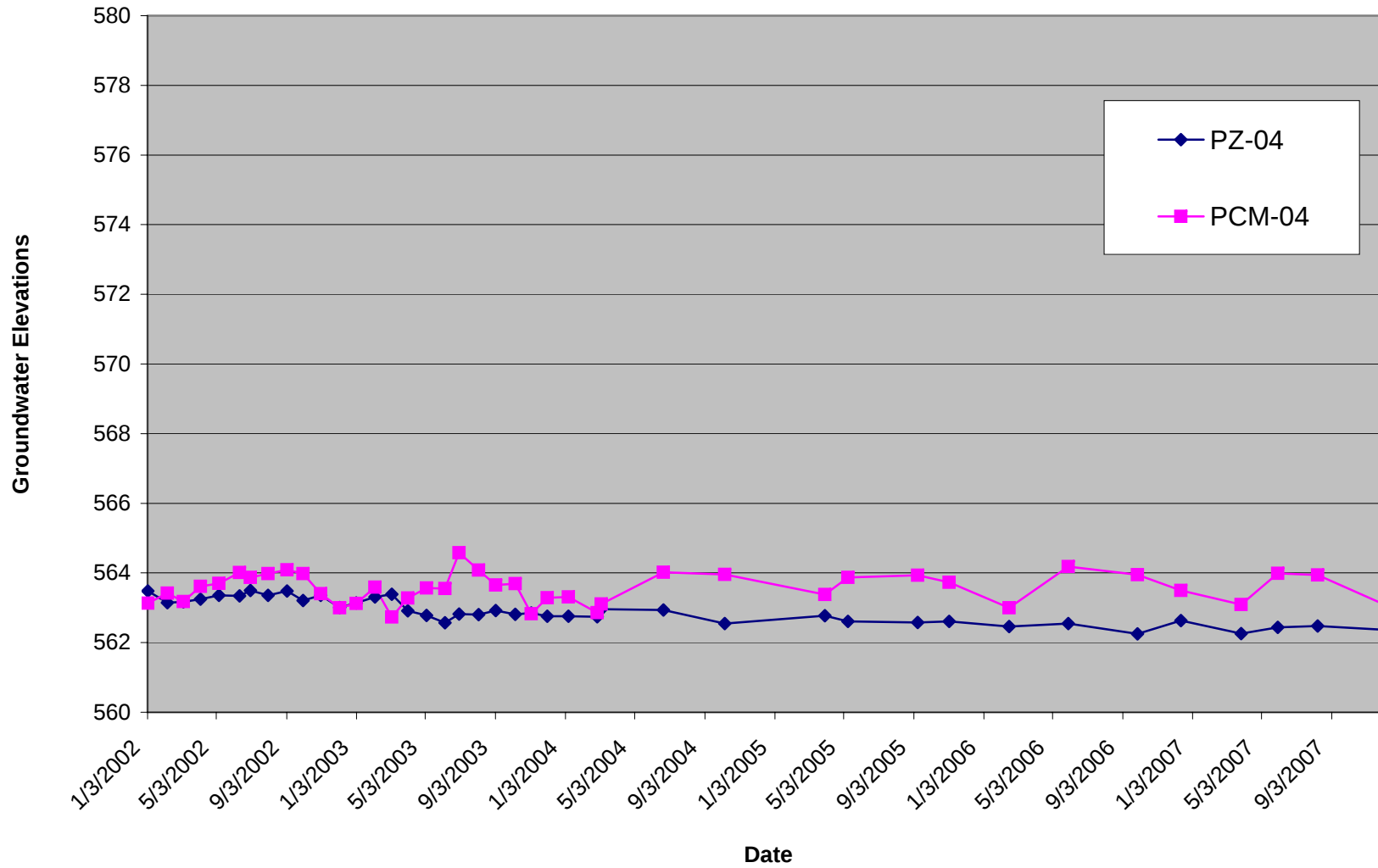
Groundwater Levels Well Pair 2



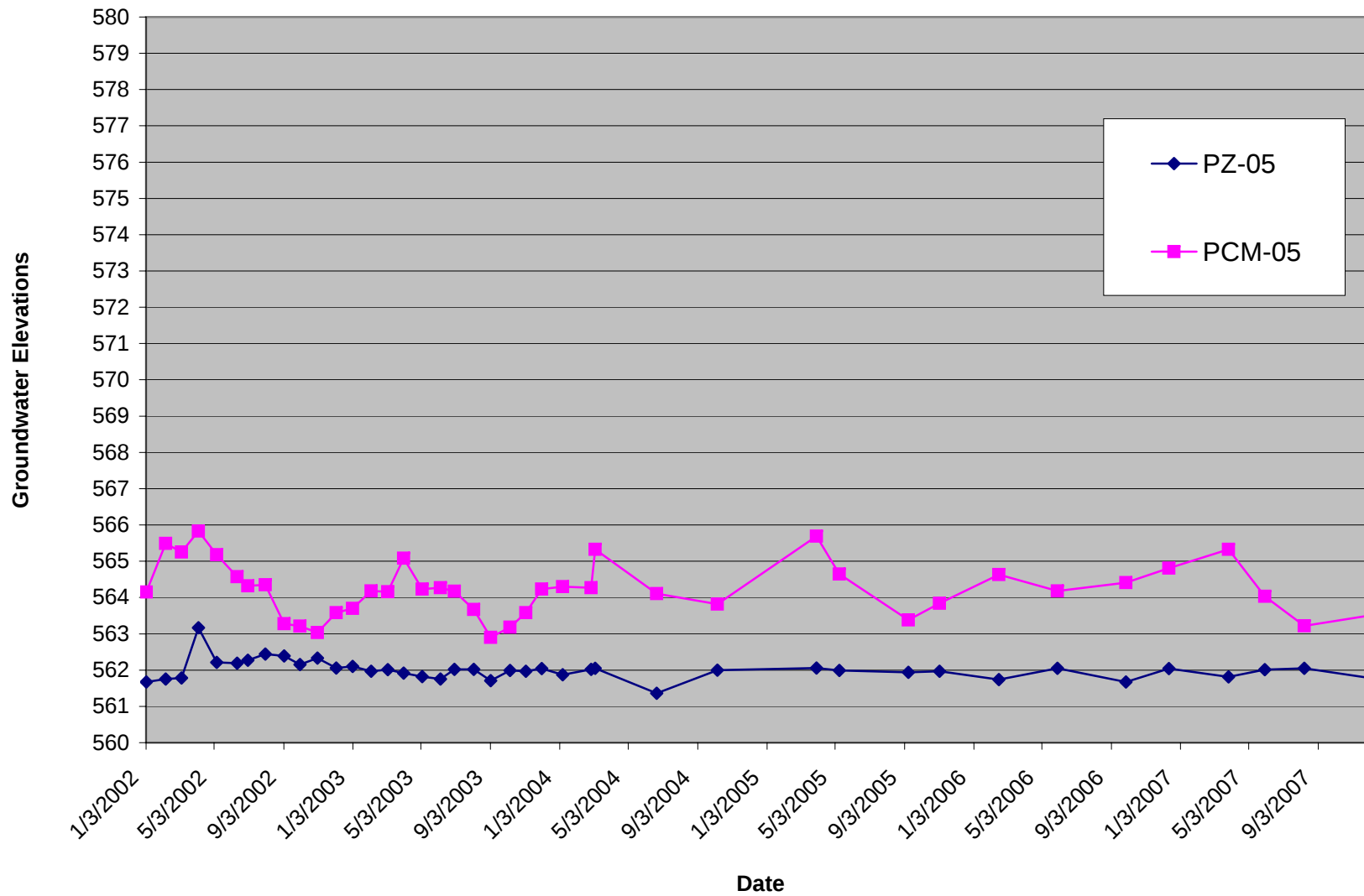
Groundwater Levels Well Pair 3



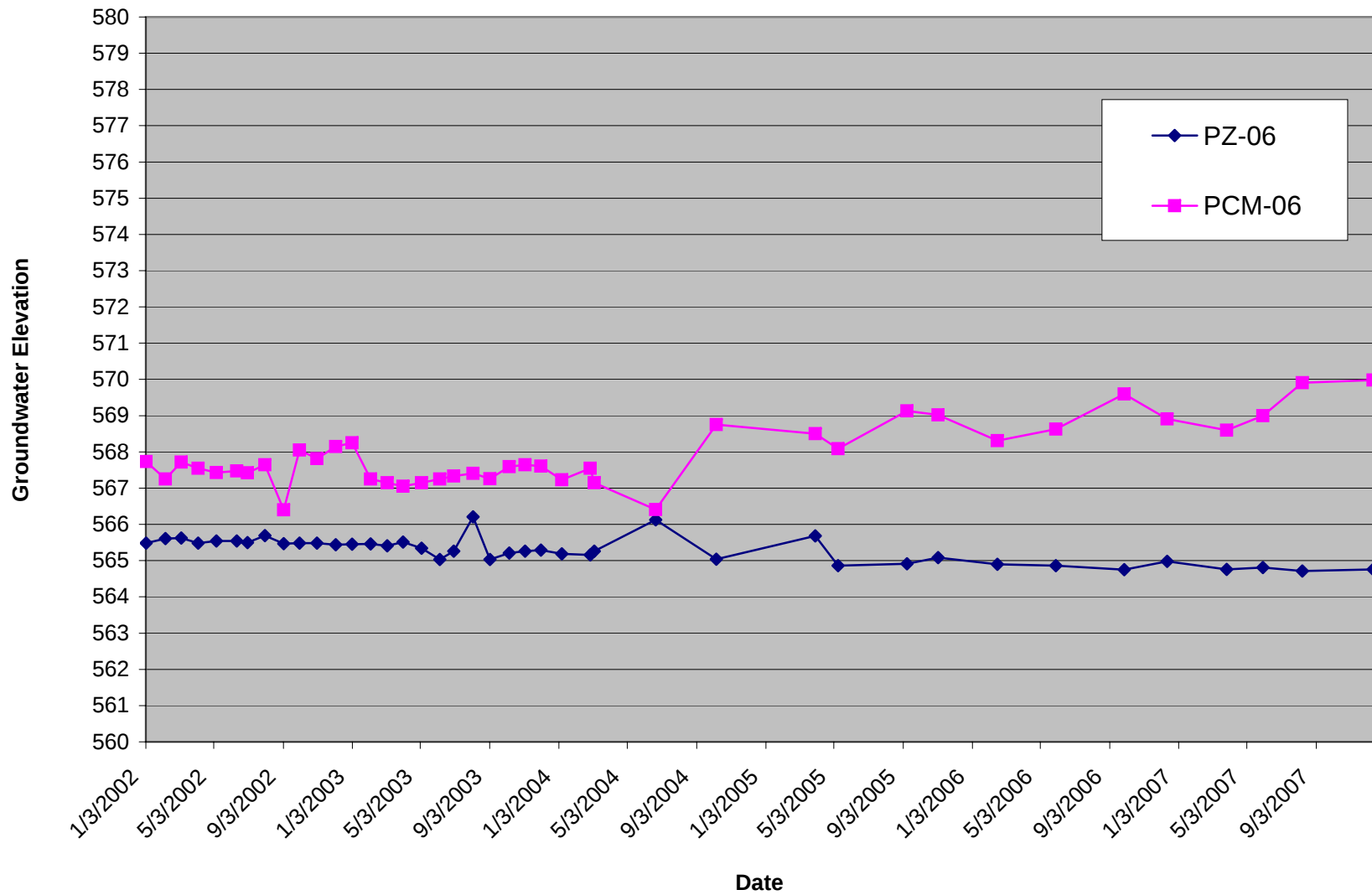
Groundwater Levels Well Pair 4



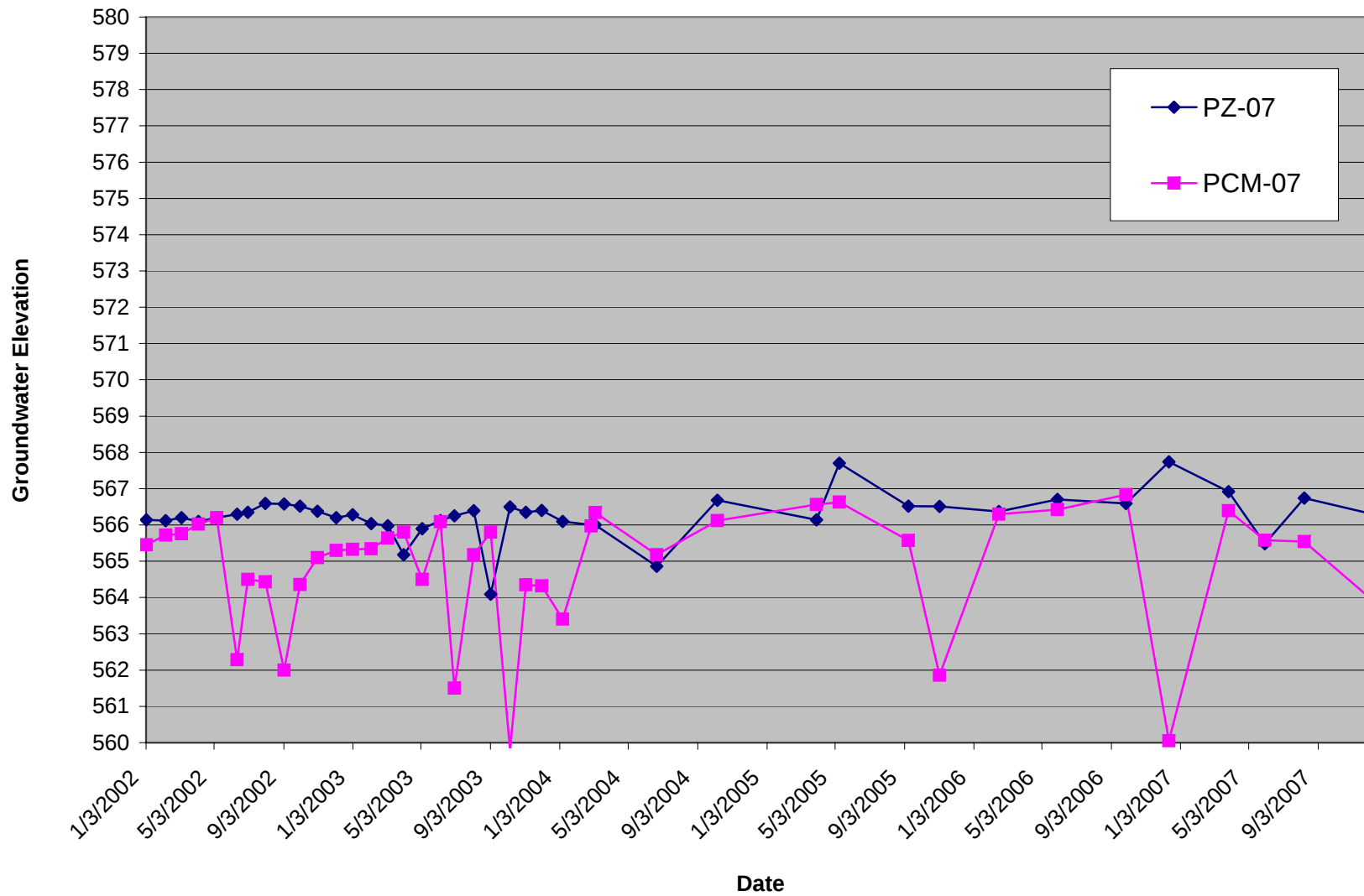
Groundwater Levels Well Pair 5



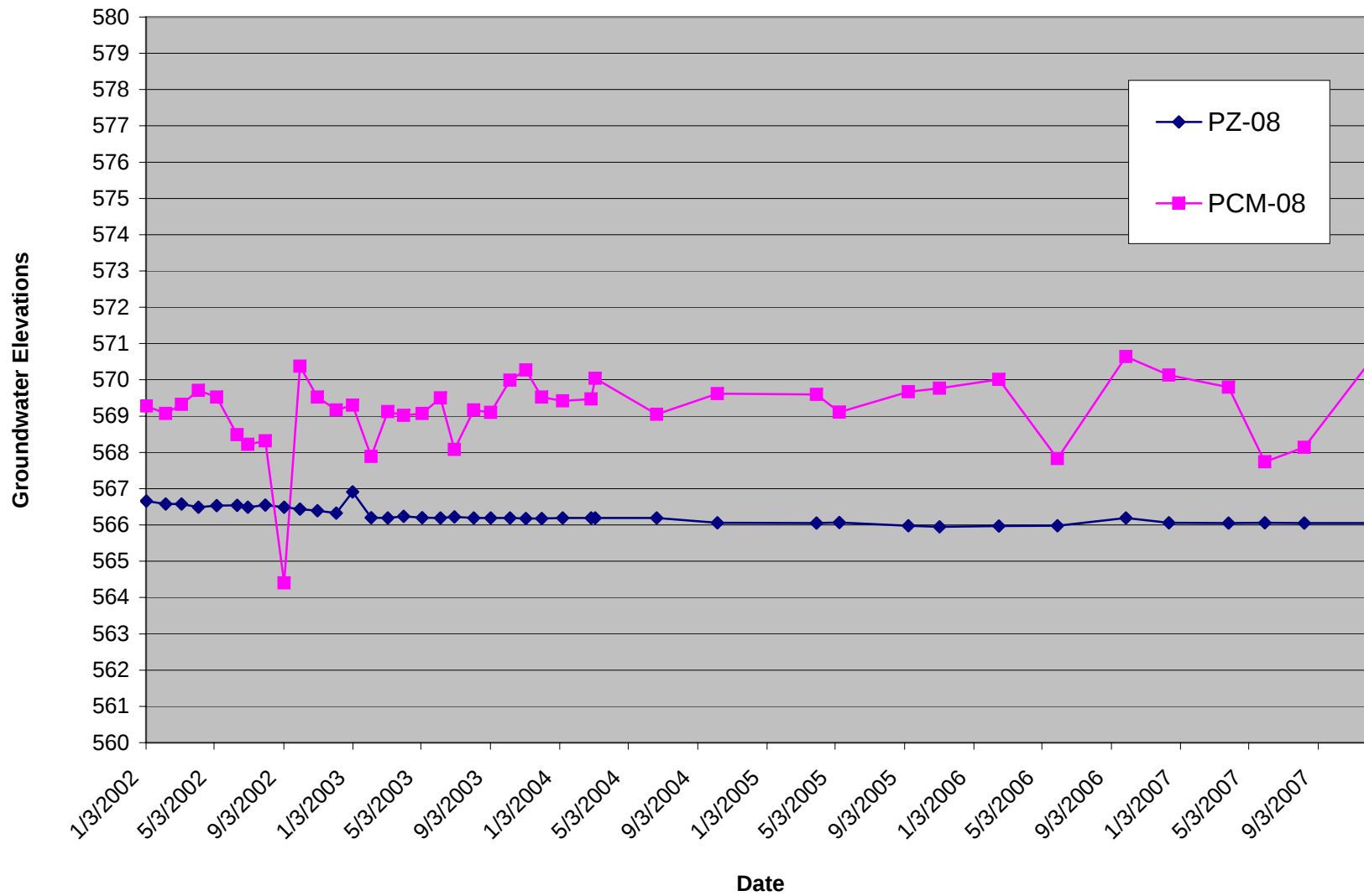
Groundwater Levels Well Pair 6



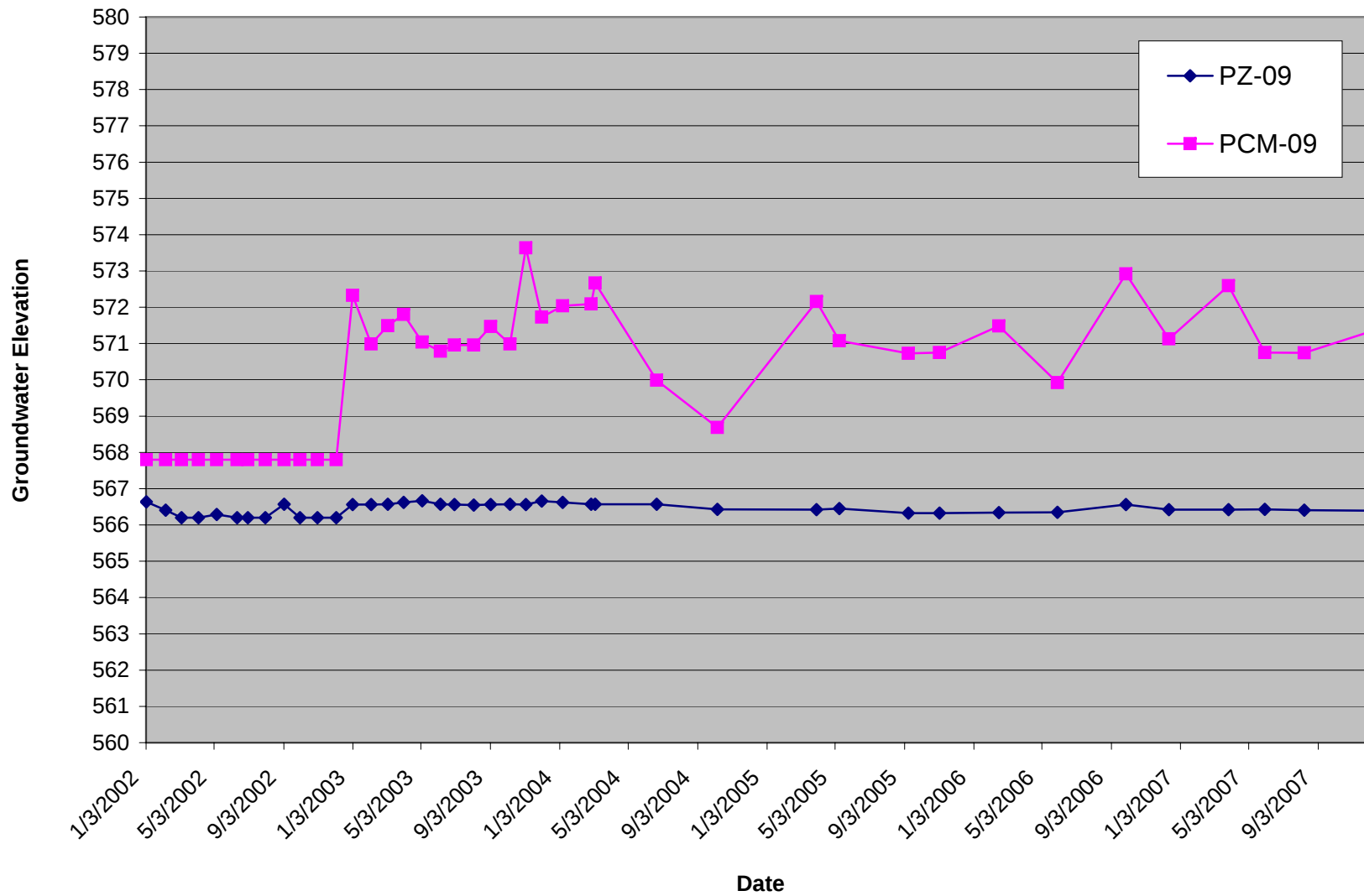
Groundwater Levels Well Pair 7



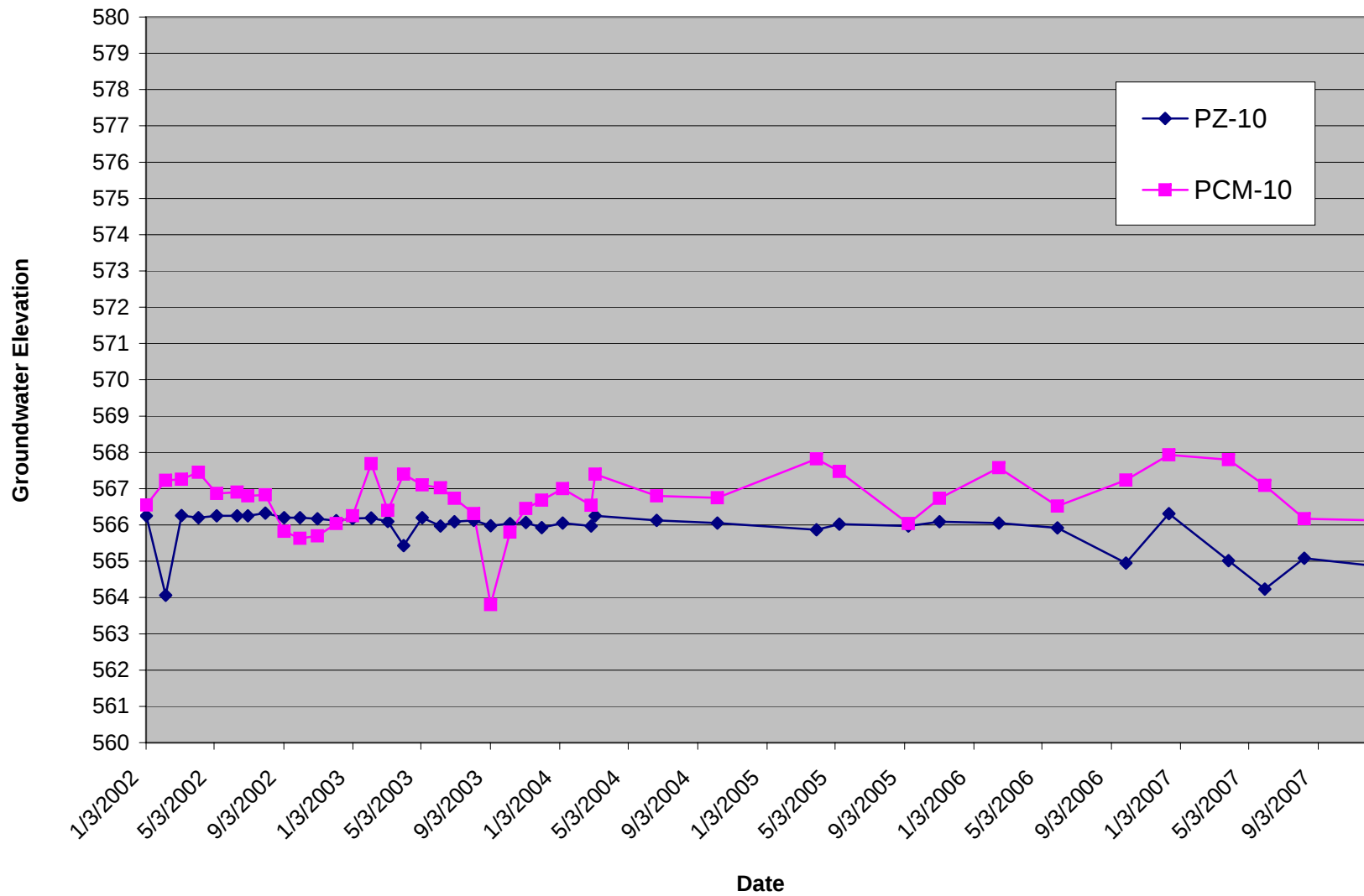
Groundwater Levels Well Pair 8



Groundwater Levels Well Pair 9



Groundwater Levels - Well Pair 10



APPENDIX B

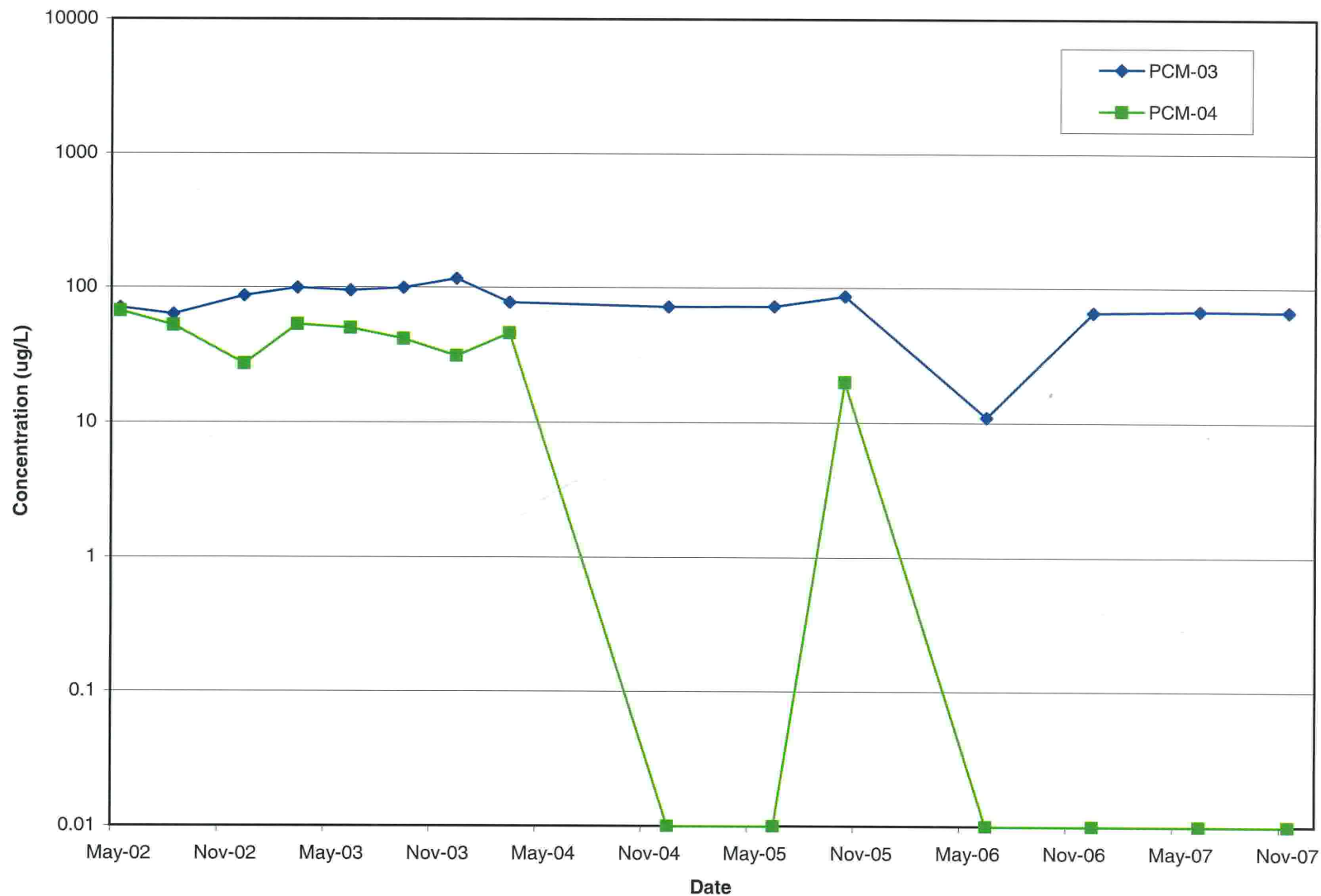


figure 1
CONCENTRATION OF 1,2-DICHLOROBENZENE vs. TIME
102ND STREET LANDFILL



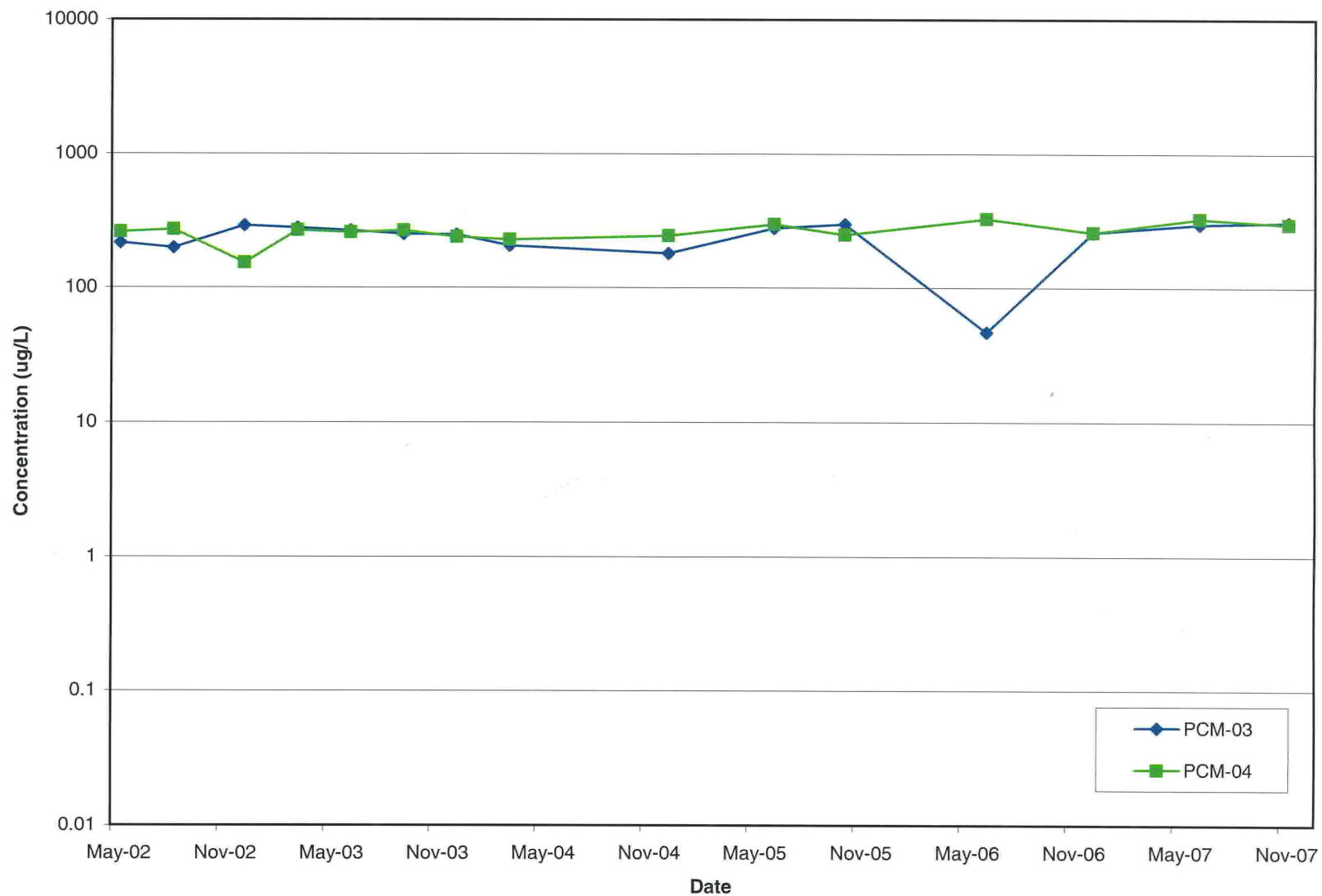


figure 2
CONCENTRATION OF 1,4-DICHLOROBENZENE vs. TIME
102ND STREET LANDFILL



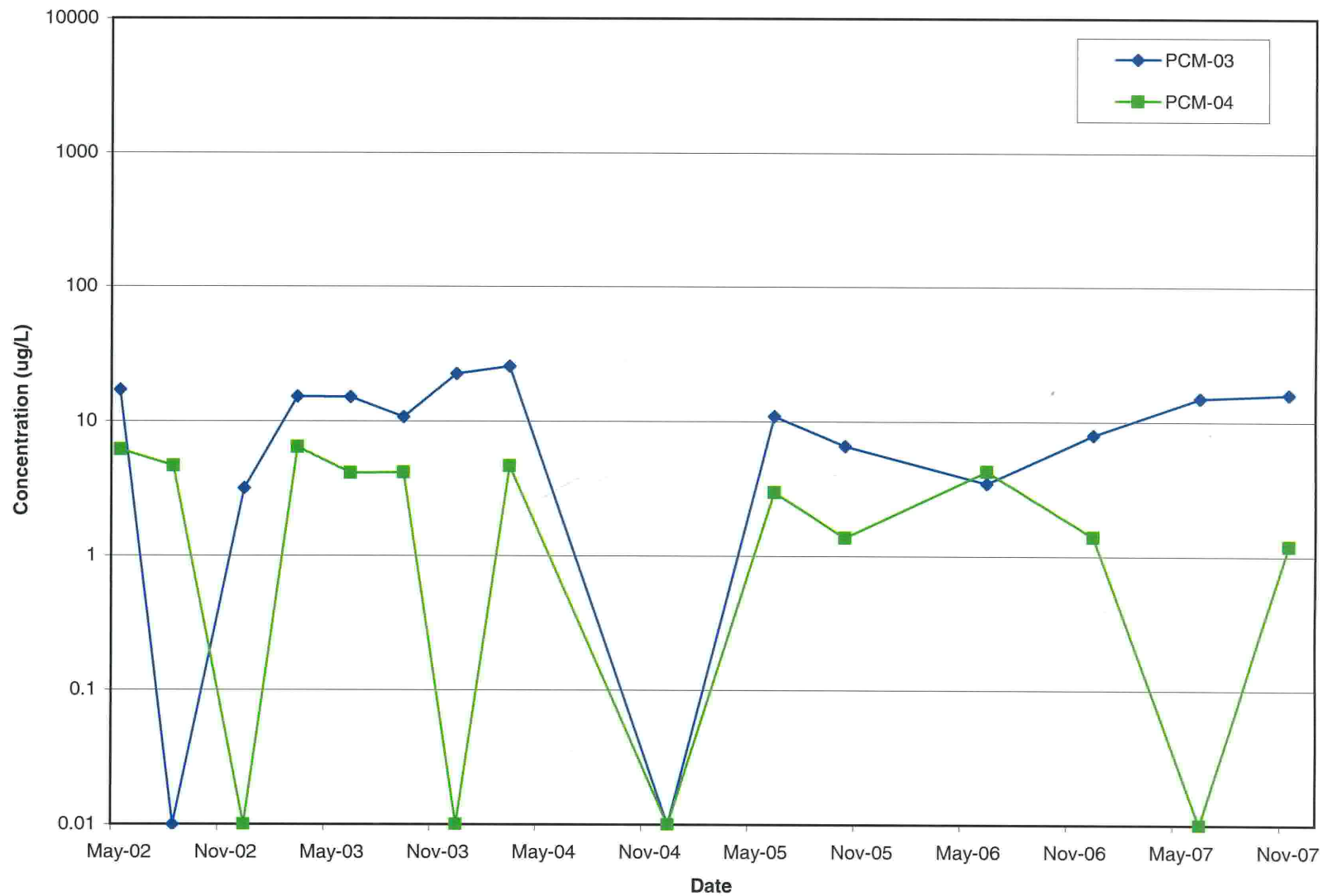


figure 3
CONCENTRATION OF 2,4-DICHLOROPHENOL vs. TIME
102ND STREET LANDFILL



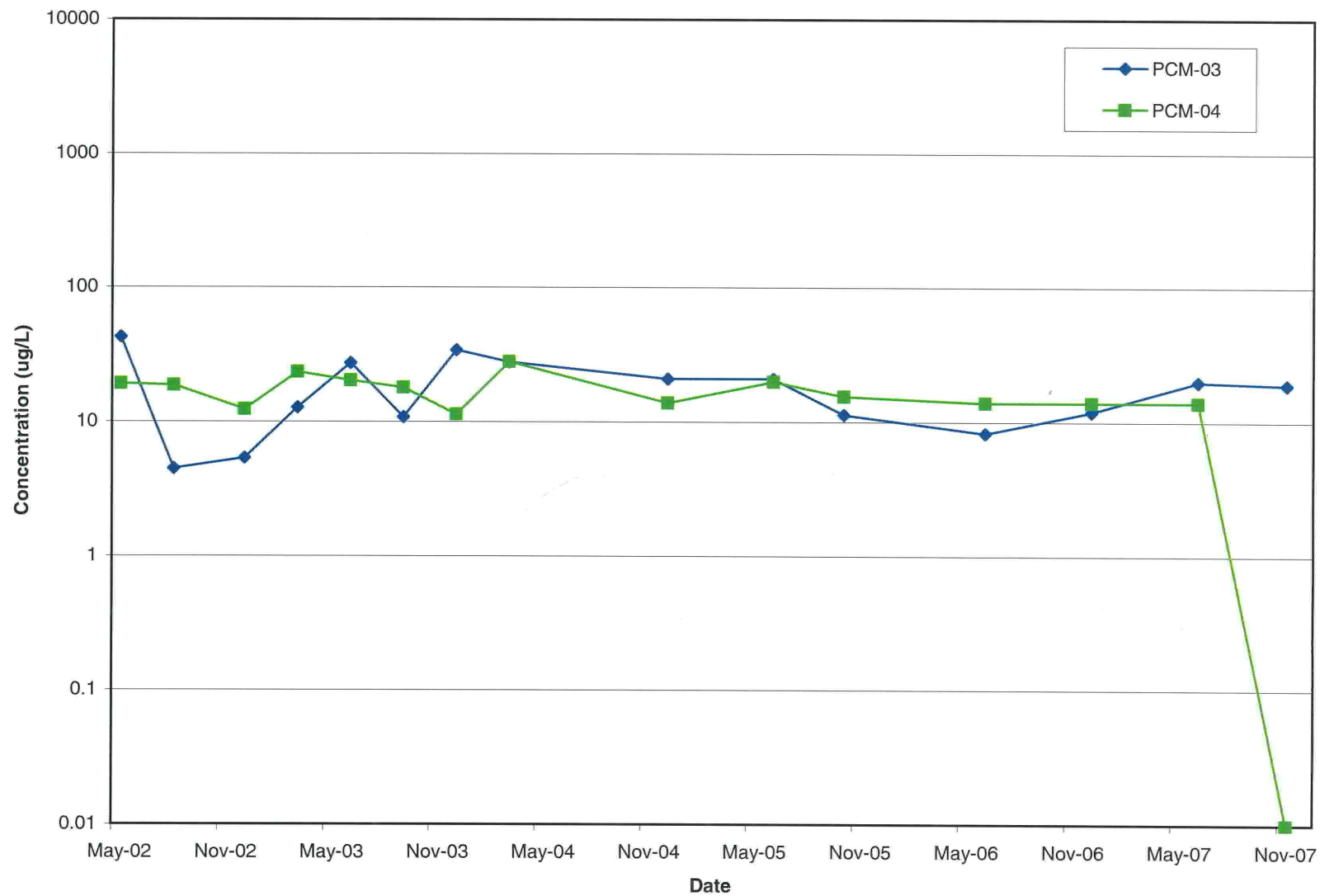


figure 4
CONCENTRATION OF 2-CHLOROPHENOL vs. TIME
102ND STREET LANDFILL



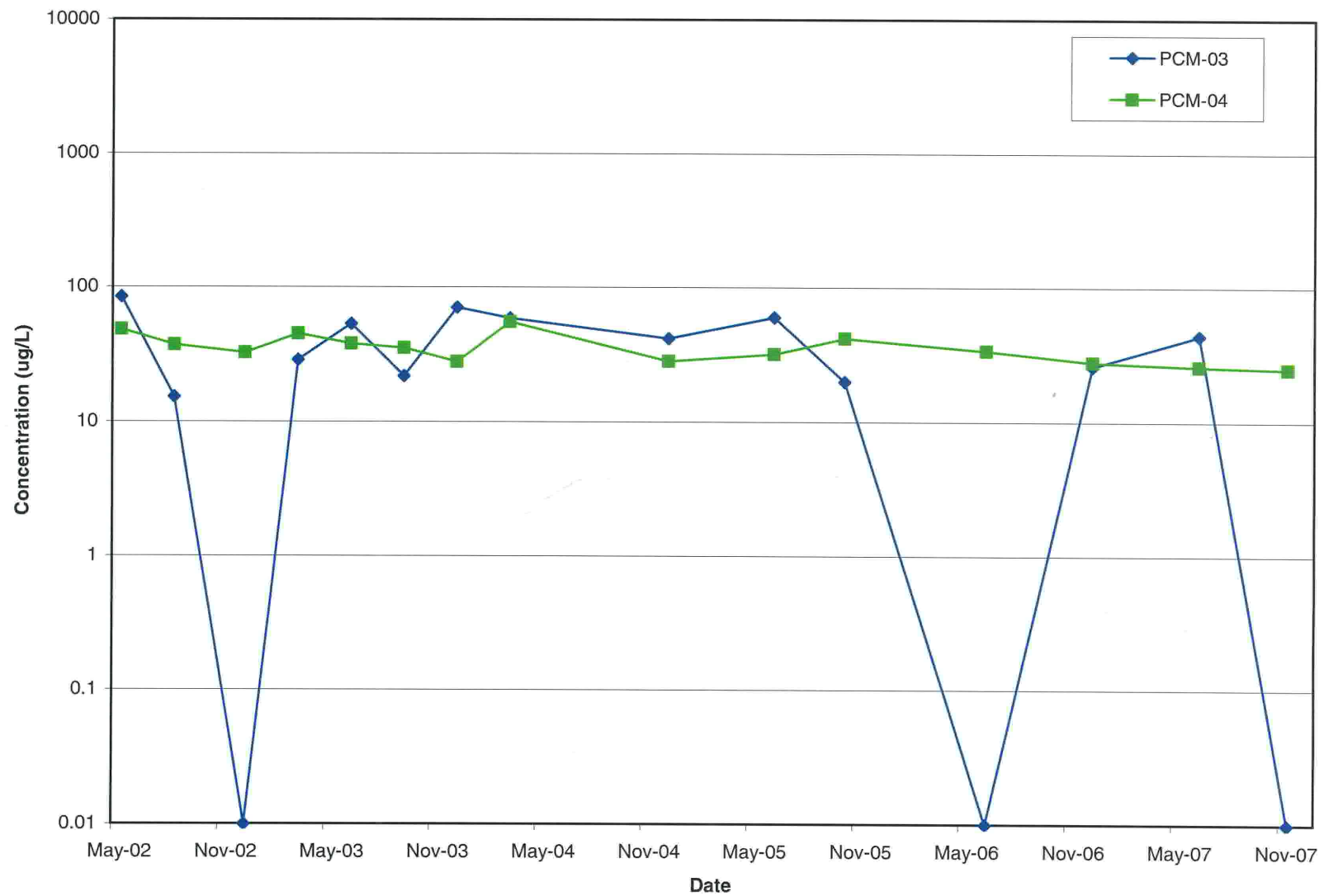


figure 5
CONCENTRATION OF 4-CHLOROPHENOL vs. TIME
102ND STREET LANDFILL



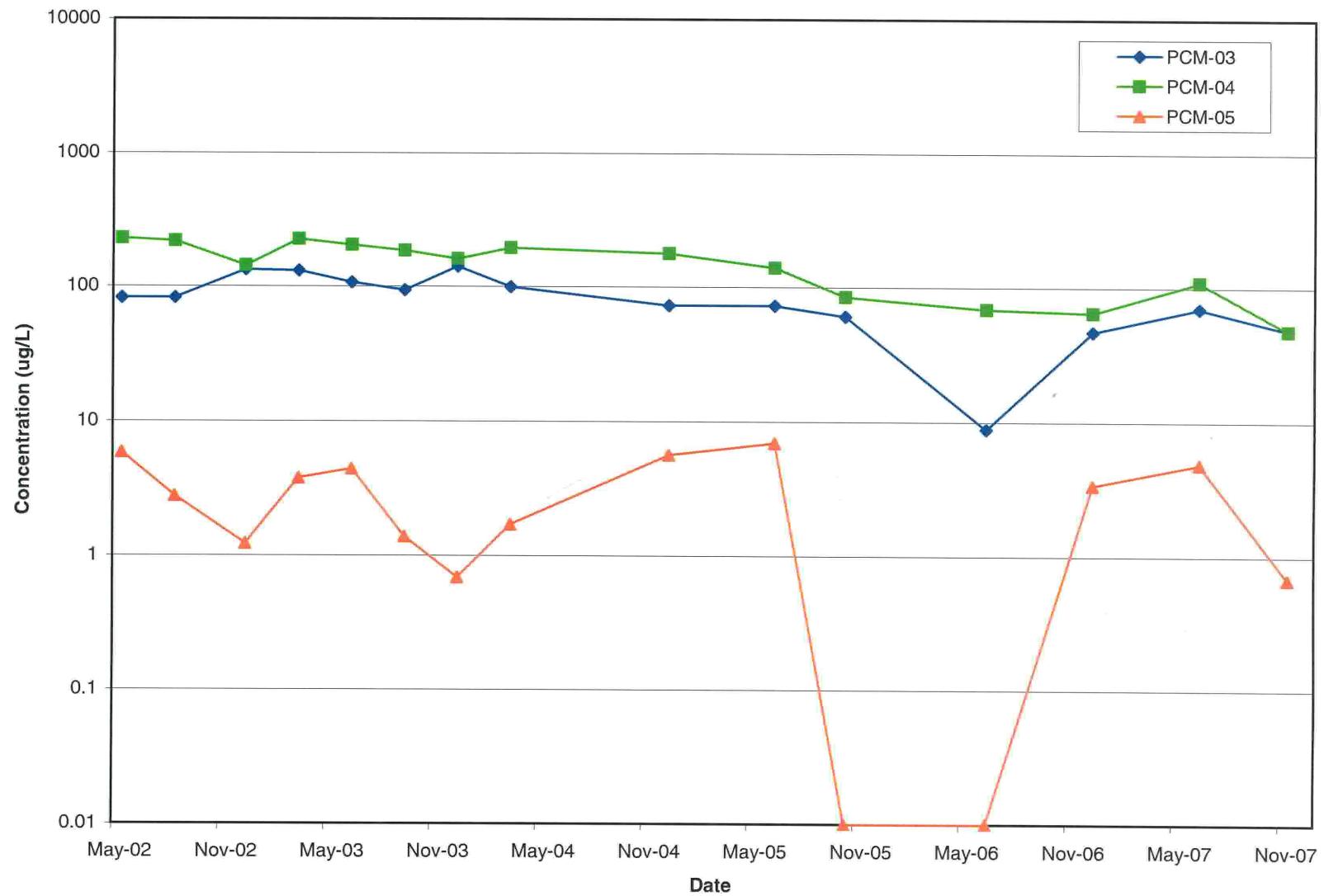


figure 6
CONCENTRATION OF BENZENE vs. TIME
102ND STREET LANDFILL



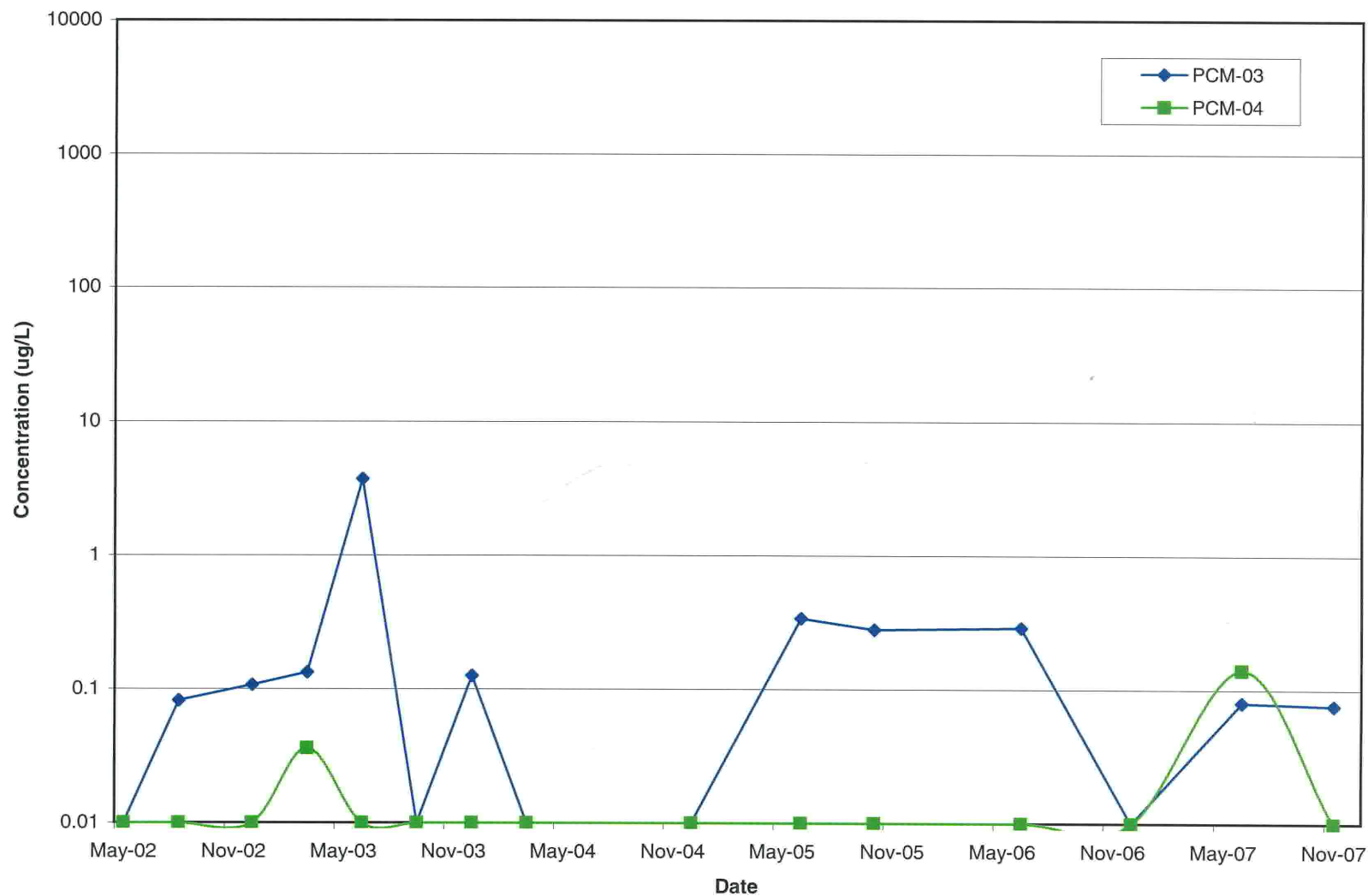


figure 7
CONCENTRATION OF BETA-BHC vs. TIME
102ND STREET LANDFILL

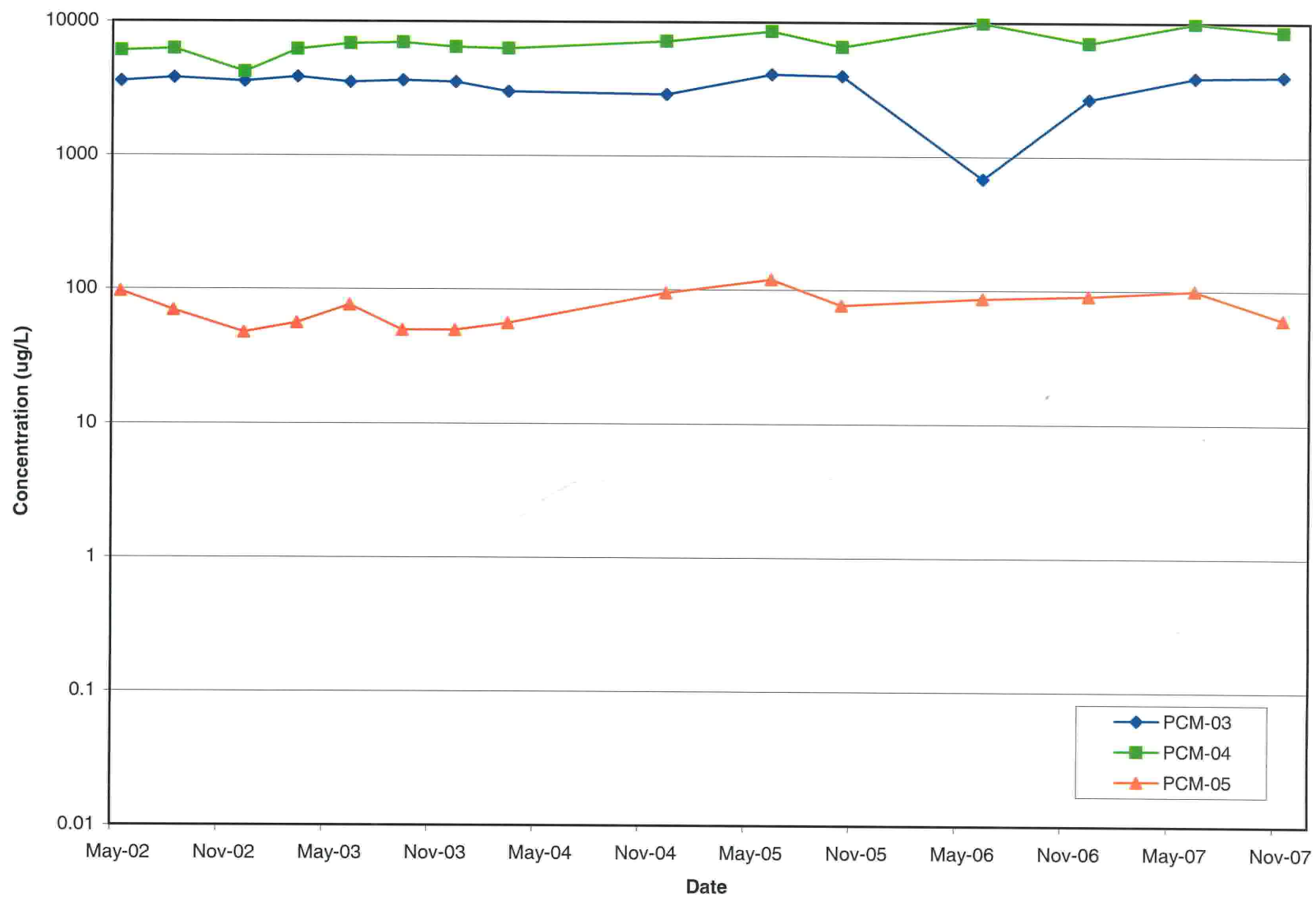


figure 8
CONCENTRATION OF CHLOROBENZENE vs. TIME
102ND STREET LANDFILL



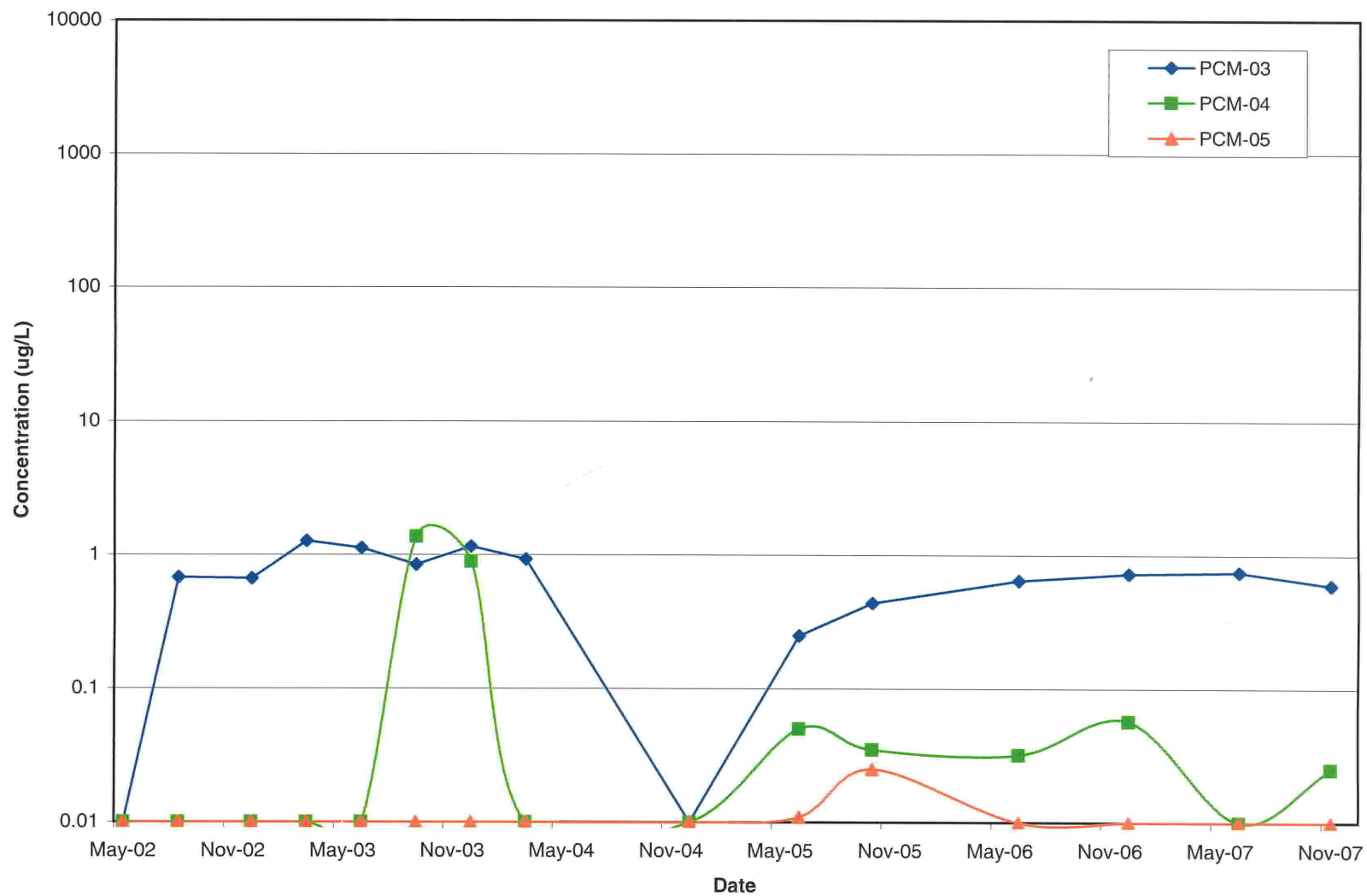


figure 9
CONCENTRATION OF DELTA-BHC vs. TIME
102ND STREET LANDFILL



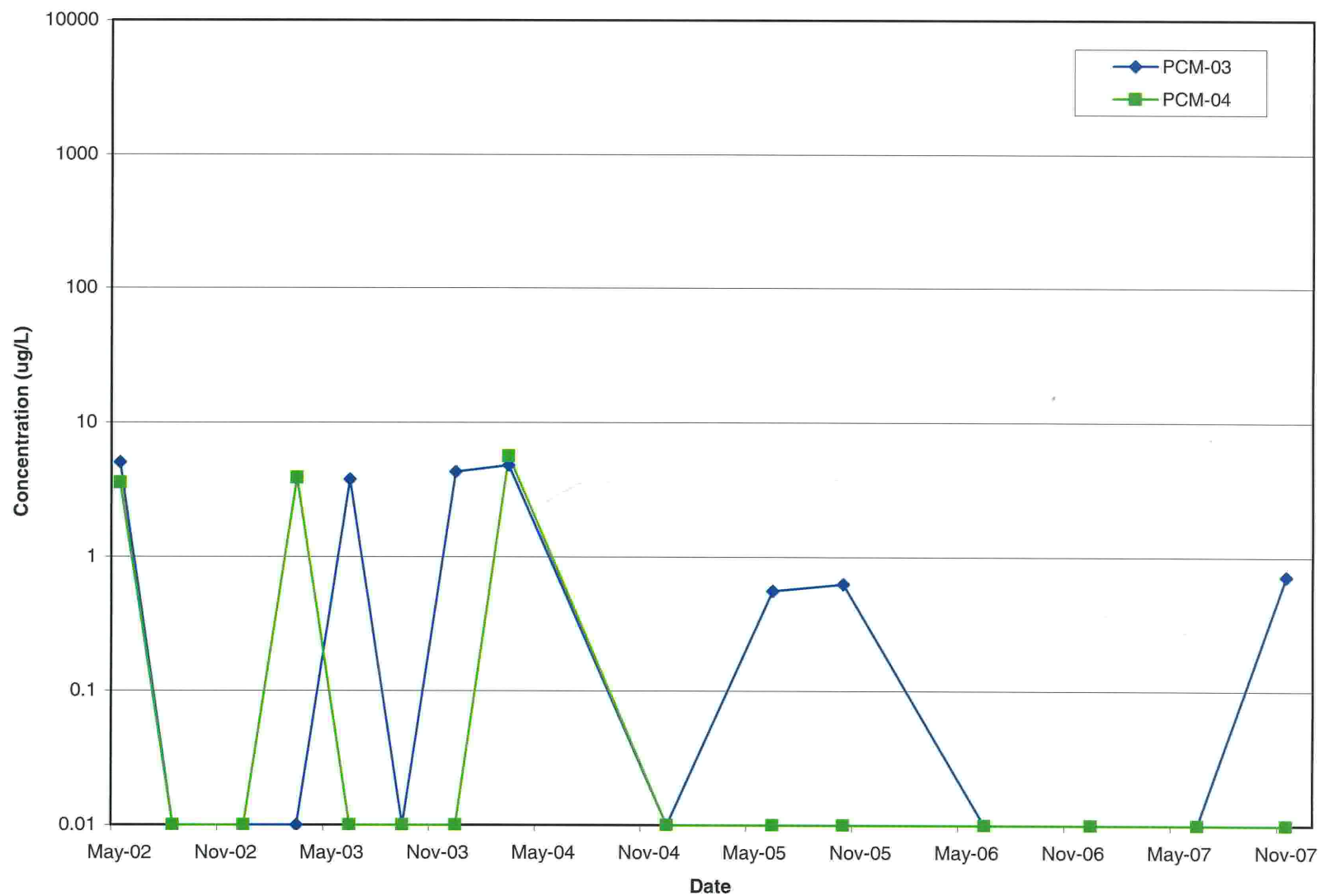


figure 10
CONCENTRATION OF PHENOL vs. TIME
102ND STREET LANDFILL

