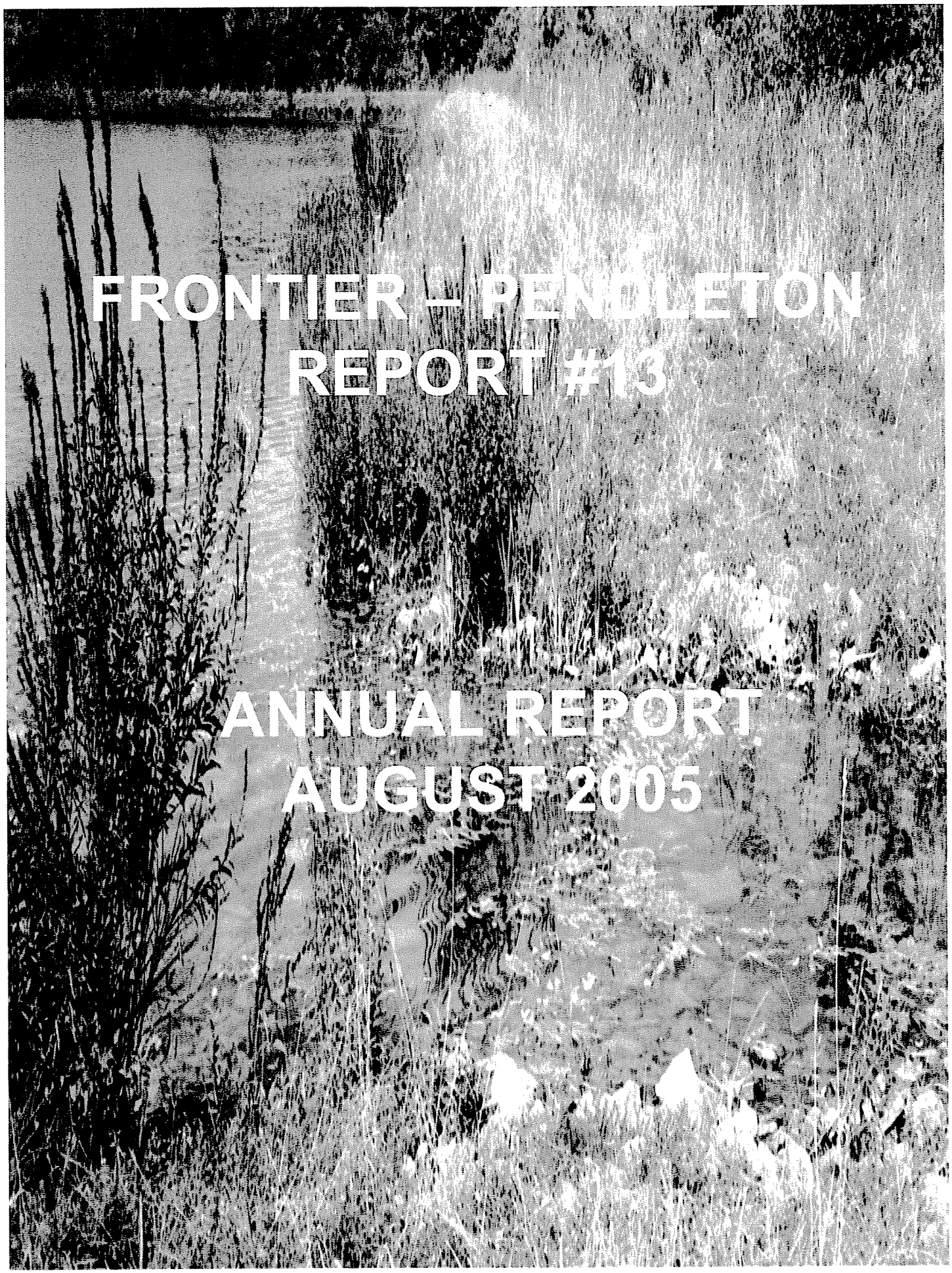

FRONTIER – PENDLETON
REPORT #13

ANNUAL REPORT
AUGUST 2005

Olin

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(423) 336-4000 FAX: (423) 336-4166

August 5, 2005 **VIA AIRBORNE EXPRESS**

Mr. Jeffrey Konsella
Division of Environmental Remediation
New York State Department of Environmental Conversation
270 Michigan Avenue
Buffalo, New York 14203-2999

Subject: Frontier Chemical - Pendleton Site, Pendleton, New York
Order on Consent (#B9-0270-89-05)
Annual Report #13
Post Closure Operation, Maintenance, and Monitoring Activities

Dear Mr. Konsella:

In accordance with the approved Pendleton O & M Manual, enclosed are three copies of the Annual Report on the Post-Closure Operation, Maintenance, and Monitoring of the Closure Components for the Frontier Chemical-Pendleton Site by the Pendleton PRP Group.

If you have any questions regarding the above submittals, please contact me by telephone at 423-336-4587, by facsimile at 423-336-4166 or by e-mail at mjbellotti@olin.com.

Sincerely,

Pendleton PRP Group

Michael J. Bellotti

Michael J. Bellotti
Olin Corporation

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August, 2005

Attachments

1.0 INTRODUCTION

This report is the twelfth submittal for the operation, maintenance and monitoring at the Frontier Chemical – Pendleton Site located on Town Line Road in the Town of Pendleton, Niagara County, New York. This report is prepared based upon the New York State Department of Environmental Conservation-approved Operation and Maintenance Manual for this Site prepared by O'Brien & Gere Engineers on behalf of the Frontier Chemical – Pendleton Site PRP Group in 1996.

The Frontier Chemical – Pendleton Site PRP Group is responsible for the operation, maintenance and monitoring of the closure components of the Site. The approved O&M Plan identifies certain tasks that the Frontier Chemical – Pendleton PRP Group will perform related to the Site. The tasks that the Frontier Chemical – Pendleton PRP Group are required to perform are associated with the closure components of the Frontier Chemical – Pendleton Site.

2.0 CONSTRUCTED FEATURES

Constructed features for the Site include the capped area, ground water collection and conveyance system, surface water runoff facilities, constructed wetlands, perimeter and containment berms, and outlet weir, ground water monitoring system, access road, and site security. Each of the construction features is described briefly in the following paragraphs.

- The low-permeability capped system at the Site is a multi-component system designed to isolate the contaminants in the landfill. The 60-mil thick textured high-density polyethylene (HDPE) geomembrane is the component that covers and isolates the contaminants in the landfill. A 2-foot thick soil barrier layer was installed to protect the HPDE geomembrane cover. An 18-inch thick layer of soil barrier protection layer was placed over the HDPE geomembrane to protect the HDPE geomembrane from external forces. A 6-inch thick layer of topsoil was added to bring the soil barrier protection layer to a thickness of 2-feet. The soil barrier protection layer supports the vegetative cover c that minimizes erosion.

- The ground water collection system installed along the southern perimeter of the capped area and eastern edge of Quarry Lake is approximately 1,594 feet in length. The southern perimeter collection system is a perforated 6-inch diameter HDPE pipe approximately 420 feet in length sloped to discharge to manhole MH-1 of the eastern edge of Quarry Lake collection system. The collection system along the eastern edge of Quarry Lake is a perforated 6-inch pipe approximately 1,174 feet in length. The perforated pipe transitions to 6-inch diameter solid HDPE pipe prior to the manhole MH-3 pumping station wet well. A pinch valve is located at the entrance to the wet well. When the pinch valve is in the closed position, ground water will build up in

the ground water collection trench. When the pinch valve is in the normal open position, ground water will flow into the wet well.

- The surface water runoff control facilities at the Site are designed to protect the toe of the capped area from run on and to convey runoff away from the capped area during a 25-year, 24-hour storm or a seasonal thaw event. Runoff from the northern portion of the cap drains directly to the existing wetland areas as sheet flow runoff. Sheet flow runoff from the western half of the cap drains across the western access roads discharging directly into the lake. Sheet flow runoff from the eastern portion of the cap drains across the eastern access road into a storm water ditch.

- Wetlands are constructed in Quarry Lake between the lake and the reconstructed perimeter berm, north of the capped area, and south of the capped area. In addition to direct precipitation, the constructed and existing wetlands receive surface water runoff from the capped area, Quarry Lake, and other areas of the Site.

- The perimeter berm constructed at a top elevation of approximately 580.5 feet and with a slope of 1V:3H provides containment for 25-year, 24-hour event while maintaining two feet of freeboard. The containment berm is constructed along the lakeside of the ground water collection trench at a 1V:3H and supports for the ground water collection system. The outlet weir with a crest elevation ranging from 577.2 feet to 577.5 feet is designed to discharge water from Quarry Lake into the surrounding wetlands when the water surface elevation rises above a crest elevation of 577.2 feet.

- The ground water monitoring system includes ten ground water monitoring wells (URS-14I, URS-14D, URS-9I, URS-9D, 85-5R, URS-5D, 85-7R, URS-7D, 88-12C, and 88-12D), eight piezometers (P-1 through P-8), and one standpipe (SP-1). The ground water monitoring wells are located outside the limits of the capped area and serve to monitor the elevation of the ground water table as well as to collect samples of ground water to be analyzed. Five piezometers are located within the capped area, and three piezometers are located outside the capped area. The standpipe is located within the ground water collection trench. The surface water elevation in Quarry Lake is measured along with water elevations from the eight piezometers, and the standpipe in the collection trench to monitor the establishment of an inward hydraulic gradient at the perimeter of the capped area.

- The access road from Townline Road allows access to the perimeter of the capped area and ground water collection, conveyance and pre-treatment system for inspection and maintenance purposes.

- Site access is controlled by a vehicle access gate at Town Line Road, a vehicle access gate located adjacent to the dry vault, and a perimeter fence around the capped area and pump station. The gates and fence are six-foot

high chain link type with warning signs to discourage trespassers. To maintain the security of the capped area and pump station, the access gates are locked while the Site is unattended.

Operation, maintenance, and monitoring activities to be performed by the Group include:

- Routine inspection and maintenance of constructed features, including the capped area, ground water collection and conveyance system, surface water runoff facilities, constructed wetlands, access road, perimeter and containment berms, and outlet weir.

- Operation and maintenance of the ground water pre-treatment system.

- Performance of a ground water monitoring program to monitor ground water conditions at the site and to verify the inward hydraulic gradient within the capped area.

- Evaluation of operation, maintenance, and monitoring activities and identification of proposed changes to the O&M Manual or site procedures and policies which would provide a safer and/or more cost-effective operation

- Recordkeeping.

3.0 INSPECTION AND MAINTAINENCE OF CAPPED AREA

Routine inspection of the capped area and immediately adjacent areas is performed semi-annually. NYSDEC is informed of the inspections at least one week in advance of the inspections to enable their participation in the inspections. The inspector for the Pendleton PRP Group, Sevenson Environmental Services, Inc. observes the condition of the vegetative cover for areas of settlement, erosion, slope instability, or any other damage to the capped area. If such features are noted, appropriate engineered solutions are implemented. Mowing is performed semi-annually and as required to prevent the establishment of woody plants (trees) that may penetrate the flexible membrane cover. Routine cover inspection will also note any problems with thinning of vegetation. Areas that appear to be thinning out over time will require overseeding to keep the vegetative cover uniform.

Inspections of the capped area and other constructed features using the Semi-Annual Inspection Checklist were conducted two times, 9/13/04 and 4/12/05 during this reporting period. Problem areas noted during these inspections are listed in the following table. Copies of the inspection forms from the two inspections are included in ***Attachment A***. Corrected issues from prior report are summarized in the table below.

D AREA AND IMMEDIATELY ADJACENT AREA INSPECTION SUMMARY		
DATE	**PROBLEM**	**STATUS**
4/12/05	Sign for P7 broken, P7 needs new standpipe	repairs scheduled for July-05
4/12/05	Gopher dens noted on cap	Extermination gas applied
9/13/04	Standing water onsite	Temporary due to heavy rainfall
9/13/04	Front gate crooked	Fence repaired

4.0 GROUND WATER COLLECTION, CONVEYANCE AND PRE-TREATMENT SYSTEM

Ground water within the capped area flows toward the ground water collection trench. The collected ground water flows by gravity through the collection trench piping to Manhole #3. The level of the collected ground water in Manhole #3 and in the collection trench piping is monitored by instrumentation that activates one of the pre-treatment pumps and initiates the pre-treatment process. The pre-treatment system is installed in the dry vault adjacent to Manhole #3. All ground water from the collection trench piping is filtered and carbon treated prior to discharge to the NCSD #1's interceptor system at Manhole #16.

The ground water collection system is inspected semi-annually for the buildup of hard or soft scale-like deposits. The inspection is performed concurrently with inspection of the capped area. The inspection measures the water levels in the manholes (MH-1, MH-2, and MH-3) and monitoring the flow rate of water being pumped to the pre-treatment system from the wet well (MH-3) to observe if there is any buildup in the ground water collection trench piping. The pinch valve in the wet well is closed and opened during the inspection. The dry vault and wet well components are visually inspected monthly for leakage or corrosion of valves, pipes and appurtenances, and for proper operation. A leak is repaired when found. If a component of the ground water collection, conveyance, or pre-treatment system is found to be damaged or malfunctioning, it is repaired or replaced.

The operation of the pre-treatment system is a process controlled by the quantity of ground water flowing from the landfill into the collection system piping. The ground water collected from inside the capped area is stored in the wet well and collection system piping when the system is not pumping. Two alternating progressive cavity pumps, each with a pumping capacity of 10 gallons per minute, are operated singularly by the ground water level in the wet well, Manhole #3. Water from the pre-treatment system is discharge from the dry vault via a dual contained force main to the Niagara County Sewer District #1 interceptor system at manhole MH-16. The flow rate and volume of ground water pumped from the wet well is measured using a magnetic-type flowmeter. The flowmeter is located downstream of the progressive cavity pumps but prior to the filter and carbon treatment units. The flowmeter is the measurement device used in reporting discharge flow from the Site to MH-16. A sump is installed within the dry vault to recycle spills and leaks inside the dry vault back into the wet well. A sump pump with a float switch pumps spills and leaks from the floor of the dry vault back into the wet well for treatment.

The pre-treatment system was designed for continuous operation capable of treating approximately 15,000 gallons per day at a rate of 10 gallons per minute. The water level sensor in the wet well can be set at various levels but is currently set to activate the pumping system when the wet well sump begins to back up water in the ground water collection piping.

PRE-TREATMENT PROCESSING, AVERAGE FLOW RATE		
PROCESS FLOW RATES	**DESIGN**	**ACTUAL**
Gallons Per Day	15,000	495
Gallons Per Minute	10	10

Under current conditions, the pumping system is always on-line but under normal ground water flow rates to the collection trench piping, operates six to eight times per 24-hour period. Each time a pump is activated by the level sensor, approximately 60 gallons of water is pumped into the pre-treatment system. Based upon the volume of the pre-treatment system, it takes at least a day for the ground water to pass through the pre-treatment system and be discharged to Manhole #16. A summary of the pre-treatment flow volume by year is shown in the table below.

PRE-TREATMENT FLOW SUMMARY BY OPERATING YEAR		
DATE	**GALLONS PER YEAR**	**GALLONS PER DAY**
1997	68,557	187
1998	64,935	178
1999	61,187	168
2000	69,998	191
2001	105,524	289
2002	142,068	389
2003	49,616	439
2004	138,285	378
2005 ytd	59,517	495

Calendar-year flows by day for 1997 through 2004 as well as 2005 Y-T-D are presented in ***Attachment B***.

The permit to discharge from the pre-treatment system to Manhole #16 of the Niagara County Sewer District #1 is currently granted by District Permit # 02-11. The permit effective date was August 28, 2002 and it was renewed effective August 28, 2004. A copy of Industrial Waste Permit #2-11 is shown in ***Attachment C***. Semi-annual reporting to Niagara County Sewer District #1 includes the volume and chemical characteristics of the water being discharge from the Site. Copies of the semi-annual reports to the Niagara County Sewer District #1 for this reporting period, Reports dated 11/15/04 and 6/13/05, are included in ***Attachment D***.

The performance of the pre-treatment system has met the discharge criteria of the permit since startup in 1997.

Maintenance for the pre-treatment system is recorded in the Pre-Treatment System Operator Log. Information on the Pre-treatment System Operator Log includes the purpose of the visit, local time and conditions, status of the process, details of the

visit, planned action, and recommendations to prevent future problems. A log sheet is filled out during each visit to record site conditions and actions taken by the technician. Site visits are normally monthly unless alarm conditions, call by neighbors, data request, etc., require additional visits. The maintenance records for May 2004 through April 2005 are summarized in the table below.

Regular inspections are currently conducted monthly. These inspections are a part of the pre-treatment systems operating log. The Pre-Treatment Operator's Logs for this reporting period are included in ***Attachment E.*** Corrections to issues identified in the prior report are listed below. The main maintenance issues have been the control of burrowing animals and controlling the seep into the vault, per the improvements made during 2002-03 reporting year.

MAINTANANCE SUMMARY		
DATE	**PROBLEM**	**STATUS**
05-17-02	Power Failure	Restarted
05-29-03	Leak On GAC Unit #1	Both GAC units Replaced
06-28-03	Leak On GAC Unit #1	Both GAC units Replaced
07-01-02	Autodialer Out	Fuse Replaced
07-03-02	Leak On GAC Unit #1	Both GAC units Replaced
08-02-02	Exhaust Fan Stopped	Replaced
10-02-02	Power Failure – Flow Meter	Repaired
01-13-03	Autodialer – Locked	Reprogrammed And Reset Alarms
03-21-03	Differential Pressure High	Replaced Pressure Gage
03-24-03	System Down	Replaced Equipment
03-25-03	Backpressure On GAC Unit #1	Both GAC units Replaced
03-27-03	Power Failure	No Problems Found; Restart
03-28-03	Flowmeter-Autodialer Agreement	Installed Electronic Filter
04-08-03	GAC Unit#1 Differential Pressure	Both GAC units Replaced
04-11-03	Differential Pressure	Pressure Drop In Discharge Line
04-14-03	Flow Meter	LCD Replaced
3-28-05	Rodent burrows evident in cap	Fumigation completed

Solids resulting from ground water collection system cleaning and equipment decontamination activities are stored, handled, and disposed of in accordance with the New York State Hazardous Waste Manifest System Regulations 6NYCRR Part 372 and any other applicable local, state, and federal regulations.

5.0 GROUND WATER MONITORING PROGRAM

This Ground Water Monitoring program includes piezometer and monitoring well inspections; hydraulic data for Quarry Lake, the capped area and collection trench, and the ground water wells; and ground water chemistry of the ground water zones. Piezometers (P-1 through P-8), standpipe (SP-1), and ground water monitoring wells (85-5R, URS-5D, 85-7R, URS-7D, URS-9I, URS-9D, 88-12C, 88-12D, URS-14I, and URS-14D) were identified as the monitoring network in the O&M Manual for the Site. The Ground Water Monitoring program's site activity scheduled is included as Attachment C – Table 1. This is the twelfth round of ground water and piezometer data collected since remedial action construction was completed. The first data collection for O&M was performed in July 24, 1997. The information from each round of data collection is used to evaluate whether or not the landfill cap and ground water collection trench are effectively controlling ground water migration.

The piezometer and monitoring well inspections were conducted on April 12 and April 14, 2005. The monitoring well integrity checklists are included in ***Attachment F***. During each monitoring event, ground water monitoring wells and piezometers are inspected for signs of damage. If damage is detected, or if routine sampling indicates a problem with one or more of the ground water monitoring wells or piezometers, it is noted in the well integrity checklist. Before any action is taken with the wells, the action will be discussed with the NYSDEC.

Problems noted with the well inspection are listed in the table below. It should be noted that at this time these issues are not affecting the integrity of the piezometers or monitoring wells.

GROUND WATER MONITORING SUMMARY	
WELL TYPE	**PROBLEM**
	No problems identified

A complete round of static ground water elevations was collected on April 13 and 14, 2005. The surface water elevation of Quarry Lake was measured on, by Glynn Geotechnical Engineering, Inc. The Field Observation Report is included in ***Attachment G.*** Groundwater and Quarry Lake surface water elevations are included on the CD in ***Attachment H.*** A well location map is also included in ***Attachment F***.

Between April 13 and 14, 2005, ground water samples were obtained from the ten ground water monitoring wells (85-5R, URS-5D, 85-7R, URS-7D, URS-9I, URS-9D, 88-12C, 88-12D, URS-14I, and URS-14D). Purge water generated during this sampling event was contained, passed through a 25-micron bag filter, and discharged into Manhole –3.

Following sample collection, the ground water samples were submitted to O'Brien & Gere Laboratories, Inc., for analysis.Ground water sampling logs are included in

Attachment I. The analytical data report is included on the CD and in tables in ***Attachment J.***

The ground water samples collected Sevenson Environmental Services were analyzed by O'Brien & Gere Laboratories, Inc. for VOCs using USEPA Method 8260B, inorganics using USEPA Methods 6010B/7470A/7841, and cyanide using EPA Method 9010B/9014.

6.0 EVALUATION OF OPERATION, MAINTENANCE, AND MONITORING ACTIVITIES

The capped area was mowed on a regular basis to prevent establishment of woody vegetation during this reporting period. The only problem associated with the capped area is the burrowing animals. This problem is being addressed by monitored during regular monthly inspections and by attempting to discourage burrowing animals from remaining in the holes once the hole is established. The capped area functions as designed and complies with the O&M Plan.

The ground water collection piping and the wet well continued to function without any unresolved problems. The leak problems with various pieces of the pre-treatment system continued to worsen and repairs to the equipment became more frequent. The increased daily flows from the pre-treatment system in 2001, 2002, and the first quarter of 2003 were assumed to be mainly due to leaks occurring downstream of the flowmeter and the leaked ground water being recycled back to the wet well. The leak problems with both the filter and carbon units were eliminated by installing new equipment in April 2003. The data collection and flow meter problems were eliminated by installing a new autodialer and two additional flow meters. The three flow meters that are now installed on the flow to the filter, the discharge to NCSD #1, and the recycle back to the wet well will allow for a water balance of flow in the pre-treatment system. Both the ground water collection and pre-treatment systems function as designed and comply with the O&M Plan.

The water level in the wetlands to the north of Quarry Lake is currently higher than the Quarry Lake outlet weir. The water level at the outlet weir for Quarry Lake is approximately 578 feet. The weir was constructed at an elevation of 577.2-577.5 feet to maintain a design water level in Quarry Lake and to provide a discharge point for rainfall runoff from the capped area. The perimeter berm for Quarry Lake is approximately 580.5. Currently, this elevated water level has not adversely impacted any components of the site. The surface control features function as designed and comply with the O&M Plan.

The relocated wetlands inside the Quarry Lake levee have design elevations of 574 feet for aquatic bed species (Zone A), 575 feet for non-persistent emergent species (Zone B), and 576 feet for persistent emergence species (Zone C). With Quarry

Lake approximately one foot above the design weir elevation, continued high water levels the wetlands plan for inside Quarry Lake may no longer be applicable.

The perimeter berm, constructed along the perimeter of Quarry Lake, provides a stable embankment to contain runoff associated with a 25-year, 24-hour storm event. The containment berm, constructed along the lakeside of the capped area, provides support for the ground water collection system. The outlet weir is designed to discharge water from the lake into the surrounding wetlands when the water surface elevation rises above a crest elevation of 577.2 feet. Water in Quarry Lake consistently above the design weir elevation will reduce holding capacity during the design storm event. The containment berm functions as designed and complies with the O&M Plan.

The water elevation data collected from the piezometers and ground water wells was used to determine whether an inward hydraulic gradient exists was made by comparing water level measurements within the capped area to those measured outside the capped area. This information was also used to determine the ground water flow potential inside the capped area, and to determine whether the ground water collection trench is effectively controlling ground water migration away from the capped area.

An inward hydraulic gradient will be established when water levels in piezometers outside of the capped area (P-1, P-5, P-8) and Quarry Lake are higher than water levels in piezometers within the capped area (P-2, P-3, P-4, P-6, P-7). There are four pairs of piezometer placed around the perimeter of the capped landfill to determine attainment of an inward gradient. The progress made by each of the four pairs of piezometers is discussed in the following paragraphs.

The Hydrographs showing groundwater elevation trends are shown in ***Attachment H***. Supporting data are included on the CD in ***Attachment I.*** Levels for piezometer pair, P-1 and P-2, located in the eastern portion of the capped area that borders the abandoned ROW, are presented in ***Attachment H***. The hydraulic head relationship indicates that an inward gradient has been established.

The ground water levels were checked for the piezometer pair, P-5 and P-6, located in the southern portion of the capped area. An inward gradient was obtained for this pair of piezometers in September 1998 and that an inward gradient has been maintained since that reporting period.

The ground water levels were checked for the piezometer pair, P-7 and P-8, located in the northern portion of the capped area. An inward gradient was obtained for this pair of piezometers in February 1999 and that an inward gradient has been maintained since that reporting period.

The ground water levels were checked for piezometer P-4 and Quarry Lake located in the western portion of the capped area. An inward gradient was

obtained in February 1998 and that an inward gradient has been maintained through this reporting period. The ground water level in both P-4 that is located directly across from SP-1 and P-3 located in the middle of the capped area are continuing to dewater the materials under the capped area.

The ground water elevation in the standpipe (SP-1) in the ground water collection trench is less than the surface water elevation of Quarry Lake, indicating that Quarry Lake is isolated from the capped area. The ground water elevation data indicates that ground water within the capped area is migrating to the west toward the ground water collection trench. Attachment H contains a well location map and tabulated groundwater elevations for the April, 2005 monitoring episode.

The access road was inspected at the same frequency as inspection of the final cover for rutting, potholes or settlement. No repairs were needed. The access road functions as designed and complies with the O&M Plan.

The integrity of the six-foot high chain link fence immediately surrounding the capped area and pump station was inspected at the same time as the capped area. The structural integrity of the fencing system was verified. Site security functions as designed and complies with the O&M Plan.

Recordkeeping requirements for the site including copies of records, reports, or other information relative to maintenance and monitoring activities at the Frontier Chemical-Pendleton Site were provided to the NYSDEC by the Pendleton PRP Group. The recordkeeping requirements comply with the O&M Plan.

7.0 Conclusions

Based on the data contained in this semi-annual report, the following conclusions are presented:

- The isolation of ground water within the capped area has been established and is being maintained by current operation and maintenance activities.

- The ground water elevation data indicates that ground water within the capped area is migrating to the west toward the ground water collection trench.

- The April 2005 ground water chemistry collected from the monitoring wells is similar to previous sampling events. Volatile organics were generally undetected.

- Review of the ground water elevations data indicate that inward hydraulic gradients were observed between piezometers within the capped area and piezometers outside of the capped area.. The absence of VOCs detected at concentrations above the New York State Class GA standards in the monitoring wells surrounding the capped area provide further evidence that contaminants are not migrating from beneath the cap.

Attachment A

Table 2-1 Frontier Chemical – Pendleton Site – Inspection Checklist

Date Performed:4/12/05	Weather: Sunny 45 F
Site Name:Frontier/ Pendlton Site (OLIN)	Inspector Name: Michael, Chris Jones
Site Location: Townline Road , Pendleton, NY	Inspector Signature:

Item	Task	Response		Comments
		Yes	No	
Low-Permeability Cover	**Visually inspect surface conditions.**			
	1. Erosion problem?		X	
	2. Lack or thinning of vegetation?		X	
	3. Mowing required?		X	
	4. Drainage problems?		X	
	5. Areas of settlement?		X	
	6. Areas of slope instability?		X	
	7. Areas of damage?		X	
Ground Water Collection and Conveyance System	**Visually inspect manholes and cleanouts.**			
	1. Buildup of solids/precipitates to the extent that the flow of groundwater is affected?		X	
	2. Measure water levels in manholes and Quarry Lake. a. MH-1? b. MH-2 c. MH-3? d. Quarry Lake?	X		MH-1, MH-2: Dry with a little silt on Bottom. MH-3 about 2' of water and 1-2" of silt built up on bottom. Lake level at 578.49".
	3. Closed and opened pinch valve?	X		
	4. Leakage, degradation or corrosion of valves, pipes or appurtenances?		X	
	5. Areas of damage?		X	

Item	Task	Response		Comments
		Yes	No	
Ground Water Pre-Treatment System (including Dry Vault and Wet Well)	**Perform inspection in accordance with Pre-Treatment System Operations Plan**	X		
Surface Water Runoff Facilities	**Visually inspect ditches and culverts.**			
	1. Accumulation of debris?		X	
	2. Excessive scouring?		X	
	3. Areas of damage?		X	
Perimeter Berm, Containment Berm, and Outlet Weir	**Visually inspect condition.**			
	1. Erosion problems?		X	
	2. Areas of settlement?		X	
	3. Areas of slope instability?		X	
	4. Areas of damage?		X	
Ground Water Monitoring Wells and Piezometers	**Visually inspect condition.**	X		
	1. Casings secured and locked?	X		
	2. Areas of damage?		X	
Access Road	**Visually inspect surface conditions of access roads.**			
	1. Rutting?		X	
	2. Potholes?		X	
	3. Settlement?		X	
	4. Areas of damage?		X	
Physical Site Security	**Visually inspect fences and gates.**			
	1. Signs intact?	X		
	2. Fence breached?		X	
	3. Access gates locked?	X		

Item	Task	Response		Comments
		Yes	No	
	4. Areas of damage?		X	
Notes	**Note any additional comments.**			
The sign for P-7 has been broken and needs a new stand pipe. Found 3 Gopher dens on the cap. Used "Rodent X gas " to exterminate them.				

Table 2-1 Frontier Chemical – Pendleton Site – Inspection Checklist

Date Performed:9/13/04	Weather: Sunny 75 F
Site Name: Pendleton Site, Olin/PRP's	Inspector Name: M.Walker
Site Location:Townline Rd. Pendleton, NY	Inspector Signature:

Item	Task	Response		Comments
		Yes	No	
Low-Permeability Cover	**Visually inspect surface conditions.**			
	1. Erosion problem?		X	
	2. Lack or thinning of vegetation?		X	
	3. Mowing required?		X	
	4. Drainage problems?		X	
	5. Areas of settlement?		X	
	6. Areas of slope instability?		X	
	7. Areas of damage?			
Ground Water Collection and Conveyance System	**Visually inspect manholes and cleanouts.**			
	1. Buildup of solids/precipitates to the extent that the flow of groundwater is affected?		X	
	2. Measure water levels in manholes and Quarry Lake. a. MH-1? b. MH-2 c. MH-3? d. Quarry Lake?	 0' 0' 1' 548.78		
	3. Closed and opened pinch valve?	X		
	4. Leakage, degradation or corrosion of valves, pipes or appurtenances?		X	
	5. Areas of damage?		X	

Item	Task	Response		Comments
		Yes	No	
Ground Water Pre-Treatment System (including Dry Vault and Wet Well)	**Perform inspection in accordance with Pre-Treatment System Operations Plan**	X		
Surface Water Runoff Facilities	**Visually inspect ditches and culverts.**			
	1. Accumulation of debris?		X	
	2. Excessive scouring?		X	
	3. Areas of damage?		X	
Perimeter Berm, Containment Berm, and Outlet Weir	**Visually inspect condition.**			
	1. Erosion problems?		X	
	2. Areas of settlement?		X	
	3. Areas of slope instability?		X	
	4. Areas of damage?		X	
Ground Water Monitoring Wells and Piezometers	**Visually inspect condition.**			
	1. Casings secured and locked?	X		
	2. Areas of damage?		X	
Access Road	**Visually inspect surface conditions of access roads.**			
	1. Rutting?		X	
	2. Potholes?		X	
	3. Settlement?		X	
	4. Areas of damage?		X	
Physical Site Security	**Visually inspect fences and gates.**			
	1. Signs intact?	X		
	2. Fence breached?		X	
	3. Access gates locked?	X		

Item	Task	Response		Comments
		Yes	No	
	4. Areas of damage?	X		Front gate has been twisted, needs minor repair.
Notes	**Note any additional comments.**			
Fox Fence will be out on 9/17/04 to straighten the front gate.				
Standing water noticed on site , probably due to heavy rainfall earlier in the week (5" fell on 9/9/04 in one day). Gopher boroughs are now noticeable, since the grass has been cut. I will investigate further on 9/17/04. There had been no varmint activity since earlier this summer.				

Attachment B

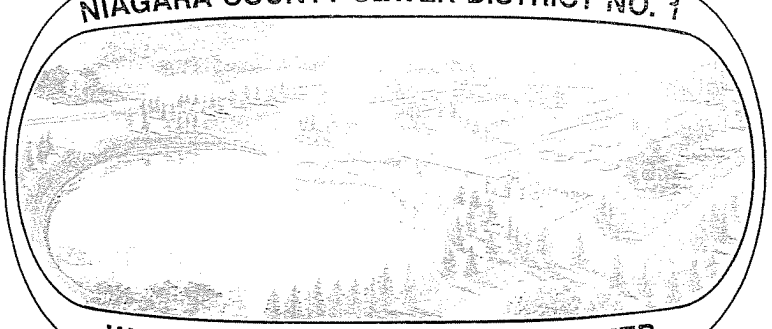
ATTACHMENT B - TABLE 1
FRONTIER CHEMICAL - PENDLETON SITE
DISCHARGE FLOW SUMMARY
1997 THROUGH April 2005

YEAR	TOTAL FLOW, GALLONS		AVERAGE, GPD
1997	68,557		187
1998	64,935		178
1999	61,187		168
2000	69,998		191
2001	105,524		289
2002	107,268		294
2003	142,068		389
2004	138,285		378
2005	59,517	YTD	496
Total Discharge	817,338		

Attachment C

7346 Liberty Drive
Niagara Falls, NY 14304-3762
Phone 716-693-0001
FAX 716-693-8759

NIAGARA COUNTY SEWER DISTRICT NO. 1



WATER POLLUTION CONTROL CENTER

August 17, 2004

Pendleton Site PRP Group
c/o Olin Corporation
P.O. Box 248
Charleston, TN 37310-0248

ATTN: Mr. Michael J. Bellotti

Re: PRP Group Industrial Waste Permit
Pendleton (Frontier Chemical) Site

Gentlemen:

Enclosed is a renewed permit for the discharge of contaminated groundwater.

Please review the permit carefully. If there are any questions, please feel free to contact me.

Very truly yours,

NIAGARA COUNTY SEWER DISTRICT #1

Frank A. Nerone, P.E.
Chief Operator

FAN/ca
Enclosure

C\Pretreat\PerPendletonSiteRPRGrpLtr04

Niagara County Sewer District #1

Industrial Waste Permit

Industrial User: Pendleton Site PRP Group
(Permitee)

Division Name (if Applicable): c/o Olin Corporation

Mailing Address: P.O. Box 248
Street or P.O. Box

Charleston, TN 37310-0248
City, State and Zip Code

Site Address: Pendleton Site Townline Road
Street Address

Pendleton, New York
City, State

The above Industrial User is authorized to discharge contaminated groundwater to the Niagara County Sewer District #1 sewer system in compliance with the District's Sewer Use Law, Local Law No. 1, Resolution No. 7-94, any applicable provisions of Federal or State law or regulation, and in accordance with discharge points(s), effluent limitations, monitoring requirements, and other conditions set forth herein.

Effective Date: August 28, 2004

Expiration Date: August 28, 2006

(Application for renewal shall be submitted 90 days prior to expiration)

District Permit No. 04-11

Date: 8/18/04 Signed: [signature]

Schedule A – Listing of Discharged Wastestreams

Industry Name: Pendleton (Frontier Chemical) Site
Groundwater Remediation

The following wastestreams are discharged to sanitary sewer system tributary of Niagara County Sewer District #1.

Waste-Streams	Nature of Waste	Volume gallons per day	Discharge Point
WS 001	Groundwater Remediation	250	D 002

PART I – WASTEWATER DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

Industry Name: Pendleton (Frontier Chemical) Site
Sample Point: Sample Point A: Groundwater Pump Station Discharge
Description: Contaminated Groundwater

Parameter	Discharge Limitations[1]	Monitoring Requirements: Sampling Frequency	Monitoring Requirements: Sample Type
Flow		Continuous	
a.) Groundwater Remediation	2500 GPD, Daily Maximum		
Pollutants	**Discharge Limit**		
624	0.100 mg/L (Sum of all EPA 624 cmpds.)	Semi-Annual	24C[2]
Antimony	0.1 mg/L	Semi-Annual	24C
Boron	4.0 mg/L	Semi-Annual	24C
Chromium	5.33 mg/L	Semi-Annual	24C
Cyanide (T)	2.0 mg/L	Semi-Annual	4 Grabs[4]
Total Phenolics (4AAP)	Surveillance Only	Semi-Annual	
Total Suspended Solids	300 mg/L	Semi-Annual	24C

These Limitations shall be effective immediately.

Notes:

(1) All other limitations as set forth in the District's Sewer Use Law shall also apply.

(2) 24-hour composite samples for volatile (624) organics to consist of a minimum of four (4) grabs within a 24-hour period. (See Sampling Measurement & Analytical Guidelines, Section 9, Paragraph 2.)

(3) Cyanide will be analyzed from 4 grabs collected over the 24 hour period using the appropriate containers/preservatives and lab composited.

PART II – SPECIAL CONDITIONS/COMPLIANCE SCHEDULE

1. Compliance Schedules: If additional pretreatment and/or operation and maintenance are required to meet discharge limitation and/or Pretreatment Regulations, the User will immediately advise District of the shortest schedule by which the User provide such additional pretreatment or reduction in flow discharged. The completion date in this schedule shall not be later than the compliance date established for any applicable Pretreatment Regulations.

PART III – REPORTING REQUIREMENTS

1. The Industrial User shall notify the District immediately upon any accidental or slug discharge to the sanitary sewer system. Formal written notification discussing circumstances of the event and remedies to prevent recurrence shall be submitted to the District within 3 days of occurrence.

2. The Industrial User shall notify the District and apply for a revised permit 30 days prior to the introduction of new wastewater or pollutants or any substantial change in the volume or characteristics of the wastewater being introduced into the POTW from the User's industrial processes.

3. Any upset experienced by the Industrial User of its treatment that places it in a temporary state of non-compliance with wastewater discharge limitations contained in this permit or other limitations specified in the District's Sewer Use Law shall be reported to the District within 24 hours of first awareness of the commencement of the upset. A detailed report shall be filed within 5 days.

4. Self-monitoring reports are due at the NCSD #1 office within 30 days of sampling. When reporting results, the following information shall be provided:

   a.) 1. The date, exact place, and time of sampling or measurements;
   2. The individual(s) who performed the sampling or measurements;
   3. The date(s) analyses were performed;
   4. The individual(s) who performed the analyses;
   5. The analytical techniques or methods used;
   6. The results of such analyses

   b.) A copy of the original lab report(s) as provided by the certified testing lab(s), including properly completed chain(s) of custody.

   c.) The original data from the lab report shall be transcribed into a table comparing the permit requirements to the obtained results. In cases where the permit contains requirements for daily maximum and maximum monthly average, columns for both of these shall be included in the table. When a single value applies to both daily max. and max. mo. avg. (because monitoring was only performed once during a month), separate columns shall still be included in the table, clearly indicating that the value is both the daily maximum and the monthly average.

   d.) All daily flows obtained since the previous reporting period, as well as the maximum and average daily flow for each month.

   e.) A certification statement as to whether the Industrial User is in compliance with the permit limitations. If the permit contains limitations for both daily max. and max. mo. avg., the statement must specify whether the User is in compliance with both limitations.

   f.) A certification statement that all normally operated (applicable) processes were operating (and discharging) during the monitoring period. Any processes not in operation shall be cited together with a listing of pollutants which might normally be present in said process discharge.

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

PART III – REPORTING REQUIREMENTS (cont'd)

6. All self-monitoring reports prepared shall be submitted to:

Frank A. Nerone, Chief Operator
Niagara County Sewer District #1 Water Pollution Control Center
7346 Liberty Drive
Niagara Falls, New York 14304

7. Signatory Requirements - All reports required by this permit shall be signed by an authorized representative of the Industrial User.

8. If sampling performed by the Industrial User indicates a violation, the Industrial User is required to repeat the sampling and analysis and submit the results to the District within thirty (30) days after becoming aware of the violation.

   Additionally, applicable quality control is mandatory in cases where the Industrial User is conducting additional self-monitoring as a result of non-compliance. (See Sampling Measurement and Analytical Guidelines, Item #19 "Quality Control.")

9. Toxic Organic Management Plan - For Industrial Users who are required to monitor for Total Toxic Organics (TTO), and who are implementing a District-Approved, Toxic Organic Management Plan in lieu of this monitoring, the following certification shall be included with each self-monitoring report:

   > "Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics, I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the control authority."

PART IV - STANDARD CONDITIONS

1. PROHIBITED DISCHARGES

The Industrial User shall comply with all the general prohibitive discharge standards.

2. INSPECTION/RIGHT-OF-ENTRY

The administrator and/or other duly authorized employees of the District, NYSDEC and/or USEPA, bearing proper credentials and identification, shall be permitted to enter all industrial properties without advance notice for the purpose of inspection, observation, measurement, sampling, monitoring, and testing in accordance with the provisions of its Sewer Use Law. The District shall also have the right to inspect and copy records pertaining to the Industry's self-monitoring procedures.

3. RECORDS RETENTION

The Industrial User shall retain and preserve for no less than (3) years any records, books, documents, memoranda, reports, correspondence, records of calibration and maintenance of instrumentation, recordings from continuous monitoring instrumentation, and any summaries thereof, relating to monitoring, sampling and chemical analysis made by or in behalf of the user in connection with its discharge. All records that pertain to matters that are the subject of special orders, or any other enforcement or litigation activities brought by the District, shall be retained and observed by the Industrial User until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

4. CONFIDENTIAL INFORMATION

Except for data determined to be confidential under Section 5.15 of the District's Sewer Use Law, all reports required by this permit shall be available for public inspection at the office of the Pretreatment Administrator, 7346 Liberty Drive, Niagara Falls, New York 14304.

PART IV – STANDARD CONDITIONS (cont'd.)

5. DILUTION

No Industrial User shall increase the use of potable or process water or, in any way, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

6. PROPER DISPOSAL OF PRETREATMENT SLUDGES AND SPENT CHEMICALS

The disposal of sludges and spent chemicals generated shall be done in a manner such as to prevent the pollutants from such material from entering the NCSD #1 sewer system. Said disposal shall also conform to all applicable State/Federal regulations.

7. REVOCATION OF PERMIT

The permit issued to the Industrial User by the District may be revoked when after inspection, monitoring or analysis, it is determined that the discharge of wastewater to the sanitary sewer is in violation of Federal, State, or local laws, ordinances, or regulations. Additionally, falsification or intentional misrepresentation of data or statements pertaining to the permit application or any other required reporting form, shall be cause for permit revocation, revocation of sewer discharges privileges, and/or imposition of criminal penalties.

8. LIMITATION ON PERMIT TRANSFER

Wastewater discharge permits are issued to a specific user for a specific operation and are not assignable to another user or transferrable to any other location without the prior written approval of the District. Sale of a facility by a User shall obligate the purchaser to seek prior written approval of the District for continued discharge to the sewerage system.

9. PERMIT AVAILABILITY

The original signed permit must be available upon request at all times for review at the Industrial User's address stated on the first page of this permit.

10. MODIFICATION OR REVISION OF THE PERMIT

a. The terms and conditions of this permit may be subject to modification by the District at any time as limitations or requirements, as identified in the District Sewer Use Law, are modified or other just cause exists.

b. This permit may also be modified to incorporate special conditions resulting from the issuance of a special order by NYSDEC or EPA.

c. The terms and conditions may be modified as a result of EPA promulgating a new federal pretreatment standard. If a pretreatment standard or prohibition (including Schedule of Compliance specified in such pretreatment standard or prohibition) is established under Section 807 (b) of the Act for a pollutant which is present, the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in permit, this permit shall be revised or modified in accordance with such pretreatment standard or prohibition.

d. The terms and conditions of this permit shall remain in effect until the permit is terminated or replaced by a subsequent permit.

11. DUTY TO REAPPLY

Within ninety (90) days of the expiration, the User shall reapply for reissuance of the permit. Application forms are available from the District upon request.

12. SEVERABILITY

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

PART IV – STANDARD CONDITIONS (cont'd).

13. ENFORCEMENT AND PENALTIES

Any violation of Section 2 or 3 of the Niagara County Sewer Use Law (adopted January 18, 1994) is declared a violation except as otherwise provided by law. Any violation of Section 4, 5 or 6 of the Niagara County Sewer Use Law is thereby a misdemeanor except as otherwise provided by law. A User who is found to have violated any provision of the Niagara County Sewer Use Law (or permits and orders issued thereunder) and/or applicable pretreatment standards and requirements, shall be subject to applicable civil and criminal penalties including but not limited to fines not to exceed five thousand dollars ($5,000) per violation per day for each day on which non-compliance shall occur or continue.

PART V - SPECIFIC CONDITIONS

NONE

NIAGARA COUNTY SEWER DISTRICT #1

SAMPLING MEASUREMENT AND ANALYTICAL GUIDELINES

1. Prior to implementing the self-monitoring sampling and analyses, the Industrial User must submit the following information to the District.

    a. The name(s) and address(es) of the laboratory or laboratories proposed to perform each of the chemical analyses.
    b. A description of the equipment and test methods proposed for the chemical analyses for each parameter.
    c. A list of the lower level of detectability expected for each parameter.
    d. A description of the overall recovery efficiency of the prepared sample, where applicable.
    e. A description of the quality control procedures used by the laboratory or laboratories to ensure reliable test results.
    f. A description of the sample collection point and sample collection procedures.
    g. A description of the compositing technique and equipment.
    h. A description of the sample preservation methods used for each parameter.

2. Before commencement of any sampling or flow monitoring, Niagara County Sewer District #1 Water Pollution Control Center shall be notified in writing at least seventy-two (72) hours in advance by the firm or designee. The District will give a twenty-four (24) hour verbal notification to the firm or District designee of whether split sampling will be initiated.

3. Before sampling is done, the sample points must be approved by the District.

4. All discharge lines from one (1) building, or all discharge lines from only one (1) single process must be sampled at the same time.

5. Sampling record must be used and submitted with monitoring reports. The sampling report shall contain the following minimum information:

    a. Date of each sample day.
    b. Exact location of sampling points – attach drawing for reference.
    c. If done manually, time of each grab sample with sampler's initials each time.
    d. Type of auto-sampler used. Size and type of tubing and sampling interval.
    e. Record all physical observation (sight, smell etc.) of the discharge at start-up, during inspections and changing samples.
    f. Note weather conditions.
    g. Signature of immediate sampling supervisor at the bottom of page.

6. If an auto-sampler is used, new tubing must be at least ¼ I.D. If visibly contaminated after sampling, it must be cleaned with detergent or methanol and deionized water each day. Proper refrigeration of the sample must be maintained during entire sampling period, when necessary. The intake hose velocity must be at least 2.0 f.p.s. with a maximum lift of twenty (20) feet.

7. All sampling shall be taken at the highest velocity, greatest turbulence and center of flow.

8. All sampling must be done on normal work days. If there is a process discharge after normal working hours, sampling must continue until no further discharge.

9. "COMPOSITE SAMPLE" "Composite" shall mean a combination of individual (or continuously taken) samples obtained at regular intervals over the entire discharge day. The volume of each sample shall be proportional to the discharge flow rate, when possible. For a continuous discharge, a minimum of forty-eight (48) individual grab samples (at half hour intervals shall be collected and combined to constitute a twenty-four (24) hour composite sample. For intermittent discharges of less than four hours duration, grab samples shall be taken at a minimum of fifteen (15) minute intervals.

Composite samples for purgeable halocarbons (Method 601/8010), purgeable aromatics (Method 602/8020), acrolein/acrylonitrile (Method 603), volatile organics (Method 624/8240), or cyanide shall be lab composited from grab samples taken at regular intervals over the entire discharge day utilizing the appropriate special sample containers, preservatives and collection techniques. The number of grabs collected is dependent on the length of the sampling period, and shall be determined the following:

For a discharge period of one hour or less, a single grab sample may be collected for analysis of the above parameters.

For a discharge period between one and 24 hours, a minimum of four (4) grabs will be taken at regular intervals and lab composited for analysis of the above parameters.

Proper sample collection containers and techniques must be used.

"SPLIT SAMPLE" - must be done on site with both parties present before preservatives are added.

"DAILY" - each operating day

"DAILY MAXIMUM" - shall mean the highest allowable discharge of a pollutant and/or flow measured during any twenty-four (24) hour sampling period. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the daily discharge is calculated as the average measurement of the pollutant over the day.

"GRAB" - shall mean an individual sample which is taken from a wastestream on a one (1) time basis with no regard to the flow in the wastestream and without consideration of time.

"MONTHLY" on day each month (the same day each month) and a normal operating day (i.e. the 2nd Tuesday of each month).

"MONTHLY AVERAGE" - discharge limitation means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month, divided by the number of daily discharges measured during that month.

"WEEKLY" - every seventh day (the same day each week) and a normal operating day.

10. Total water consumption shall be recorded for each day's composite using the water meters. Water consumption method must be explained in report.

11. All discharges shall be flow-monitored whenever possible. If flow monitoring cannot be done, flow determination should be a best practical engineering estimate without being economically burdensome to the firm involved. Results and procedure used to determine flow must be included with the analysis report.

12. **Sample Collection Techniques for Single Discharge Lines**

On single discharge lines (all regulated wastes discharge through one outlet), sample collection for the required parameters will be collected according to the following:

a. The following parameters should only be analyzed on manually taken grab samples:

pH
Temperature
Chlorine Residual
Dissolved Oxygen
Fecal Coliforms

Sample Collection Techniques for Single Discharge Lines (cont'd.)

b. The following parameters should only be analyzed on composite samples made from manually collected grab samples:

Oil and Grease
Purgeable Halocarbons (EPA 601)
Purgeable Aromatics (EPA 602)
Acrolein/Acrylonitrile (EPA 603)
Purgeables (EPA 624)
Cyanide

For a discharge period of one hour or less, a single grab sample may be collected for analysis of the above parameters.

For a discharge period between one and 24 hours, a minimum of four (4) grabs will be taken at regular intervals and lab composited for analysis of the above parameters.

Proper sample collection containers and techniques must be used

c. The following parameters should be analyzed on an automatically collected composite sample or, if an auto sampler is unavailable, a manually collected composite sample:

Metals
Phenol-4AAP
BOD
Total Suspended Solids
Total Phosphorus
TKN/Ammonia
Base/Neutral Acids (EPA 625)
EPA Methods 604-614

(For a continuous discharge, a minimum of forty-eight (48) individual grab samples (at half-hour intervals) shall be collected and combined to constitute a twenty-four (24) hour composite sample. For intermittent discharges of less than four (4) hours duration, grab samples shall be taken at a minimum of fifteen (15) minute intervals.)

13. **Sample Collection Techniques for Multiple Discharge Lines**

For multiple discharge lines (all regulated wastes discharge through more than one outlet), sample collection for the required parameters will be collected according to the following:

a. The following parameters must be analyzed separately from each discharge line's individual grab samples:

pH
Temperature
Chlorine Residual
Dissolved Oxygen
Fecal Coliforms

b. For the following parameters, a composite made from manually collected grab samples must be used. A separate composite must be made from each discharge line. The composites from the different discharge lines cannot be combined for analysis.

Oil and Grease
Purgeable Halocarbons (EPA 601)
Purgeable Aromatics (EPA 602)
Acrolein/Acrylonitrile (EPA 603)
Purgeables (EPA 624)
Cyanide

For a discharge period of one hour or less, a single grab sample may be collected for analysis of the above parameters.

SAMPLING MEASUREMENT AND ANALYTICAL GUIDELINES (cont'd.)

Sample Collection Techniques for Multiple Discharge Lines (cont'd.)

For a discharge period between one hour and 24 hours, a minimum of four (4) grabs will be taken at regular intervals and lab composted for analysis of the above parameters.

Proper sample collection containers and techniques must be used.

c. For the following parameters, composites from each discharge line may be combined proportional to their flow only if physical flow measurement can be done.

Metals
Phenol-4AAP
BOD
Total Suspended Solids
Total Phosphorus
TKN/Ammonia
Base/Neutral Acids (EPA 625)
EPA Methods 604-613

(For a continuous discharge, a minimum of forty-eight (48) individual grab samples (at half-hour intervals) shall be collected from each discharge line and combined to constitute a twenty-four (24) hour composite sample. For intermittent discharges of less than four (4) hours duration, grab samples shall be taken at a minimum of fifteen (15) minute intervals.)

14. A chain of custody log sheet is required to be used for all sampling and analysis of each sample and attached to the report.

15. The handling, storage preservation and analytical procedures for each parameter shall follow Environmental Protection Agency Guidelines published in the Federal Register, pursuant to 40 CFR 136, dated October 26, 1984, or as subsequently revised.

16. The monitoring results report, sampling record(s), and chain of custody log sheet must be sent by the industry to the District and not by the consulting firm.

17. If any exemptions or changes have to be made due to unique situations, the District must be notified immediately for approval. When approved, a written explanation of the change must accompany the analysis sheet.

18. Any split samples that indicate a discrepancy of greater than 20% may be grounds for requiring resampling and analyses.

19. "QUALITY CONTROL" - All additional analyses which were run along with self-monitoring samples as a quality control measure, such as field blanks, duplicates or matrix spikes, etc., must be included in the self-monitoring report submitted to the District. Applicable quality control is mandatory in cases where the industrial user is conducting additional self-monitoring as a result of non-compliance.

20. All analyses conducted pursuant to this permit shall be performed by a laboratory certified for said analyses by the New York State Department of Health.

Attachment D

FILE COPY

Olin

P. O. BOX 248, 1186 LOWER RIVER ROAD, NW, CHARLESTON, TN 37310-0248

(423) 336-4000 FAX: (423) 336-4166

November 15, 2004

Mr. Frank Nerone
Chief Operator
Niagara County Sewer District #1
7346 Liberty Drive
Niagara Falls, NY 14304

Re: Analytical Sampling Results (9/13/04 Semi-Annual Sample)
Groundwater Discharge Through Pre-Treatment System
Pendleton (Frontier Chemical) Site

Dear Mr. Nerone:

Enclosed for your review are the analytical results from the September 13, 2004 sampling event for discharge of collected groundwater from the pre-treatment system at the Pendleton Site. Results from this sampling event are compared with the Permit (#02-11) requirements on the attached Analytical and Flow Summary sheet.

A review of analytical data indicates that all permit parameters are within permit discharge requirements. A review of the daily flow data from March, 2004 to September, 2004 shows no change during normal operating conditions.

Please contact me with any questions at 423/336-4587. Thank you.

Sincerely,

Michael J. Bellotti

Michael J. Bellotti
For the Frontier Chemical – Pendleton Site PRP Group

cc:
D. Kummer
Pendleton Site Technical Committee

David Cook, Esq.
Nixon, Hargrave, Devans & Doyle
900 Clinton Square
P.O. Box 1051
Rochester, NY 14604

Dave Moreira
Waste Management – Closed Sites Dept.
4 Liberty Lane West
Hampton, NJ 03842

Maria Kaouris
Honeywell
101 Columbia Road
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Morristown, NJ 07962

William J. Hamel, Esq.
ATOFINA Chemicals, Inc.
2000 Market Street, 26th Floor
Philadelphia, PA 19103-3222

Ted Hadzi-Antich, Esq.
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Dennis P. Harkowitz, Esq.
Jaecekle, Fleishman & Mugel
Fleet Bank Building
Twelve Fountain Plaza
Buffalo, NY 14202-2292

Sandra VanWormer, Esq.
Legal Department
The Dow Chemical Company
2030 Dow Center
Midland, MI 48642

September 2004 Analytical Summary for WS 001
Permit # 02-11
Groundwater Discharge Point: D 002

657,897	Gallons Discharged Prior To	9/13/2004
73,206	Gallons Since Last Report (1)	
441	Average Gallons per Day Flow Between Reporting Events	

Parameters Treatment System Discharge	Permit Limit	Detection Limits, MQL	9/13/2004 Sample Results
624 Analytes	ug/L	ug/L	ug/L
Toluene	10.0	1.0	< 1.0
1,2-Dichloroethane	10.0	1.0	< 1.0
4-Methyl-2-Pentanone	10.0	2.0	< 2.0
Vinyl Chloride	10.0	1.0	< 1.0
Methylene Chloride	10.0	2.0	< 2.0
trans-1,2-Dichloroethene	10.0	1.0	< 1.0
1,1,1-Trichloroethane	10.0	1.0	< 1.0
Trichloroethene	10.0	1.0	< 1.0
Benzene	10.0	1.0	< 1.0
Chloromethane		2.0	< 2.0
Bromomethane		2.0	< 2.0
Chloroethane		2.0	< 2.0
Chloroform		1.0	< 1.0
Carbon Tetrachloride		1.0	< 1.0
1,1-Dichloroethene		1.0	< 1.0
Trichlorofluoromethane		1.0	< 1.0
1,1-Dichloroethane		1.0	< 1.0
1,2-Dichloropropane		1.0	< 1.0
Bromodichloromethane		1.0	< 1.0
2-Chloroethylvinyl ether		10.0	< 10.0
cis-1,3-Dichloropropene		1.0	< 1.0
trans-1,3-Dichloropropene		1.0	< 1.0
1,1,2-Trichloroethane		1.0	< 1.0
Tetrachloroethene		1.0	< 1.0
Dibromochloromethane		1.0	< 1.0
Chlorobenzene		1.0	< 1.0
Ethylbenzene		1.0	< 1.0
Bromoform		1.0	< 1.0
1,1,2,2-Tetrachloroethane		1.0	< 1.0
1,3-Dichlorobenzene		1.0	< 1.0
1,4-Dichlorobezene		1.0	< 1.0
1,2-Dichlorobenzene		1.0	< 1.0
Sum of 624 Analytes		46.0	< 46.0
608 Pesticides	ug/L	ug/L	ug/L
alpha BHC	10.0		NA
beta BHC	20.0		NA
delta BHC	10.0		NA
gamme BHC	10.0		NA
Heptachlor	8.0		NA
Aldrin	8.0		NA
Heptachlor Epoxide	9.0		NA
4,4-DDE	20.0		NA
Methoxychlor	18.0		NA
Metals	mg/L	mg/L	mg/L
Antimony	0.1	0.011	< 0.011
Boron	4.00	0.100	0.224
Chromium	5.33	0.005	< 0.005
Cyanide(T)	2.0	0.010	< 0.010
Other	mg/L	mg/L	mg/L
Total Phenolics	NA	0.005	< 0.005
TSS	300	4.000	< 4.0

Legend:
(B) Detected in Blank
NA Not Applicable
(1) Volume includes recirculating water from hole in GAC unit and bag filter back to sump.

WASTE STREAM TECHNOLOGY, INC.
302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 09/28/04
Work Order Number: 4I13007

Prepared For
Mike Walker
Sevenson Environmental Services
2749 Lockport Road
Niagara Falls, NY 14302
Fax: (716) 285-4201

Site: Olin-Pendleton Site

Enclosed are the results of analyses for samples received by the laboratory on 09/13/04. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian S. Schepart, Ph.D., Laboratory Director

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757

Sevenson Environmental Services	Project: SES Olin	
2749 Lockport Road	Project Number: Olin-Pendleton Site	Reported:
Niagara Falls NY, 14302	Project Manager: Mike Walker	09/28/04 10:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-091304	4I13007-01	Water	09/13/04 00:00	09/13/04 12:20

Sevenson Environmental Services	Project: SES Olin	
2749 Lockport Road	Project Number: Olin-Pendleton Site	Reported:
Niagara Falls NY, 14302	Project Manager: Mike Walker	09/28/04 10:07

Metals by EPA 200 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-091304 (4I13007-01) Water	Sampled: 09/13/04 00:00	Received: 09/13/04 12:20							
Boron	0.224	0.100	mg/L	1	AI41313	09/13/04	09/27/04	EPA 200.7	
Chromium	ND	0.005	"	"	"	"	09/24/04	"	
Antimony	ND	0.011	"	"	"	"	"	"	

Sevenson Environmental Services	Project: SES Olin	
2749 Lockport Road	Project Number: Olin-Pendleton Site	Reported:
Niagara Falls NY, 14302	Project Manager: Mike Walker	09/28/04 10:07

Purgeables by EPA Method 624

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-091304 (4I13007-01) Water	Sampled: 09/13/04 00:00	Received: 09/13/04 12:20							
chloromethane	ND	2.0	ug/l	1	AI42216	09/22/04	09/22/04	624	U
vinyl chloride	ND	1.0	"	"	"	"	"	"	U
bromomethane	ND	2.0	"	"	"	"	"	"	U
chloroethane	ND	2.0	"	"	"	"	"	"	U
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	U
1,1-dichloroethene	ND	1.0	"	"	"	"	"	"	U
methylene chloride	ND	2.0	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	1.0	"	"	"	"	"	"	U
1,1-dichloroethane	ND	1.0	"	"	"	"	"	"	U
chloroform	ND	1.0	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	1.0	"	"	"	"	"	"	U
carbon tetrachloride	ND	1.0	"	"	"	"	"	"	U
benzene	ND	1.0	"	"	"	"	"	"	U
1,2-dichloroethane	ND	1.0	"	"	"	"	"	"	U
trichloroethene	ND	1.0	"	"	"	"	"	"	U
1,2-dichloropropane	ND	1.0	"	"	"	"	"	"	U
bromodichloromethane	ND	1.0	"	"	"	"	"	"	U
2-chloroethylvinyl ether	ND	10.0	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	1.0	"	"	"	"	"	"	U
toluene	ND	1.0	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	1.0	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	1.0	"	"	"	"	"	"	U
tetrachloroethene	ND	1.0	"	"	"	"	"	"	U
dibromochloromethane	ND	1.0	"	"	"	"	"	"	U
chlorobenzene	ND	1.0	"	"	"	"	"	"	U
ethylbenzene	ND	1.0	"	"	"	"	"	"	U
bromoform	ND	1.0	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	1.0	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	1.0	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	1.0	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	1.0	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*74-117*		"	"	"	"	
Surrogate: Toluene-d8		*97.7 %*	*82-123*		"	"	"	"	
Surrogate: Bromofluorobenzene		*97.7 %*	*85-123*		"	"	"	"	

Sevenson Environmental Services	Project: SES Olin	
2749 Lockport Road	Project Number: Olin-Pendleton Site	Reported:
Niagara Falls NY, 14302	Project Manager: Mike Walker	09/28/04 10:07

Conventional Chemistry Parameters by APHA/EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-091304 (4I13007-01) Water	**Sampled: 09/13/04 00:00**	**Received: 09/13/04 12:20**							
Cyanide (total)	ND	0.010	mg/L	1	AI41701	09/16/04	09/16/04	EPA 335.2	
Phenols	ND	0.005	"	"	AI42409	09/23/04	09/23/04	EPA 420.1	
Total Suspended Solids	ND	4.0	"	"	AI41602	09/15/04	09/16/04	EPA 160.2	

Notes and Definitions

U	Analyte included in the analysis, but not detected
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY

GROUP # 4I13007

DUE DATE

TURN AROUND TIME: Standard

QUOTATION NUMBER:

PAGE 1 of 1

ARE SPECIAL DETECTION LIMITS REQUIRED: YES NO
If yes please attach requirements.

Is a QC Package required: YES NO
If yes please attach requirements

REPORT TO: [illegible]
[illegible]
[illegible]
CONTACT: [illegible]
PH. #: [illegible]
FAX #: 716 [illegible]
BILL TO: [illegible]
[illegible] Walton
PO#: [illegible]
PROJECT DESCRIPTION: [illegible] Pendleton Site
SAMPLER'S SIGNATURE: [signature]

DW DRINKING WATER
X GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE GW	TOTAL NO. OF CONTAINERS	VOC's	T-CN	T-BG, 5B	Phenol	TS						TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D.
1	Tw-091304 - 01	9/13/04		Grab		X										HCl Preserve	01
2	Tw-091304 - 02	↓		↓			X									NaOH	
3	Tw-091304 - 03	↓		↓				X								HNO3	
4	Tw-091304 - 04	↓		↓					X							H2SO4	
5	Tw-091304 - 05	↓		↓						X						8 oz	
6																	
7																	
8																	
9																	
10																	

REMARKS: Send Copy of Results to: John Burns
OLIN CORP.
PO Box 248
1186 Lower River Road, Charleston, TN 37310

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	9/13/04	12:20 PM	[signature]	9/13/04	12:20
RELINQUISHED BY:	DATE: / /	TIME:	RECEIVED BY:	DATE: / /	TIME:

Olin

P. O. BOX 248, 1186 LOWER RIVER ROAD, NW, CHARLESTON, TN 37310-0248

(423) 336-4000 FAX: (423) 336-4166

June 13, 2005

Mr. Frank Nerone
Chief Operator
Niagara County Sewer District #1
7346 Liberty Drive
Niagara Falls, NY 14304

Re: Analytical Samplling Results (4/12/05 Semi-Annual Sample)
Groundwater Discharge Through Pre-Treatment System
Pendleton (Frontier Chemical) Site

Dear Mr. Nerone:

Enclosed for your review are the analytical results from the April 12, 2005 sampling event for discharge of collected groundwater from the pre-treatment system at the Pendleton Site. Results from this sampling event are compared with the Permit (#02-11) requirements on the attached Analytical and Flow Summary sheet.

A review of analytical data indicates that all permit parameters are within permit discharge requirements. A review of the daily flow data from October, 2004 through April, 2005 shows no change during normal operating conditions.

Please contact me with any questions at 423/336-4587. Thank you.

Sincerely,

Michael J. Bellotti
For the Frontier Chemical – Pendleton Site PRP Group

cc:
D. Kummer
Pendleton Site Technical Committee

September 2004 Analytical Summary for WS 001
Permit # 02-11
Groundwater Discharge Point: D 002

90,895	Gallons Since Last Report (1) (2)
397	Average Gallons per Day Flow Between Reporting Events

Parameters Treatment System Discharge	Permit Limit	Detection Limits, MQL	4/12/2005 Sample Results	
624 Analytes	ug/L	ug/L	ug/L	
Toluene	10.0	1.0	<	1.0
1,2-Dichloroethane	10.0	1.0	<	1.0
4-Methyl-2-Pentanone	10.0	2.0	<	2.0
Vinyl Chloride	10.0	1.0	<	1.0
Methylene Chloride	10.0	2.0	<	2.0
trans-1,2-Dichloroethene	10.0	1.0	<	1.0
1,1,1-Trichloroethane	10.0	1.0	<	1.0
Trichloroethene	10.0	1.0	<	1.0
Benzene	10.0	1.0	<	1.0
Chloromethane		2.0	<	2.0
Bromomethane		2.0	<	2.0
Chloroethane		2.0	<	2.0
Chloroform		1.0	<	1.0
Carbon Tetrachloride		1.0	<	1.0
1,1-Dichloroethene		1.0	<	1.0
Trichlorofluoromethane		1.0	<	1.0
1,1-Dichloroethane		1.0	<	1.0
1,2-Dichloropropane		1.0	<	1.0
Bromodichloromethane		1.0	<	1.0
2-Chloroethylvinyl ether		10.0	<	10.0
cis-1,3-Dichloropropene		1.0	<	1.0
trans-1,3-Dichloropropene		1.0	<	1.0
1,1,2-Trichloroethane		1.0	<	1.0
Tetrachloroethene		1.0	<	1.0
Dibromochloromethane		1.0	<	1.0
Chlorobenzene		1.0	<	1.0
Ethylbenzene		1.0	<	1.0
Bromoform		1.0	<	1.0
1,1,2,2-Tetrachloroethane		1.0	<	1.0
1,3-Dichlorobenzene		1.0	<	1.0
1,4-Dichlorobezene		1.0	<	1.0
1,2-Dichlorobenzene		1.0	<	1.0
Sum of 624 Analytes		46.0	<	46.0
608 Pesticides	ug/L	ug/L		ug/L
alpha BHC	10.0			NA
beta BHC	20.0			NA
delta BHC	10.0			NA
gamme BHC	10.0			NA
Heptachlor	8.0			NA
Aldrin	8.0			NA
Heptachlor Epoxide	9.0			NA
4,4-DDE	20.0			NA
Methoxychlor	18.0			NA
Metals	mg/L	mg/L		mg/L
Antimony	0.1	0.011	<	0.011
Boron	4.00	0.100		**0.136**
Chromium	5.33	0.005	<	0.005
Cyanide(T)	2.0	0.010	<	0.010
Other	mg/L	mg/L		mg/L
Total Phenolics	NA	0.005	<	0.005
TSS	300	4.000	<	4.0

Legend:

(B)	Detected in Blank
NA	Not Applicable
(1)	Volume includes recirculating water from hole in GAC unit and bag filter back to sump.
[2]	Volume includes mid-September-04 through April 30-05

WASTE STREAM TECHNOLOGY, INC.

302 Grote Street
Buffalo, NY 14207
(716) 876-5290

Analytical Data Report
Report Date: 04/26/05
Work Order Number: 5D12018

Prepared For
Mike Belloti
Olin Corporation
1186 Lower River Road
Charleston, TN 37310
Fax: (423) 336-4166

Site: Frontier, Pendleton

Enclosed are the results of analyses for samples received by the laboratory on 04/12/05. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Daniel W. Vollmer

Daniel W. Vollmer, Laboratory QA/QC Officer

ENVIRONMENTAL LABORATORY ACCREDITATION CERTIFICATION NUMBERS
NYSDOH ELAP #11179 NJDEPE #73977 PADEP #68757

Olin Corporation	Project: Frontier Pendleton Site	
1186 Lower River Road	Project Number: Frontier, Pendleton	Reported:
Charleston TN, 37310	Project Manager: Mike Belloti	04/26/05 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TW-4-12-05	5D12018-01	Water	04/12/05 10:30	04/12/05 15:50

Olin Corporation	Project: Frontier Pendleton Site	
1186 Lower River Road	Project Number: Frontier, Pendleton	**Reported:**
Charleston TN, 37310	Project Manager: Mike Belloti	04/26/05 16:53

Metals by EPA 200 Series Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-4-12-05 (5D12018-01) Water Sampled: 04/12/05 10:30 Received: 04/12/05 15:50									
Boron	**0.136**	0.100	mg/L	1	AD51431	04/14/05	04/14/05	EPA 200.7	
Chromium	ND	0.005	"	"	"	"	"	"	
Antimony	ND	0.011	"	"	"	"	04/14/05	"	

Olin Corporation	Project: Frontier Pendleton Site	
1186 Lower River Road	Project Number: Frontier, Pendleton	Reported:
Charleston TN, 37310	Project Manager: Mike Belloti	04/26/05 16:53

Purgeables by EPA Method 624

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-4-12-05 (5D12018-01) Water	**Sampled: 04/12/05 10:30**	**Received: 04/12/05 15:50**							
chloromethane	ND	2.0	ug/l	1	AD51906	04/19/05	04/19/05	624	U
vinyl chloride	ND	1.0	"	"	"	"	"	"	U
bromomethane	ND	2.0	"	"	"	"	"	"	U
chloroethane	ND	2.0	"	"	"	"	"	"	U
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	U
1,1-dichloroethene	ND	1.0	"	"	"	"	"	"	U
methylene chloride	ND	2.0	"	"	"	"	"	"	U
trans-1,2-dichloroethene	ND	1.0	"	"	"	"	"	"	U
1,1-dichloroethane	ND	1.0	"	"	"	"	"	"	U
chloroform	ND	1.0	"	"	"	"	"	"	U
1,1,1-trichloroethane	ND	1.0	"	"	"	"	"	"	U
carbon tetrachloride	ND	1.0	"	"	"	"	"	"	U
benzene	ND	1.0	"	"	"	"	"	"	U
1,2-dichloroethane	ND	1.0	"	"	"	"	"	"	U
trichloroethene	ND	1.0	"	"	"	"	"	"	U
1,2-dichloropropane	ND	1.0	"	"	"	"	"	"	U
bromodichloromethane	ND	1.0	"	"	"	"	"	"	U
2-chloroethylvinyl ether	ND	10.0	"	"	"	"	"	"	U
4-Methyl-2-pentanone (MIBK)	ND	5.0	"	"	"	"	"	"	U
cis-1,3-dichloropropene	ND	1.0	"	"	"	"	"	"	U
toluene	ND	1.0	"	"	"	"	"	"	U
trans-1,3-dichloropropene	ND	1.0	"	"	"	"	"	"	U
1,1,2-trichloroethane	ND	1.0	"	"	"	"	"	"	U
tetrachloroethene	ND	1.0	"	"	"	"	"	"	U
dibromochloromethane	ND	1.0	"	"	"	"	"	"	U
chlorobenzene	ND	1.0	"	"	"	"	"	"	U
ethylbenzene	ND	1.0	"	"	"	"	"	"	U
bromoform	ND	1.0	"	"	"	"	"	"	U
1,1,2,2-tetrachloroethane	ND	1.0	"	"	"	"	"	"	U
1,3-dichlorobenzene	ND	1.0	"	"	"	"	"	"	U
1,4-dichlorobenzene	ND	1.0	"	"	"	"	"	"	U
1,2-dichlorobenzene	ND	1.0	"	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*74-117*		"	"	"	"	
Surrogate: Toluene-d8		*99.3 %*	*82-123*		"	"	"	"	
Surrogate: Bromofluorobenzene		*105 %*	*85-123*		"	"	"	"	

Olin Corporation	Project: Frontier Pendleton Site	
1186 Lower River Road	Project Number: Frontier, Pendleton	Reported:
Charleston TN, 37310	Project Manager: Mike Belloti	04/26/05 16:53

Conventional Chemistry Parameters by EPA Methods

Waste Stream Technology Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TW-4-12-05 (5D12018-01) Water	**Sampled: 04/12/05 10:30**	**Received: 04/12/05 15:50**							
Cyanide (total)	ND	0.010	mg/L	1	AD52118	04/21/05	04/21/05	EPA 335.2	
Phenols	ND	0.005	"	"	AD52620	04/26/05	04/26/05	EPA 420.1	
Total Suspended Solids	ND	4.0	"	"	AD51434	04/14/05	04/15/05	EPA 160.2	U

Notes and Definitions

U	Analyte included in the analysis, but not detected
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 5D12018
DUE DATE

PAGE 1 OF

REPORT TO: [illegible]
[illegible] Rd
[illegible] TN 37310

CONTACT: Mike Bellott
PH. # ( ) [illegible] 336-4587
FAX # ( ) [illegible] 336-4166
BILL TO: [illegible]
[illegible]
PO#
[illegible] Pendleton
PROJECT DESCRIPTION
[illegible]
SAMPLER SIGNATURE

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL

SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

TURN AROUND TIME: Standard

QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED:
YES NO
If yes please attach requirements.

Is a QC Package required:
YES NO
If yes please attach requirements

ANALYSES TO BE PERFORMED

	SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS	VOC	METALS	TSS	Phenol	Oil						TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D
1	MW-4-12-05	4-12-05	1030	GW	2	X										40 ml vial [illegible]	
2	[illegible]-41205				1		X									500 ml pl. [illegible]	
3	[illegible]-41205				1			X								500 ml pl	
4	[illegible]-4-12-05				1				X							1 Liter Glass [illegible]	
5	[illegible]-4-12-05				1					X						250 ml pl. [illegible]	
6																	
7																	
8																	
9																	
10																	

REMARKS: Standard turn around time.

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
[signature]	4/12/05	1400	[signature]	4/12/05	
RELINQUISHED BY: [signature]	4/12/05	1550	RECEIVED BY: [signature]	[illegible]	

CHAIN OF CUSTODY

WASTE STREAM TECHNOLOGY

Waste Stream Technology Inc.
302 Grote Street, Buffalo, NY 14207
(716) 876-5290 • FAX (716) 876-2412

OFFICE USE ONLY
GROUP # 5D1.01
DUE DATE _____

PAGE _____ OF _____

REPORT TO:

CONTACT

PH. # ( )

FAX # ( )

BILL TO:

PO#

PROJECT DESCRIPTION

SAMPLER SIGNATURE

DW DRINKING WATER
GW GROUND WATER
SW SURFACE WATER
WW WASTE WATER
O OIL
SL SLUDGE
SO SOIL
S SOLID
W WIPE
OTHER

TURN AROUND TIME:

QUOTATION NUMBER:

ARE SPECIAL DETECTION LIMITS REQUIRED:
YES NO
If yes please attach requirements.

Is a QC Package required:
YES NO
If yes please attach requirements

ANALYSES TO BE PERFORMED

SAMPLE I.D.	DATE SAMPLED	TIME OF SAMPLING	SAMPLE TYPE	TOTAL NO. OF CONTAINERS										TYPE OF CONTAINER/ COMMENTS:	OFFICE USE ONLY WST. I.D
1				2											
2				1											
3				1											
4															
5															
6															
7															
8															
9															
10															

REMARKS:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
	/ /	1400		/ /	
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
	/ /	1550		/ /	

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	4/12/05- 4/14/05

Time In:	0800		
Time Out:	1700		

Weather:	Sunny
Precipitation, inches:	0
Temperature, °F:	55-65 F
Purpose for Visit:	Annual Sampling and Site Inspection Event

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	281698	**Gal**	0930
1" Final Discharge Flowmeter Totalization Reading	258959	**Gal**	0930
½" Sump Flowmeter Totalization Reading	129019	**Gal**	0930
Flow rate, (during testing, P-1= P-2=	Shut down	**GPM**	
Pump Hour Meter Readings: Pump #1	1049.1	**Hours**	0930
Pump Hour Meter Readings: Pump #2	898.1	**Hours**	0930
Wet Well Level	<2	**Ft**	0930
Pressure Sensor Reading (Bar Graph) during test		**Psi**	

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1			
BF2			
GAC1			
GAC2			

Changed Filter Bags (Check One)	**YES**		**TIME**	
	NO			

Item	Details
	Shut down the system so the sediment in the purge water that we dump into the well does not clog the bag filters.
	The system will be restarted when the sampling is complete.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information: Met on site with Jesse Grossman of Glynn to check the lake level (578.49), Also met with the reps. From the NYSDEC, (Brian Sydowski and Jeff Konsella), to do a site walk and general inspection of the premises. This all happened on Tues 4/12/05. We also pulled a sample of the treated water from the system and delivered it to Waste Stream Technology in Buffalo, NY for analytical testing.
Continued on Wed. 4/13/05 and Thursday 4/14/05 with the sampling of ground water from the wells onsite as per the O&M requirements. All went well.

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	3/28/05

Time In:	0800		
Time Out:	1200		

Weather:	Cloudy
Precipitation, inches:	0
Temperature, °F:	30
Purpose for Visit:	Monthly Inspection

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	268527	**Gal**	0820
1" Final Discharge Flowmeter Totalization Reading	246069	**Gal**	0820
½" Sump Flowmeter Totalization Reading	120339	**Gal**	0820
Flow rate, (during testing, P-1= 8.64 P-2= 8.63		**GPM**	0920
Pump Hour Meter Readings: Pump #1	1037.8	**Hours**	0820
Pump Hour Meter Readings: Pump #2	884.1	**Hours**	0820
Wet Well Level	< 2'	**Ft**	0820
Pressure Sensor Reading (Bar Graph) during test	33.7	**Psi**	0920

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	33	33	0
BF2	33	33	0
GAC1	28	14	-14
GAC2	14	14	0

Changed Filter Bags (Check One)	**YES**	X	**TIME**	0900
	NO			

Item	Details
032805-1	Bag filters that were changed out looked cleaner that usual this month. Not as much orange silt in them.
	No piping leaks during tests. Changed chart in print recorder.
	All gates and fences locked and secure and in tact. Fire extinguisher OK. Rodent burrows evident on cap once the snow melted.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions
	I will return to smoke out the rodents living in the cap. And regrade and reseed the affected area.

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	2/28/05

Time In:	1400		
Time Out:	1700		

Weather:	Snowing, Cold
Precipitation, inches:	8" snow
Temperature, °F:	29 F
Purpose for Visit:	Mo. Insp.

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	258741	**Gal**	1430
1" Final Discharge Flowmeter Totalization Reading	236439	**Gal**	1430
½" Sump Flowmeter Totalization Reading	115653	**Gal**	1430
Flow rate, (during testing, P-1= 8.71 P-2= 8.54		**GPM**	1600
Pump Hour Meter Readings: Pump #1	1028.2	**Hours**	1430
Pump Hour Meter Readings: Pump #2	874.6	**Hours**	1430
Wet Well Level	<2'	**Ft**	1430
Pressure Sensor Reading (Bar Graph) during test	34	**Psi**	1600

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	34	34	0
BF2	34	28	-6
GAC1	28	14	-14
GAC2	14	14	0

Changed Filter Bags (Check One)	**YES**	X	**TIME**	1600
	NO			

Item	Details
022805-1	System performing well, checked out ok.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	1/28/05

Time In:	0900		
Time Out:	1200		

Weather:	Cold /Cloudy
Precipitation, inches:	Lt. Flurries
Temperature, °F:	20 F
Purpose for Visit:	Mo. Insp.

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	246060	Gal	0945
1" Final Discharge Flowmeter Totalization Reading	223959	Gal	0945
½" Sump Flowmeter Totalization Reading	107888	Gal	0945
Flow rate, (during testing, P-1= 8.77 P-2= 8.58		GPM	
Pump Hour Meter Readings: Pump #1	1016.1	Hours	0945
Pump Hour Meter Readings: Pump #2	862.2	Hours	0945
Wet Well Level	<2'	Ft	0945
Pressure Sensor Reading (Bar Graph) during test	31	Psi	

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	30	30	0
BF2	30	30	0
GAC1	26	14	-12
GAC2	14	14	0

Changed Filter Bags (Check One)	YES	X	TIME	1015
	NO			

Item	Details
012805-1	System checked out OK. Much snow outside. Dry inside.
	Had to plow the driveway to get to the vault.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	12/21/04

Time In:	1030	**Am**	
Time Out:	1330	**Pm**	

Weather:	Cloudy
Precipitation, inches:	0
Temperature, °F:	13
Purpose for Visit:	Monthly Inspection

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	223051	**Gal**	1100
1" Final Discharge Flowmeter Totalization Reading	201209	**Gal**	1100
½" Sump Flowmeter Totalization Reading	96690	**Gal**	1100
Flow rate, (during testing, P-1= 8.8 P-2=8.6		**GPM**	
Pump Hour Meter Readings: Pump #1	993.8	**Hours**	1100
Pump Hour Meter Readings: Pump #2	840.0	**Hours**	1100
Wet Well Level	<2'	**Ft**	1100
Pressure Sensor Reading (Bar Graph) during test	32psi	**Psi**	1245

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	32	32	0
BF2	32	32	0
GAC1	25	15	-10
GAC2	15	15	0

Changed Filter Bags (Check One)	**YES**	X	**TIME**	1230
	NO			

Item	Details
	System checks out OK, no leaks. Performed monthly inspection of site .All gates and locks secure. All fences in good order.
	I had to reboot the autodialer as it showed that a power fault condition had occurred. I checked to make sure the panel heater and thermostat were functioning properly.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	11/24/04

Time In:	2:00	PM	
Time Out:	5:00	PM	

Weather:	Cloudy / Partly Sunny
Precipitation, inches:	0
Temperature, °F:	47
Purpose for Visit:	Monthly Inspection

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	211792	Gal	2:30
1" Final Discharge Flowmeter Totalization Reading	190089	Gal	2:30
½" Sump Flowmeter Totalization Reading	92452	Gal	2:30
Flow rate, (during testing, P-1= 8.74 P-2= 8.71		GPM	3:30
Pump Hour Meter Readings: Pump #1	983.1	Hours	2:30
Pump Hour Meter Readings: Pump #2	829.1	Hours	2:30
Wet Well Level	<2'	Ft	2:30
Pressure Sensor Reading (Bar Graph) during test	31	Psi	3:30

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	31	31	0
BF2	31	31	0
GAC1	25	14	-11
GAC2	14	14	0

Changed Filter Bags (Check One)	YES	X	TIME	3:15
	NO			

Item	Details

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	11/2/04

Time In:	1030		
Time Out:	1330		

Weather:	Rainy
Precipitation, inches:	.80"
Temperature, °F:	65
Purpose for Visit:	Monthly Insp. (October)

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	205292	**Gal**	1145
1" Final Discharge Flowmeter Totalization Reading	183676	**Gal**	1145
½" Sump Flowmeter Totalization Reading	91016	**Gal**	1145
Flow rate, (during testing, P-1= 8.77 P-2= 8.66		**GPM**	1230
Pump Hour Meter Readings: Pump #1	976.9	**Hours**	1145
Pump Hour Meter Readings: Pump #2	822.8	**Hours**	1145
Wet Well Level	< 2'	**Ft**	1145
Pressure Sensor Reading (Bar Graph) during test	32.20	**Psi**	1230

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	32	32	0
BF2	32	32	0
GAC1	27	14	-13
GAC2	14	14	0

Changed Filter Bags (Check One)	**YES**	X	**TIME**	1215
	NO			

Item	Details
11/2/04.1	Only 1 gopher hole looks like it may be active.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information: The system looks and tests OK. The vault floor is clean and dry, no leaks. All Locks are secure and no vandalism is eveident on site. The thermostat in the vault is set at 45 degrees for the winter season, and I turned on the small panel heater in the control panel and set the thermostat at 32 degrees.

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	no	no
#7 Pump # 2 Fail (Yes / No)	no	no
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	9-13-04

Time In:	0930		
Time Out:	1700		

Weather:	P/Cloudy
Precipitation, inches:	0
Temperature, °F:	65
Purpose for Visit:	Semi annual insp.

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	191213	**Gal**	1000
1" Final Discharge Flowmeter Totalization Reading	169824	**Gal**	1000
½" Sump Flowmeter Totalization Reading	89354	**Gal**	1000
Flow rate, (during testing, P-1= 8.74 P-2= 8.58		**GPM**	1130
Pump Hour Meter Readings: Pump #1	963.4	**Hours**	1000
Pump Hour Meter Readings: Pump #2	809.3	**Hours**	1000
Wet Well Level	<2	**Ft**	1000
Pressure Sensor Reading (Bar Graph) during test	30	**Psi**	1130

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	30	30	0
BF2	30	30	0
GAC1	25	12	-13
GAC2	12	12	0

Changed Filter Bags (Check One)	**YES**	X	**TIME**	1130
	NO			

Item	Details
	Blew out ¼" plug in Bag Filter #2 during the flow/pressure test. Replaced the plug with a presure guage tha t had a ¼" lower mount to stop the leaking and continue operation.
	Took samples of the treated water and delivered them to Waste Stream Technology for analysis.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	8/9/04

Time In:	3:00	**Pm**	
Time Out:	5:00	**Pm**	

Weather:	Sunny
Precipitation, inches:	0
Temperature, °F:	75 F
Purpose for Visit:	Monthly inspection

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	172195	**Gal**	3:00
1" Final Discharge Flowmeter Totalization Reading	151482	**Gal**	"
½" Sump Flowmeter Totalization Reading	77962	**Gal**	"
Flow rate, (during testing, P-1= 8.85 P-2= 8.65		**GPM**	
Pump Hour Meter Readings: Pump #1	945.3	**Hours**	"
Pump Hour Meter Readings: Pump #2	791.2	**Hours**	"
Wet Well Level	<2'	**Ft**	
Pressure Sensor Reading (Bar Graph) during test	28.25	**Psi**	4:15

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	29	29	0
BF2	29	29	0
GAC1	24	14	-6
GAC2	14	14	0

Changed Filter Bags (Check One)	**YES**	X	**TIME**	4:00
	NO			

Item	Details
	No Gopher activity on the cap.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	6-28-04

Time In:	11:24	**Am**	
Time Out:	1:00	**Pm**	

Weather:	Cloudy
Precipitation, inches:	Drizzle
Temperature, °F:	62
Purpose for Visit:	Monthly Inspection

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	153780	**Gal**	1135
1" Final Discharge Flowmeter Totalization Reading	134126	**Gal**	1135
½" Sump Flowmeter Totalization Reading	67412	**Gal**	1135
Flow rate, (during testing, P-1= 8.87 P-2= 8.63)		**GPM**	12:10
Pump Hour Meter Readings: Pump #1	927.9	**Hours**	12:10
Pump Hour Meter Readings: Pump #2	773.5	**Hours**	12:10
Wet Well Level	<2	**Ft**	1135
Pressure Sensor Reading (Bar Graph) during test	24	**Psi**	12:10

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	24	24	0
BF2	24	24	0
GAC1	20	12	-8
GAC2	12	12	0

Changed Filter Bags (Check One)	**YES**	X	**TIME**	12:00
	NO			

Item	Details
	All looks OK,
	Need to buy bag filters and wasp spray.

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Date:	5/28/04

Time In:	12:00 N		
Time Out:	3:00 PM		

Weather:	Partly Cloudy
Precipitation, inches:	0
Temperature, °F:	58
Purpose for Visit:	Monthly Insp.

Process Information	Reading	Units	Time
½" Process Flowmeter Totalization Reading (orig.)	142504	**Gal**	1205
1" Final Discharge Flowmeter Totalization Reading	123546	**Gal**	1205
½" Sump Flowmeter Totalization Reading	624303	**Gal**	1205
Flow rate, (during testing, P-1= 8.61 P-2= 8.79		**GPM**	1:20
Pump Hour Meter Readings: Pump #1	917.2	**Hours**	1205
Pump Hour Meter Readings: Pump #2	762.9	**Hours**	1205
Wet Well Level	<2'	**Ft**	1205
Pressure Sensor Reading (Bar Graph) during test	24	**Psi**	1:20

	Influent Gauge, Psi	Effluent Gauge, Psi	Differential
BF1	24	24	0
BF2	24	24	0
GAC1	20	12	-8
GAC2	12	12	0

Changed Filter Bags (Check One)	**YES**		**TIME**	1:00
	NO	X		

Item	Details
	Site looked well, tested systems, changed filter bags. Changed recorder chart.
	Walked the perimiter and inspected the fences for damage,(none found).

FRONTIER CHEMICAL – PENDLETON SITE
Pretreatment System' Operator's Log

Item	Planned Actions

Item	Recommended actions to prevent future problems

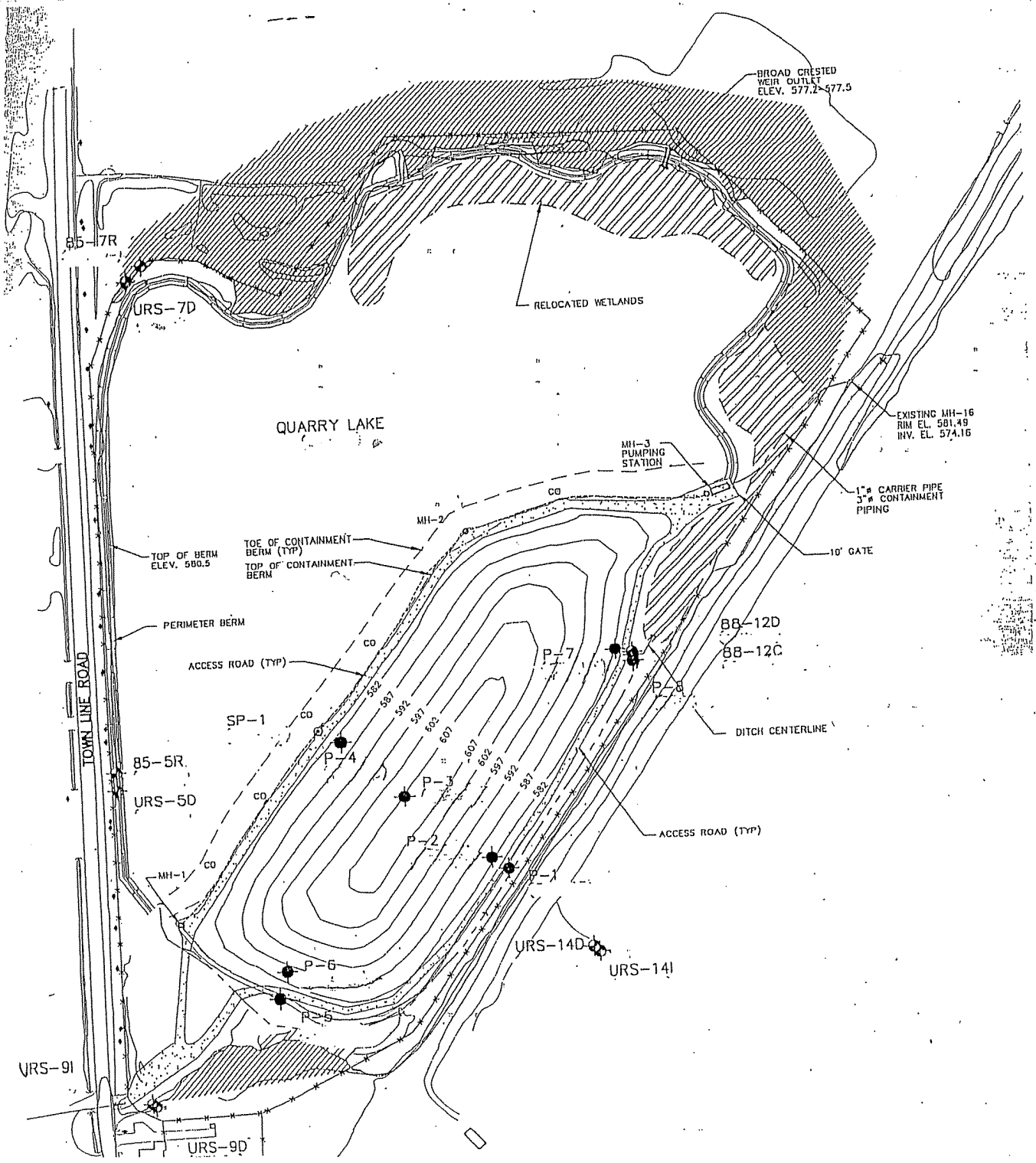
Other relevant information:

SYSTEM CHECK LIST	Arrival	Departure
#1 Vault Door	OK	OK
#2 Panel Door	OK	OK
#3 Vault Sump High	OK	OK
#4 Containment Pipe Alarm	OK	OK
#5 High Wet Well Alarm	OK	OK
#6 Pump #1 Fail (Yes / No)	OK	OK
#7 Pump # 2 Fail (Yes / No)	OK	OK
#8 Bag Filter Differential Pressure High	OK	OK
#9 Wet Well Level (Actual Measure Spoken)	OK	OK
#10 Flow Rate	OK	OK
#11 #16; Reserved for future use		
FOR CURRENT STATUS CALL: (716) 743-1335		

Operator Name: Mike Walker

Operator Signature:

Attachment F



LEGEND

- URS-7D — MONITORING WELL
- P-1 — PIEZOMETER
- (580.24) — WATER ELEVATION
- CREATED WETLAND AREA
- EXISTING WETLAND AREA
- 6' HIGH CHAIN LINK FENCE
- 580 — GRADE ELEVATION CONTOUR
- CO — GROUND WATER COLLECTION TRENCH & CLEAN OUT
- STANDPIPE
- UTILITY POLE

FRONTIER CHEMICAL
PENDLETON SITE
TOWN OF PENDLETON,
NIAGARA COUNTY, NY

Piezometer and Well Location

200 0 200

SCALE IN FEET

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-8

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing	X	Above Ground		Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	3.20			
Well Depth	17.00			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?	**Yes**	
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		**No**
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-7

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing		Above Ground	X	Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	7.02			
Well Depth	16.40			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?	**Yes**	
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		**No**
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-6

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing		Above Ground	X	Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	9.21			
Well Depth	15.90			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?		**No**
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		**No**
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-5

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing	X	Above Ground		Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	3.79			
Well Depth	15.31			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?	**Yes**	
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		**No**
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-4

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing		Above Ground	X	Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	8.59			
Well Depth	16.67			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?	**Yes**	
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		**No**
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-3

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing		Above Ground	X	Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	28.11			
Well Depth	35.50			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?	**Yes**	
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		No
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-2

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing		Above Ground	X	Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	6.61			
Well Depth	15.47			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?	**Yes**	
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		No
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

MONITORING WELL INTEGRITY CHECKLIST

Site Name: **Frontier Chemical – Pendleton site**

Well Identification: P-1

Personnel:Michael Walker

Date: 4/12/05

WELL SPECIFICATIONS

Protective Casing	X	Above Ground		Flush Mounted
Well Construction	X	PVC		Stainless Steel
Well Diameter	X	2-inch		4-inch
Depth to Ground Water	3.66			
Well Depth	16.16			

WELL INTEGRITY

1. Well identification clearly marked?	**Yes**	
2. Well covers and locks in good condition and secure?	**Yes**	
3. Is the well stand pipe vertically aligned and secure?	**Yes**	
4. Is the concrete pad and surface seal in good condition?	**Yes**	
5. Are soils surrounding the well pad eroded?		**No**
6. Is the well casing in good condition?	**Yes**	
7. Is the measuring point on casing well marked?	**Yes**	
8. Is there standing water in the annular space?		**No**
9. Is the stand pipe vented at the base to allow drainage?	**Yes**	
10. Does the total sounded depth correspond to the original well completion depth?	**Yes**	
11. Is the access down the well impeded or blocked? Explain.		**No**

COMMENTS / RECOMMENDATIONS:

Attachment G

GGE

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LETTER OF TRANSMITTAL

Civil • Structural • Geotechnical • Materials Testing • Consulting

TO:	DATE: May 17, 2005
Sevenson Environmental Services, Inc. 2749 Lockport Road Niagara Falls, New York 14305	ATTENTION: Mr. Mike Walker
	SUBJECT: Frontier Chemical Pendleton Site
	GGE PROJECT NO: 94-1014-O

WE ARE SENDING ATTACHED:

☐ LABORATORY TEST DATA ☒ FIELD REPORTS ☐ REPORT

☐ ENGINEERING DRAWINGS ☐ _____

COPIES	DATE	REPORT/SAMPLE NO.	DESCRIPTION
1	04/12/05	05-01	Field Observation Report

COPY

THESE ARE BEING SENT:

☒ FOR YOUR USE ☐ PER YOUR REQUEST ☐ _____

SINCERELY,

April Booth
Office/Systems Administrator

DISTRIBUTION

Mr. Mike Bellotti - PPRP Group

USPS/05.18.05

GLYNN GEOTECHNICAL ENGINEERING

415 South Transit Street, Lockport, New York 14094
voice 716.625.6933 / fax 716.625.6983
www.glynngroup.com

GGC

a member of the GLYNN GROUP

FIELD OBSERVATION REPORT

PROJECT NO.: 94-1014-O REPORT NO.: 05-01 DATE: 4/12/05 PAGE: 1 OF 2

PROJECT: Pendleton – Frontier Chemical Site DAY: Tuesday

SUBJECT: Lake Level Survey, Semi-Annual Insp. PROJECT TIME: 10:45 am – 12:30 pm

CLIENT: Sevenson Environmental Services, Inc. SITE TIME: 11:00 am – 12:00 pm

WEATHER: Cool, Clear (50°F) PHOTOS: Yes X No

- As notified by Mike Walker (Sevenson Environmental), visit the Pendleton site to record the surface water elevation of the lake to coincide with the semi-annual groundwater sampling and site inspection event.
- The Quarry Lake surface water level near the pre-treatment vault is recorded by level survey using the top of the pre-treatment vault benchmark El. 580.50'. The lake water elevation is recorded at El. 578.49'.
- Mike Walker and Chris (SES) are on site for the semi-annual groundwater sampling and to provide site access. Mike W. also operates the pinch valve at the pre-treatment vault manhole and performs a site walk-through.
- Following are cursory observations made while on site:
  - The capped area appears in good condition with no evidence of erosion, subsidence, or sloughing. Some areas along the cap toe, both on the lakeside and south side, are saturated with some standing surface water.
  - The previously noted rodent burrows are still evident and an additional burrow is noted at the east end of the cap. (See map page 2 of 2)
  - The overflow weir is inundated with approx. 8" of water.
  - There is standing water in the Zone "D" wetlands along the northeast side of the site and southwest end of the cap.
  - The site access roads are in good condition
- Leave site at approx. 12:00 pm, returning to GGE's Lockport office to prepare this report.

PERSONNEL ON SITE / CONTACTED:
Mike Walker, Chris – Sevenson

DISTRIBUTION:
Mike Walker – Sevenson Environmental
John Burns – Pendleton PRP Group

DAILY MANHOURS: 1.75 + report

Jesse E. Grossman, P.E. – Engineering Manager

Mark W. Glynn, P.E.

Civil • Structural • Geotechnical • Materials Testing • Consulting

GLYNN GEOTECHNICAL ENGINEERING

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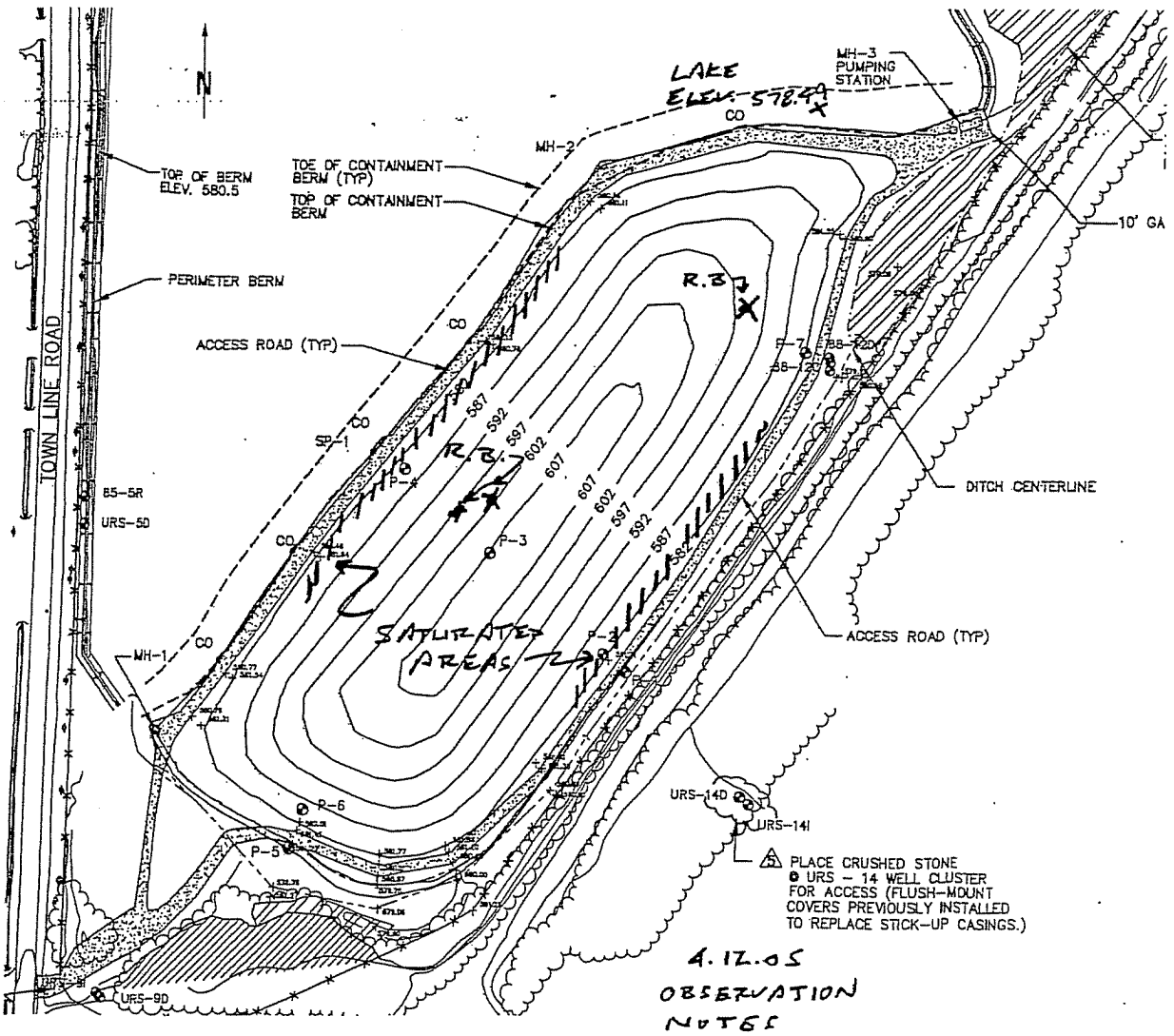
FIELD OBSERVATION REPORT

PROJECT NO.: 94-1014-O REPORT NO.: 05-01 DATE: 4/12/05 PAGE: 2 OF 2

Site Map:



JEJ

Civil • Structural • Geotechnical • Materials Testing • Consulting

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Attachment H

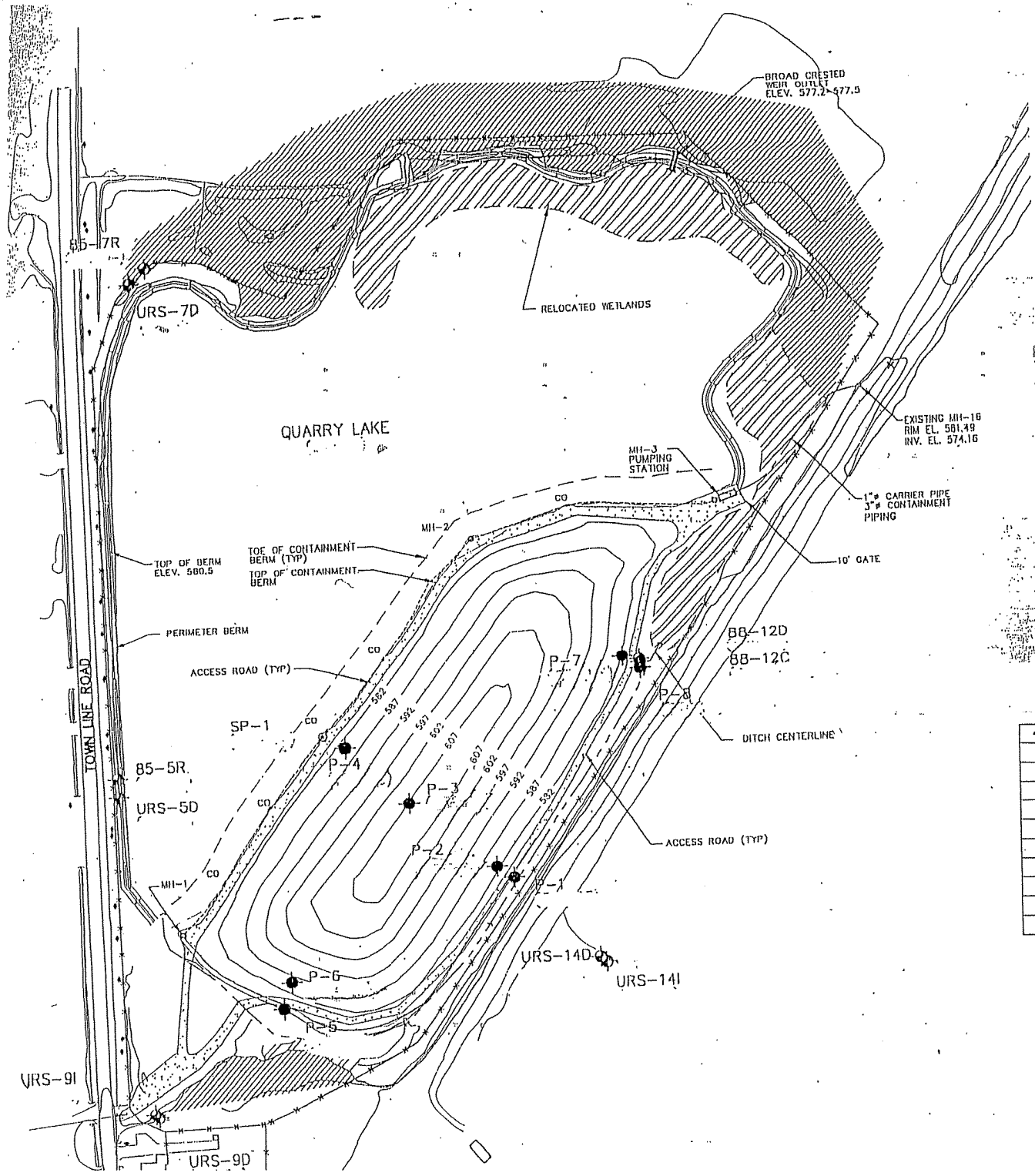
FRONTIER CHEMICAL - PENDLETON SITE
MAY 1997 THROUGH APRIL 2005
PIEZOMETER GROUND WATER ELEVATION SUMMARY

PIEZOMETER	POSITION	LOCATION	TOP OF RISER ELEVATION, FEET	TOP OF COVER ELEVATION, FEET	WELL DEPTH IN FEET BELOW RISER	SCREENED ELEVATION, FEET	0	98	244
							06/24/97	09/30/97	02/23/98
P-1	(O)	EASTERN PORTION OF CAPPED AREA	583.21	583.30	3.7	576.8 - 566.8	579.54	577.09	579.25
P-2	(I)		582.90	583.20	6.6	577.2 - 567.2	579.60	579.24	578.20
P-3	(I)	CENTER OF CAPPED AREA	606.33	606.64	28.1	586.6 - 566.6	580.36	580.38	580.06
P-4	(I)	ADJACENT TO QUARRY LAKE	582.31	583.85	8.6	576.7 - 566.7	577.15	577.43	576.70
SP-1	(T)		579.86	580.07	15.0	BOP = 564.9	564.90	564.90	564.90
P-5	(O)	SOUTHERN PORTION OF CAPPED AREA	583.05	583.55	3.8	577.6 - 567.6	576.87	577.25	578.57
P-6	(I)		584.45	584.60	9.2	578.3 - 568.3	578.77	579.17	578.14
P-7	(I)	NORTHERN PORTION OF CAPPED AREA	580.97	582.00	7.0	575.0 - 565.0	578.33	578.62	576.45
P-8	(O)		582.83	583.00	3.2	575.5 - 565.5	577.76	578.87	578.75

Notes:

1. Elevation based on USGS Datum.
2. bop = bottom of pipe.
3. O = piezometer located outside of capped area.
4. I = piezometer located inside capped area.
5. T = standpipe located within the ground water collection trench.
6. The top of riser of piezometer P-4 was modified on 4/28/98 from 583.68 feet to 582.31 feet to allow clearance for the installation of a locking expansion plug beneath the flush-mounted cover.
7. The top of riser of piezometer P-7 was modified on 4/28/98 from 581.84 feet to 580.97 feet to allow clearance for the installation of a locking expansion plug beneath the flush-mounted cover.

GROUND WATER ELEVATION, FEET												
308	450	589	778	958	1142	1329	1567	1744	2115	2493	2850	
04/28/98	09/17/98	02/03/99	08/11/99	2/7/00	8/9/00	02/12/01	10/08/01	04/03/02	04/09/03	04/21/04	4/12/2005	PIEZOMETER
579.60	575.62	572.97	575.83	573.76	576.66	577.24	574.27	575.11	572.56	572.56	579.55	P-1
578.37	578.76	576.96	578.27	575.59	577.60	577.24	577.36	576.30	574.70	574.70	576.29	P-2
579.94	579.80	579.96	579.38	579.29	578.95	577.24	578.64	578.79	577.11	577.11	578.22	P-3
575.11	575.96	574.58	575.56	573.96	575.11	573.90	576.51	573.30	572.89	572.89	573.72	P-4
564.90	564.90	564.90	564.90	564.90	564.90	564.90	564.90	564.90	564.90	564.90	564.90	SP-1
579.31	576.13	574.70	576.48	578.16	579.02	578.70	577.88	578.50	579.85	579.85	579.26	P-5
578.20	578.63	577.94	578.28	577.74	577.78	577.12	577.49	578.00	575.85	575.85	575.24	P-6
576.17	577.15	574.43	575.55	573.02	574.97	573.21	576.04	572.86	572.17	572.17	573.95	P-7
579.61	576.90	574.72	576.15	576.12	578.26	577.43	576.15	578.35	578.23	578.23	579.63	P-8



LEGEND

- URS-7D — MONITORING WELL
- P-1 — PIEZOMETER
- (580.24) — WATER ELEVATION
- CREATED WETLAND AREA
- EXISTING WETLAND AREA
- 6' HIGH CHAIN LINK FENCE
- 580 — GRADE ELEVATION CONTOUR
- CO — GROUND WATER COLLECTION TRENCH & CLEAN OUT
- STANDPIPE
- UTILITY POLE

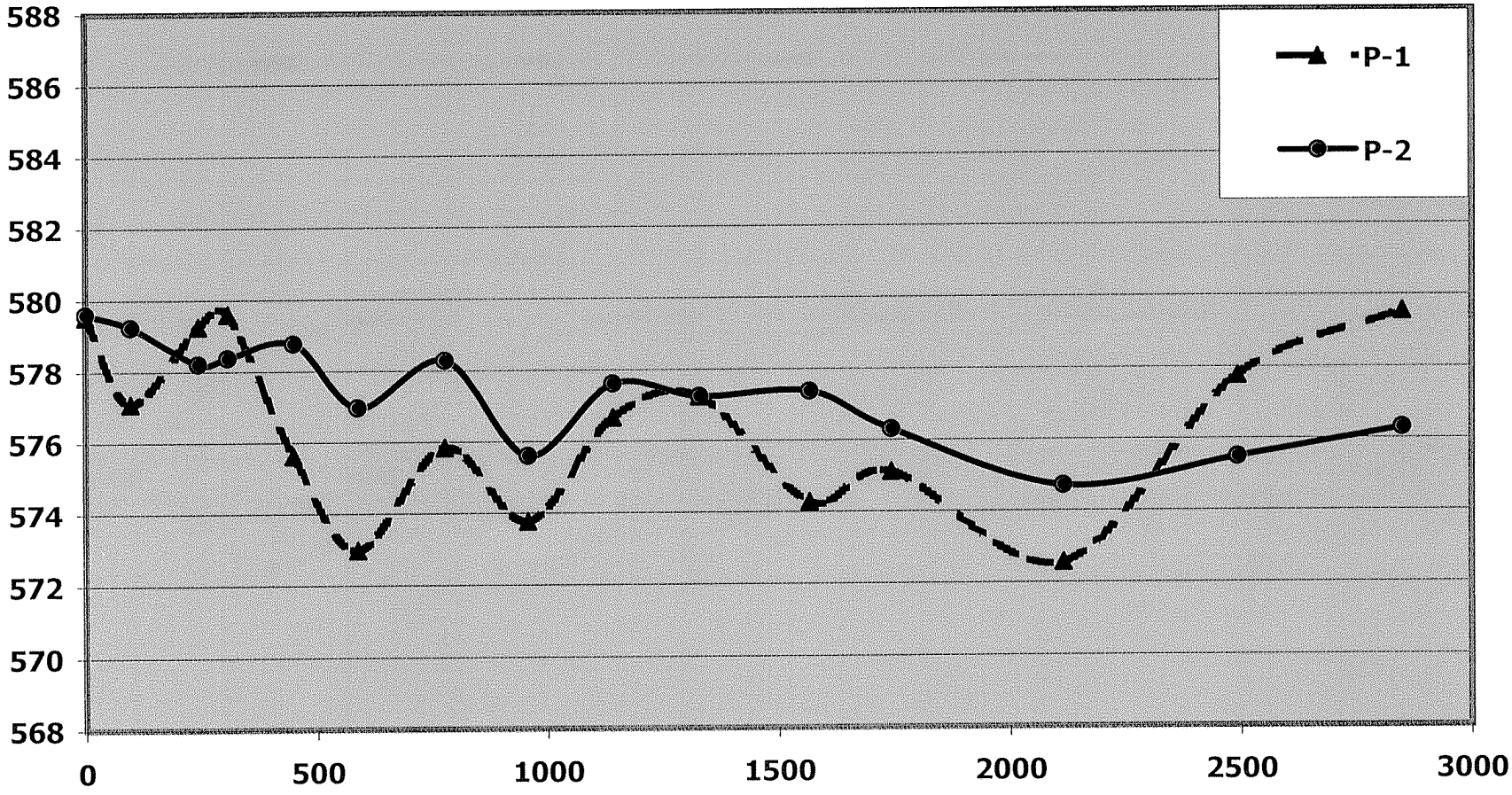
4/12/2005	PIEZOMETER	elev ft-ms	Mon well
579.55	P-1	580.13	URS-14I
576.29	P-2	575.73	URS-14D
578.22	P-3	575.55	URS-9I
573.72	P-4	575.58	URS-9D
564.90	SP-1	577.03	85-5R
579.26	P-5	575.24	URS-5D
575.24	P-6	575.38	85-7R
573.95	P-7	575.32	URS-7D
579.63	P-8	576.92	88-12C
		576.13	88-12D

Piezometer and Well Location

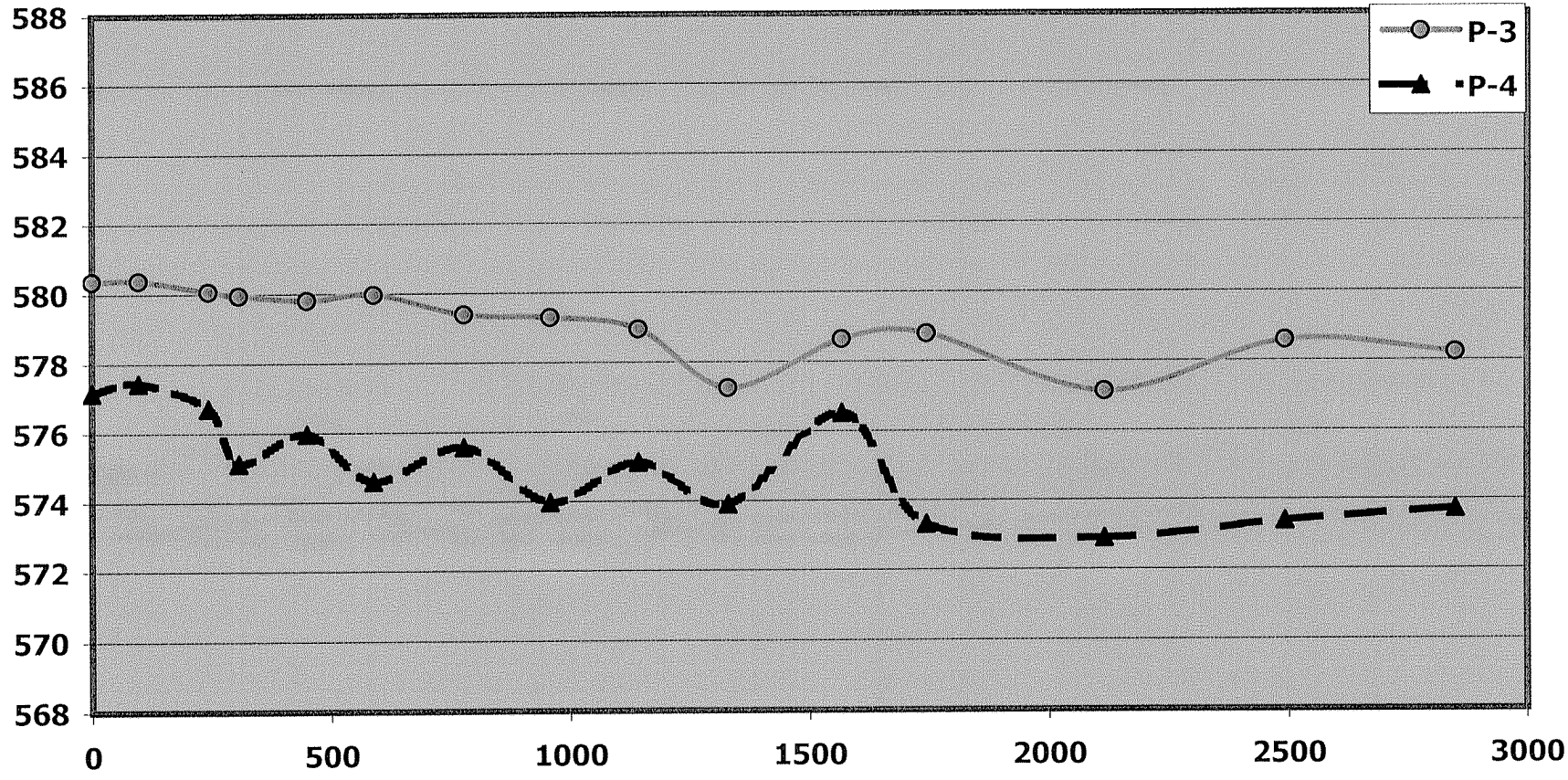
200 0 200

SCALE IN FEET

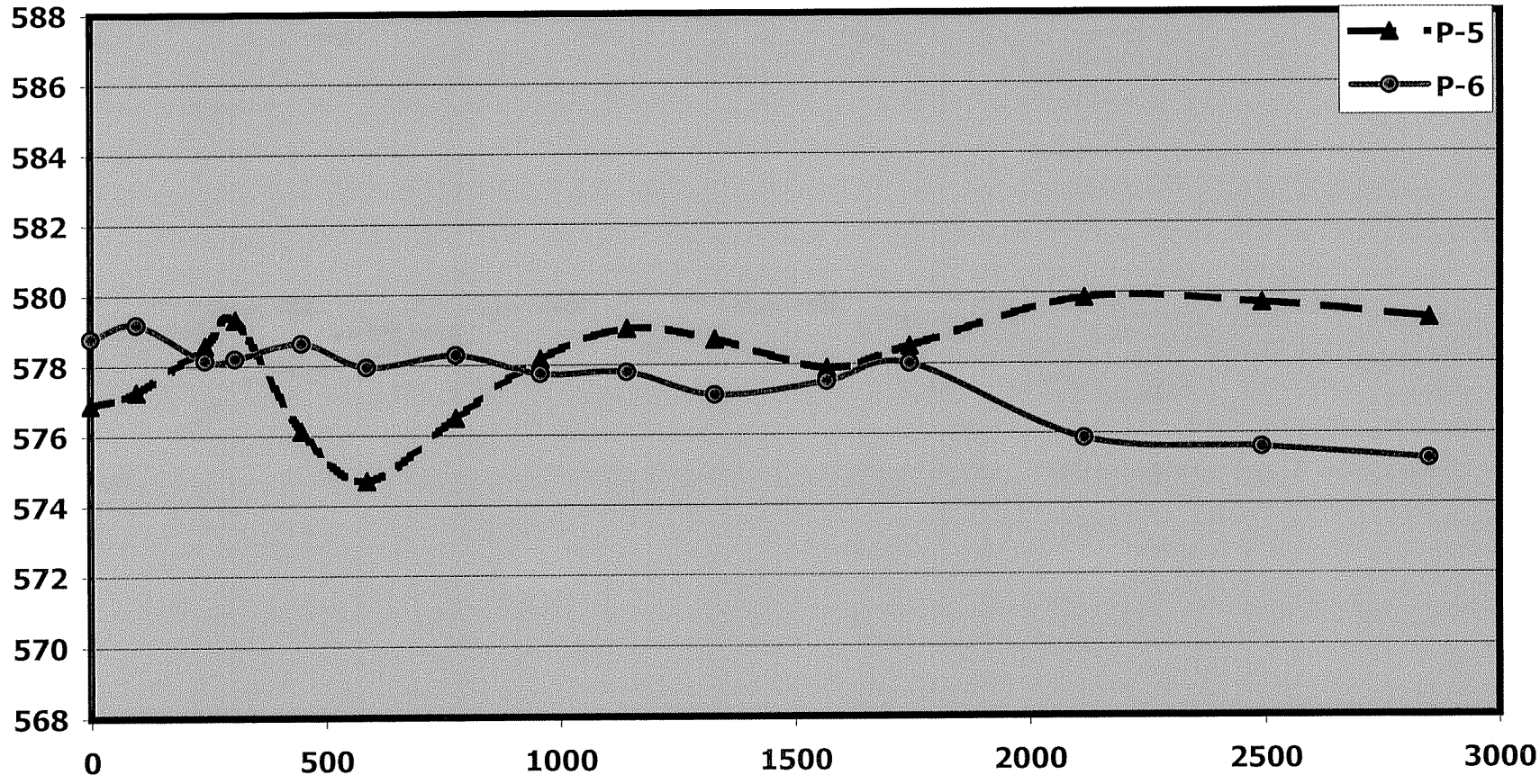
FRONTIER CHEMICAL - PENDLETON SITE
EASTERN PORTION OF CAPPED AREA
REPORT #13



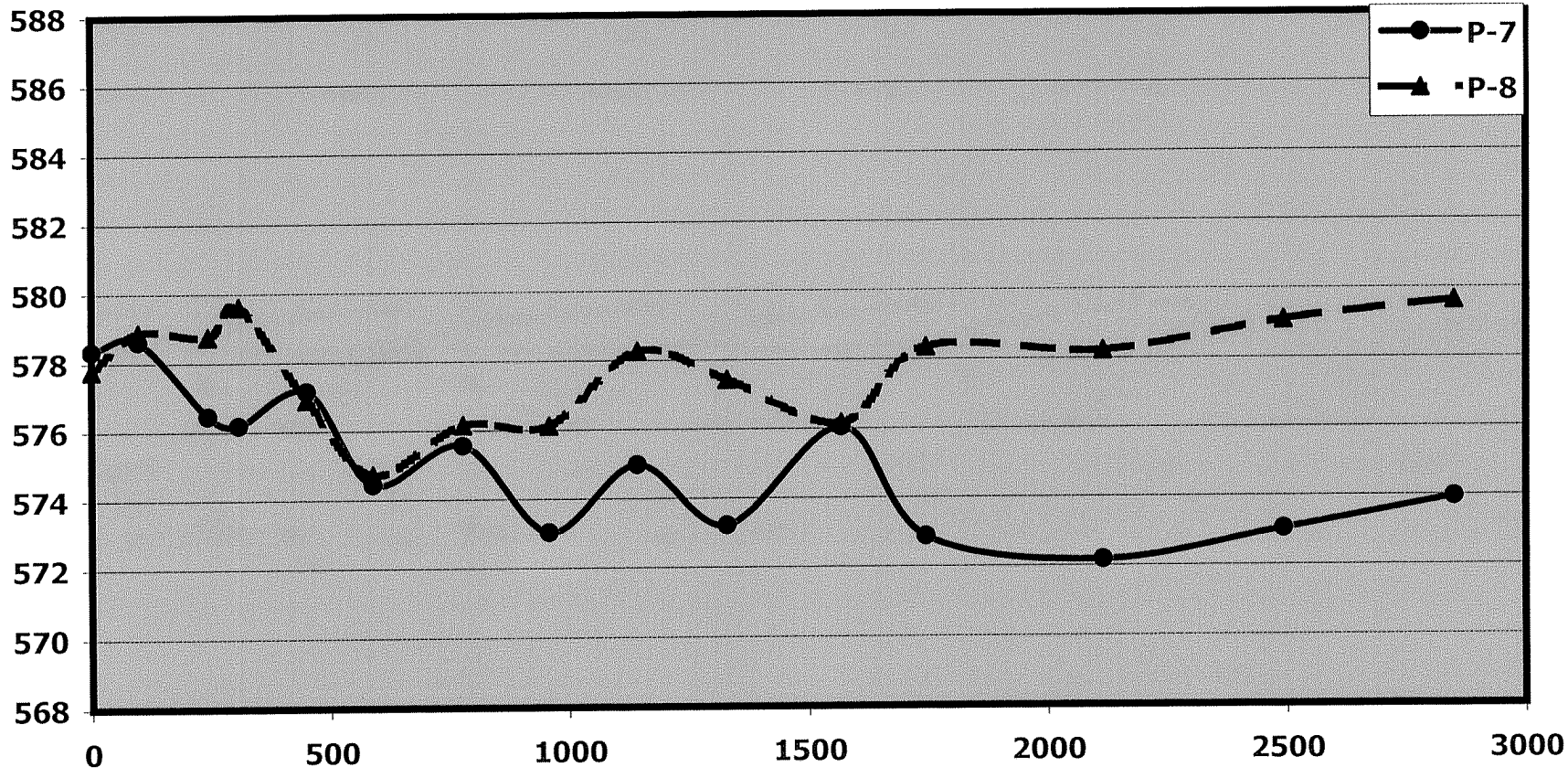
ATTACHMENT H - CHART 2
FRONTIER CHEMICAL - PENDLETON SITE
CENTER OF CAPPED AREA AND ADJACENT TO QUARRY LAKE
REPORT #13



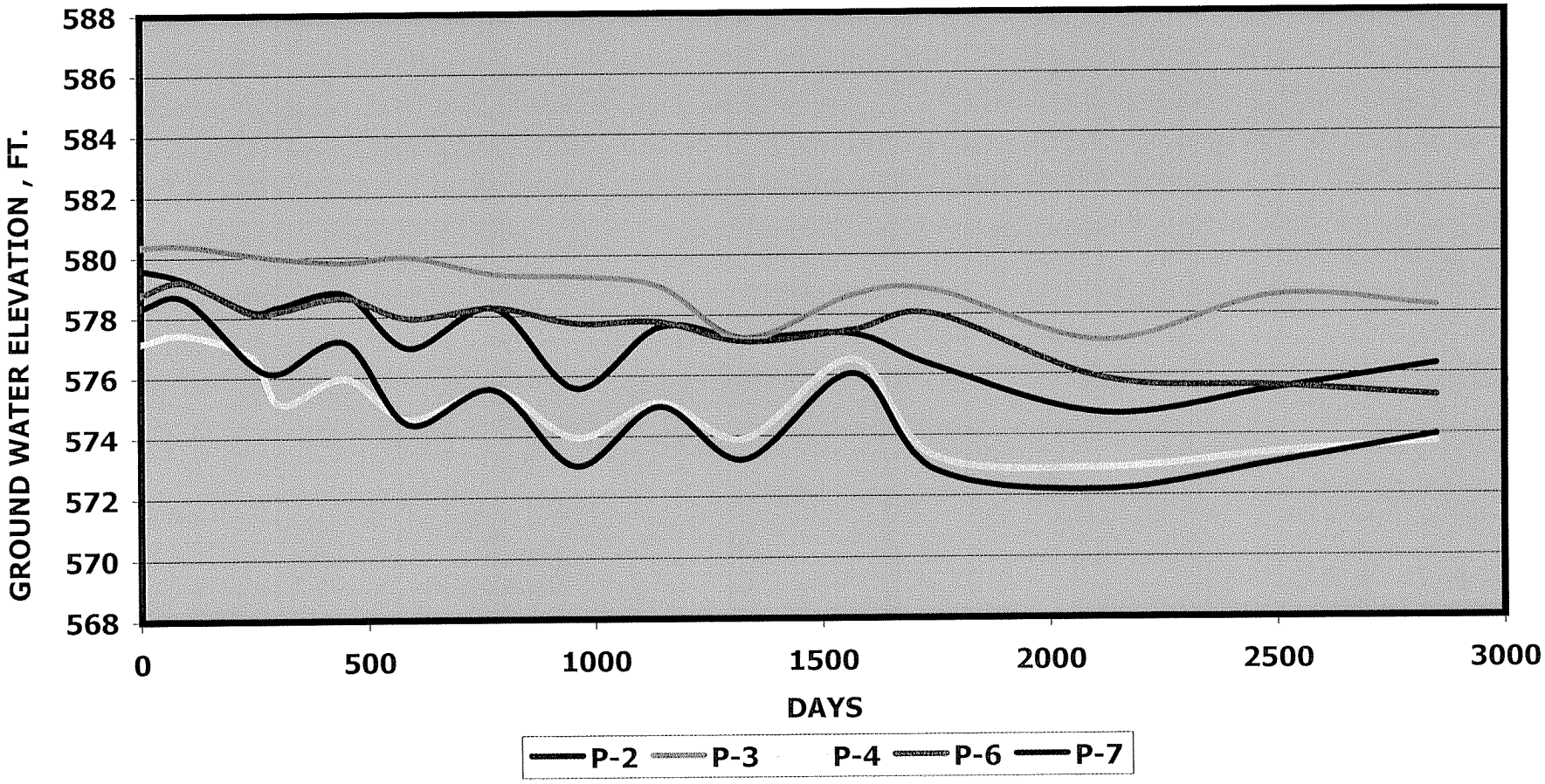
ATTACHMENT H - CHART 3
FRONTIER CHEMICAL - PENDLETON SITE
SOUTHERN PORTION OF CAPPED AREA
REPORT #13



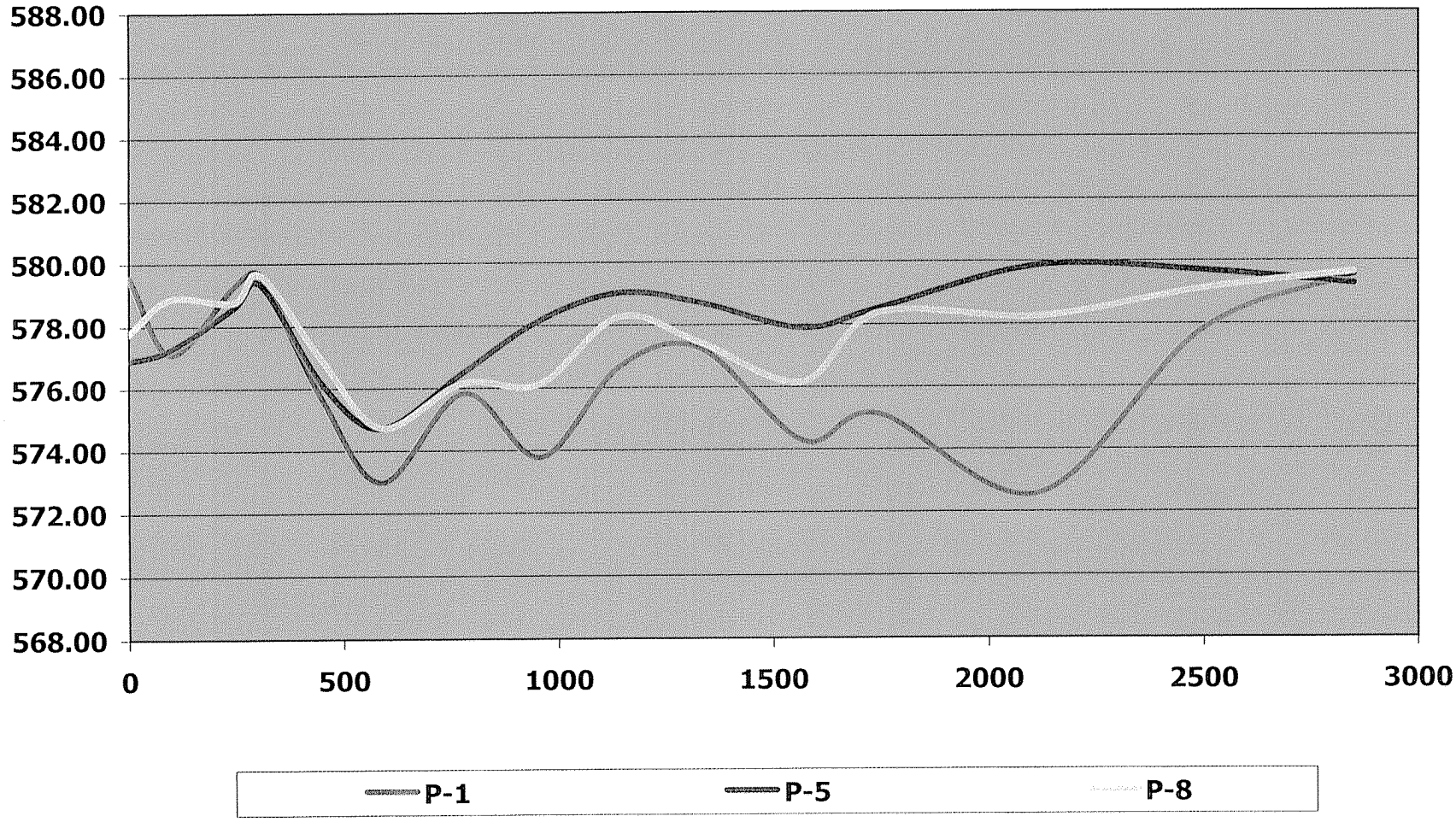
ATTACHMENT H - CHART 4
FRONTIER CHEMICAL - PENDLETON SITE
NORTHERN PORTION OF CAPPED AREA
REPORT #13



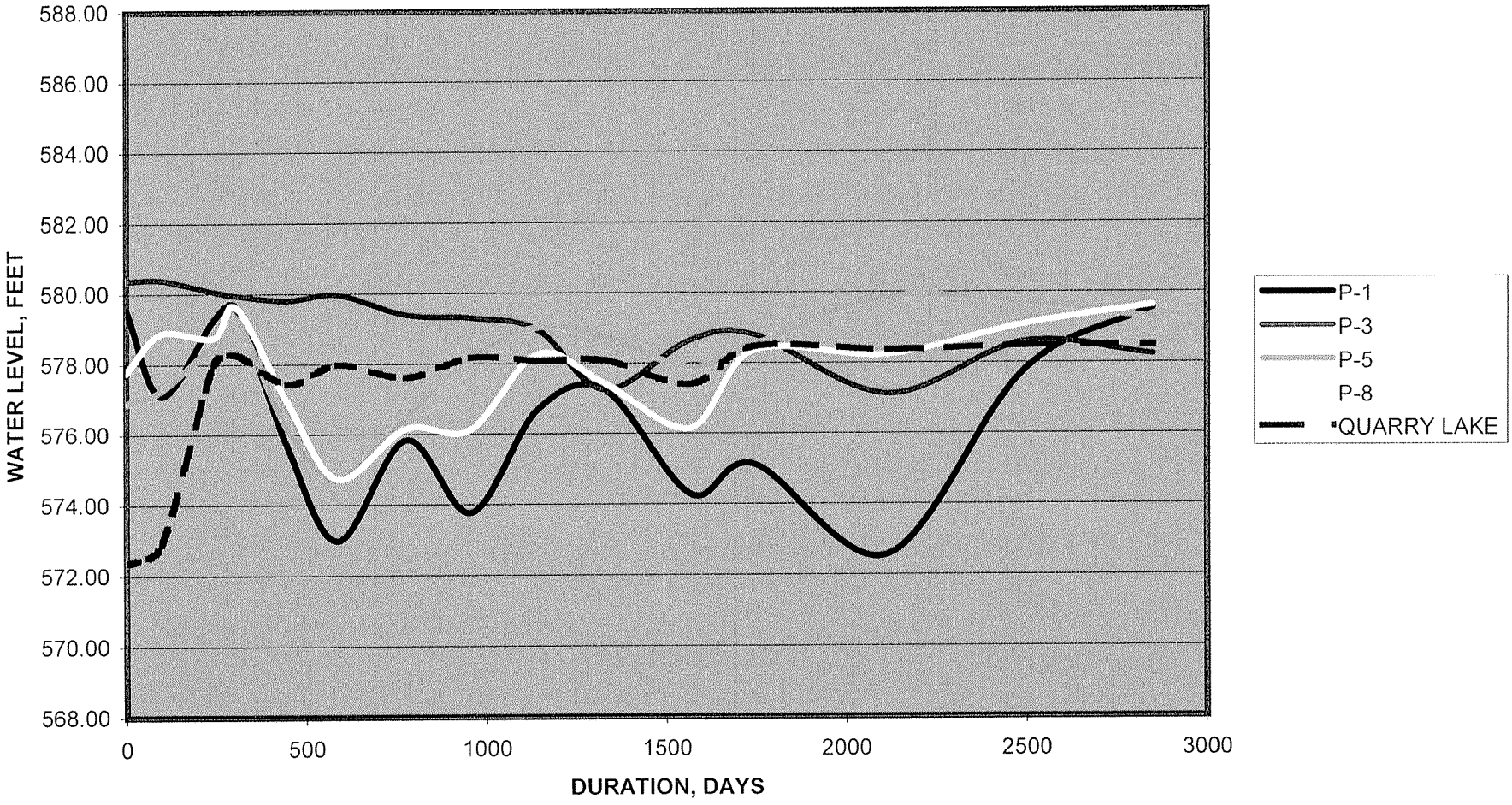
ATTACHMENT H - CHART 5
FRONTIER CHEMICAL - PENDLETON SITE
PIEZOMETERS - INSIDE CAPPED AREA
REPORT #12



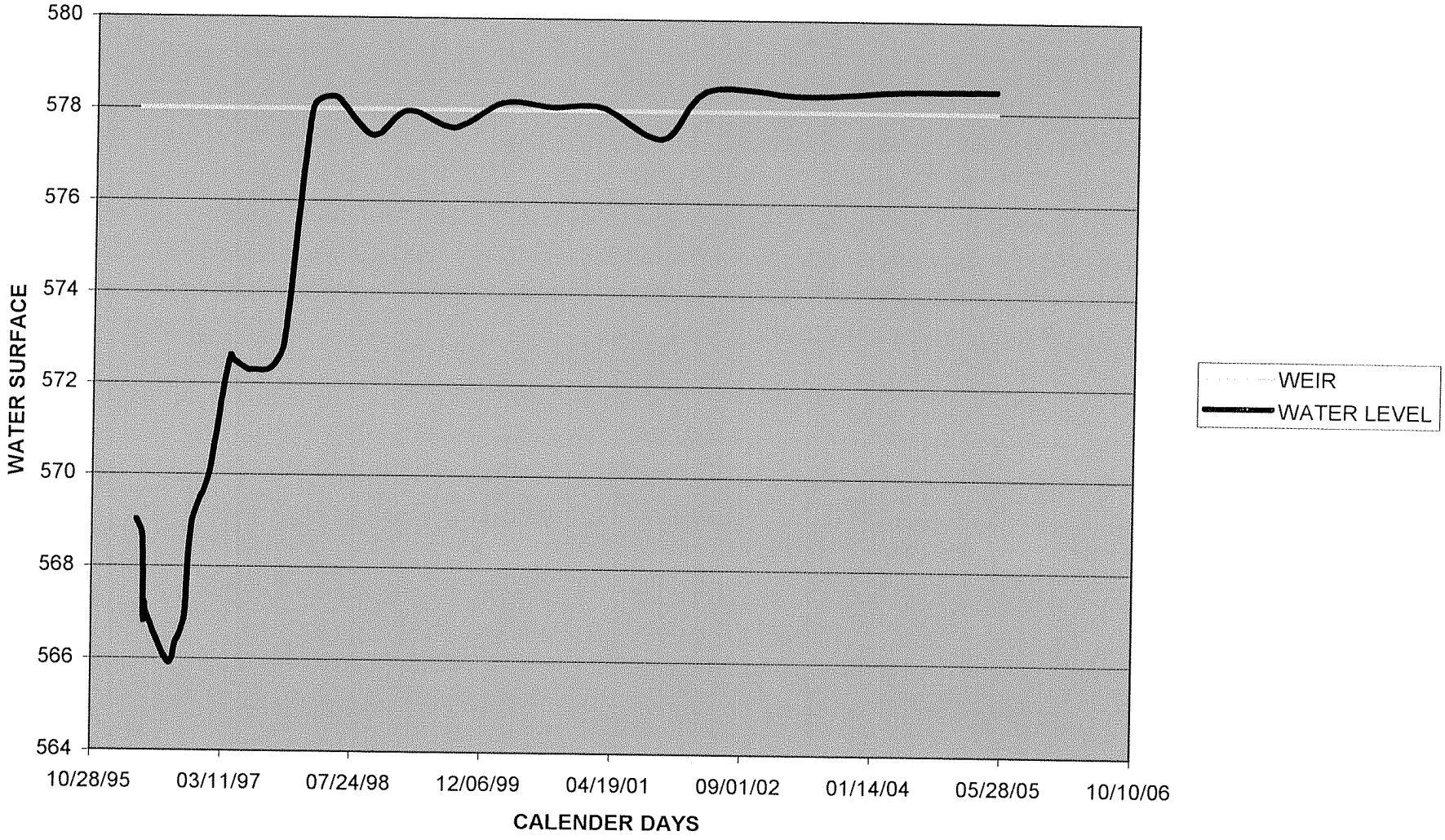
ATTACHMENT H - CHART 6
FRONTIER CHEMICAL - PENDLETON SITE
PIEZOMETERS - OUTSIDE CAPPED AREA
REPORT #12



ATTACHMENT H - FIGURE 7
FRONTIER CHEMICAL - PENDLETON SITE
GROUND WATER GRADIENT
REPORT #13



QUARRY LAKE
WATER LEVEL VS. TIME



Attachment I

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/14/05		
Site Name	Frontier Chemical	Weather	Sunny 60
Location	Pendleton, New York	Well #	URS-14I
Project No.	E-864	Evacuation Method	Peristaltic Pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	30.85
Depth to Water*	1.01
Length of Water Column	29.84
Volume of Water in Well	4.86 Gal.(s)
3X Volume of Water in Well	14.59 Gal.(s)

Water Volume/Ft. For:

__X__ 2" Diameter Well = 0.163 X LWC

____ 4" Diameter Well = 0.653 x LWC

____ 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 15 gals.

Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	11.5	8.3	227	3.8
	5	10.6	8.63	233	5.3
	10	10.5	8.58	239	5.8
	15	10.2	8.69	241	5.8
					2.3

Water Sample

Time Collected: 1210

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	None	Odor	None
Turbidity (> 100 NTU)	3.8	Turbidity (>100 NTU)	2.3
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/14/05		
Site Name	Frontier Chemical	Weather	Sunny 45
Location	Pendleton, New York	Well #	URS-14D
Project No.	E-864	Evacuation Method	Peristaltic Pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

		Water Volume/Ft. For:
Depth of Well*	41.35 Ft.	
Depth to Water*	4.98 Ft.	X 2" Diameter Well = 0.163 X LWC
Length of Water Column	36.37 Ft.	____ 4" Diameter Well = 0.653 x LWC
Volume of Water in Well	5.93 Gal.(s)	____ 6" Diameter Well = 1.469 X LWC
3X Volume of Water in Well	17.8 Gal.(s)	Volume removed before sampling 18 gals.
		Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	10.3	9.02	513	5.6
	6	11.2	8.29	1242	1.9
	6	11.7	7.98	1321	6.9
	6	11.6	8.20	1328	1.4

Water Sample

Time Collected: 1030

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	Sulfury	Odor	Sulfur smell
Turbidity (> 100 NTU)	5.6	Turbidity (>100 NTU)	1.4
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/13/05		
Site Name	Frontier Chemical	Weather	Sunny 60
Location	Pendleton, New York	Well #	URS-9I
Project No.	E-864	Evacuation Method	Teflon Bailer
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	45.75 Ft.
Depth to Water*	6.13 Ft.
Length of Water Column	39.62 Ft.
Volume of Water in Well	6.45 Gal.(s)
3X Volume of Water in Well	19.37 Gal.(s)

Water Volume/Ft. For:

__X__ 2" Diameter Well = 0.163 X LWC

____ 4" Diameter Well = 0.653 x LWC

____ 6" Diameter Well = 1.469 X LWC

Volume removed before sampling 21 gals.

Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	8.7	9.1	792 ms/cm	54.2
	7	9.4	9.0	921	56.2
	14	10.7	7.88	784	14
	21	10.0	7.65	776	14.7
		10.8	7.69	795	16.6

Water Sample

Time Collected: 1404

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Orange	Color	Clear
Odor	N/A	Odor	N/A
Turbidity (> 100 NTU)	No	Turbidity (>100 NTU)	16.5
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Also took field duplicate samples labeled "X-1"

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/13/05		
Site Name	Frontier Chemical	Weather	Sunny 50
Location	Pendleton, New York	Well #	URS-9D
Project No.	E-864	Evacuation Method	Peristaltic pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	50.65 Ft.
Depth to Water*	5.22 Ft.
Length of Water Column	45.43 Ft.
Volume of Water in Well	7.4 Gal.(s)
3X Volume of Water in Well	22 Gal.(s)

Water Volume/Ft. For:
- X 2" Diameter Well = 0.163 X LWC
- ____ 4" Diameter Well = 0.653 x LWC
- ____ 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 2421 gals.
Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	10.7	8.01	1474	3.1
	8	10.6	7.92	1421	2.1
	8	11.2	7.77	1158	2.6
	8	11.9	7.74	1134	0.4

Water Sample

Time Collected: 1420

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	N/A	Odor	N/A
Turbidity (> 100 NTU)	3.1	Turbidity (>100 NTU)	0.4
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/14/05		
Site Name	Frontier Chemical	Weather	Sunny 60
Location	Pendleton, New York	Well #	URS-7D
Project No.	E-864	Evacuation Method	Peristaltic Pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

		Water Volume/Ft. For:
Depth of Well*	39.57 Ft	
Depth to Water*	4.03 Ft	X 2" Diameter Well = 0.163 X LWC
Length of Water Column	35.54 Ft	4" Diameter Well = 0.653 x LWC
Volume of Water in Well	5.79 Gal.(s)	6" Diameter Well = 1.469 X LWC
3X Volume of Water in Well	17.37 Gal.(s)	Volume removed before sampling 18 gals.
		Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	11.9	7.46	1489	3.3
	6	11.4	7.49	1894	23.7
	6	11.5	7.53	1899	29.6
	6	11.3	7.61	1884	14.2

Water Sample

Time Collected: 1350

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Black	Color	Clear
Odor	Organic	Odor	Slight
Turbidity (> 100 NTU)	No	Turbidity (>100 NTU)	14.2
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/13/05		
Site Name	Frontier Chemical	Weather	Sunny 60
Location	Pendleton, New York	Well #	URS-5D
Project No.	E-864	Evacuation Method	Teflon Bailer
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	49.60 Ft.	Water Volume/Ft. For:
Depth to Water*	5.36 Ft.	X 2" Diameter Well = 0.163 X LWC
Length of Water Column	44.24 Ft.	4" Diameter Well = 0.653 x LWC
Volume of Water in Well	7.2 Gal.(s)	6" Diameter Well = 1.469 X LWC
3X Volume of Water in Well	21.6 Gal.(s)	Volume removed before sampling: 22 gals.
		Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	8.8	9.40	2.06 ms/cm	13.8
	2	10.9	8.72	2.17	48.9
	14	11.2	8.51	2.41	30.6
	22	11.4	8.42	2.37	22.0

Water Sample

Time Collected: 1540

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	N/A	Odor	N/A
Turbidity (> 100 NTU)	13.8	Turbidity (>100 NTU)	22
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/13/05		
Site Name	Frontier Chemical	Weather	Sunny 50
Location	Pendleton, New York	Well #	88-12D
Project No.	E-864	Evacuation Method	Peristaltic pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	50.92 Ft.
Depth to Water*	6.74 Ft.
Length of Water Column	44.18 Ft.
Volume of Water in Well	7.2 Gal.(s)
3X Volume of Water in Well	22 Gal.(s)

Water Volume/Ft. For:
- X 2" Diameter Well = 0.163 X LWC
- ____ 4" Diameter Well = 0.653 x LWC
- ____ 6" Diameter Well = 1.469 X LWC

Volume removed before sampling: 23 gals.
Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings	Turbidity Readings Ntu
Initial	-	8.4	7.95	13.8 ms/cm	3
	7.25	9.7	7.79	5.17	3
	14.5	10.2	7.80	4,85	1.7
	22	10.4	7.81	4.76	1.8

Water Sample

Time Collected: 1420

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Clear	Color	Clear
Odor	N/A	Odor	N/A
Turbidity (> 100 NTU)	3.0	Turbidity (>100 NTU)	01.8
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/13/05		
Site Name	Frontier Chemical	Weather	Sunny 45
Location	Pendleton, New York	Well #	88-12C
Project No.	E-864	Evacuation Method	Peristaltic Pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	31.04 Ft.	Water Volume/Ft. For:
Depth to Water*	6.2 Ft.	X 2" Diameter Well = 0.163 X LWC
Length of Water Column	24.84 Ft.	4" Diameter Well = 0.653 x LWC
Volume of Water in Well	4.04 Gal.(s)	6" Diameter Well = 1.469 X LWC
3X Volume of Water in Well	12.14 Gal.(s)	Volume removed before sampling: 13 gals.
		Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	10.4	8.35	806	99
	4	10.2	8.26	949	99
	8	10.3	8.20	992	19.5
	13	10.4	8.19	987	41.2
					39.2

Water Sample

Time Collected: 1230

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Silty/brown	Color	Clear
Odor	No	Odor	No
Turbidity (> 100 NTU)	99	Turbidity (>100 NTU)	39.2
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Also took field duplicate samples labeled "X-1"

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/14/05		
Site Name	Frontier Chemical	Weather	Sunny 60
Location	Pendleton, New York	Well #	85-7R
Project No.	E-864	Evacuation Method	Peristaltic Pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	27.50 Ft	Water Volume/Ft. For:
Depth to Water*	2.52 Ft	X 2" Diameter Well = 0.163 X LWC
Length of Water Column	24.98 Ft	4" Diameter Well = 0.653 x LWC
Volume of Water in Well	4.07 Gal.(s)	6" Diameter Well = 1.469 X LWC
3X Volume of Water in Well	12.2 Gal.(s)	Volume removed before sampling: 14 gals.
		Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	10.5	9.38	535	>50
	4	11.7	8.70	1474	>50
	4	11.2	8.10	1488	>50
	5	11.5	7.80	1571	>50

Water Sample

Time Collected: 1330

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Cloudy	Color	Cloudy
Odor	none	Odor	None
Turbidity (> 100 NTU)	Yes	Turbidity (>100 NTU)	Filtered
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES:

Field Filtered due to high turbidity.

Sevenson Services, Inc. Environmental

Standard Ground Water Sampling Log

Date	4/13/05		
Site Name	Frontier Chemical	Weather	Sunny 60
Location	Pendleton, New York	Well #	85-5R
Project No.	E-864	Evacuation Method	Peristaltic Pump w/ dedicated tubing
Personnel	Michael Walker, Chris Jones	Sampling Method	Low Flow

Well Information

Depth of Well*	37.81 Ft.	Water Volume/Ft. For:
Depth to Water*	3.81 Ft.	X 2" Diameter Well = 0.163 X LWC
Length of Water Column	34.00 Ft.	4" Diameter Well = 0.653 x LWC
Volume of Water in Well	5.5 Gal.(s)	6" Diameter Well = 1.469 X LWC
3X Volume of Water in Well	16.6 Gal.(s)	Volume removed before sampling: 17 gals.
		Did well go dry? No

* Measurements taken from: X☐ Well Casing ☐ Protective Casing ☐ Other (specify)

Instrument Calibration:

pH Buffer Readings		Conductivity Standard Readings	
4.0 Standard	4.07	84 S Standard	
7.0 Standard	7.01	1413 S Standard	
10.0 Standard		447 Standard	449

Water Parameters

	Gallons Removed	Temperature Readings	PH Readings	Conductivity Readings uS/cm	Turbidity Readings Ntu
Initial	-	8.7	7.56	698	84.5
	6	10.4	7.63	1023	48.5
	12	10.9	7.45	1041	99.9
	17	11.4	7.25	1082	99.9

Water Sample

Time Collected: 1602

Physical Appearance at Start		Physical Appearance at Sampling	
Color	Cloudy	Color	Cloudy/ silty
Odor	No	Odor	No
Turbidity (> 100 NTU)	99.9	Turbidity (>100 NTU)	Field Filtered
Sheen/Free Product	No	Sheen/Free Product	No

Samples Collected:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
40 ml	Glass	3	No	1:1 HCL	
Liter	Plastic	1	Not if < 50 ntu	HNO3	
Pint	Plastic	1	No	NaOH	

NOTES: Final samples were field filtered to .45 microns

Attachment J

Frontier Pendleton Site Groundwater Analytical Data
April, 2005 Annual Sampling

ClientSampID	CollectionDate	Analyte	Result	Units	PQL	Qual	NYS Class WQ
PSGW-85-5R-041305	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	1,1,1-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	1,1,2,2-Tetrachloroethane	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	1,1,2-Trichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	1,1-Dichloroethane	**0.1**	µg/L	0.5	J	5
PSGW-85-5R-041305	4/13/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-88-12C-041305	4/13/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	1,1-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	1,1-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		

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ClientSampID	CollectionDate	Analyte	Result	Units	PQL	Qual	NYS Class WQ
PSGW-URS-9I-041305	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	1,2-Dichloroethane	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	1,2-Dichloropropane	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	2-Butanone	< 10	µg/L	10		n
PSGW-88-12C-041305	4/13/2005	2-Butanone	< 10	µg/L	10		
PSGW-88-12D-041305	4/13/2005	2-Butanone	< 10	µg/L	10		
PSGW-URS-14D-041405	4/14/2005	2-Butanone	< 10	µg/L	10		
PSGW-URS-14I-041405	4/14/2005	2-Butanone	< 10	µg/L	10		
PSGW-URS-5D-041305	4/13/2005	2-Butanone	< 10	µg/L	10		
PSGW-URS-7D-041405	4/14/2005	2-Butanone	< 10	µg/L	10		
PSGW-URS-7R-041405	4/14/2005	2-Butanone	< 10	µg/L	10		
PSGW-URS-9D-041305	4/13/2005	2-Butanone	< 10	µg/L	10		
PSGW-URS-9I-041305	4/13/2005	2-Butanone	< 10	µg/L	10		
PSGW-X-1-DUP	4/13/2005	2-Butanone	< 10	µg/L	10		
Trip Blank	4/14/2005	2-Butanone	< 10	µg/L	10		
Trip Blank	4/13/2005	2-Butanone	< 10	µg/L	10		
PSGW-85-5R-041305	4/13/2005	2-Hexanone	< 5.0	µg/L	5		n
PSGW-88-12C-041305	4/13/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-88-12D-041305	4/13/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-14D-041405	4/14/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-14I-041405	4/14/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-5D-041305	4/13/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-7D-041405	4/14/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-7R-041405	4/14/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-9D-041305	4/13/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-9I-041305	4/13/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-X-1-DUP	4/13/2005	2-Hexanone	< 5.0	µg/L	5		
Trip Blank	4/14/2005	2-Hexanone	< 5.0	µg/L	5		
Trip Blank	4/13/2005	2-Hexanone	< 5.0	µg/L	5		
PSGW-URS-5D-041305	4/13/2005	4-Bromofluorobenzene	8.4	µg/L	0.1		n
PSGW-88-12D-041305	4/13/2005	4-Bromofluorobenzene	8.2	µg/L	0.1		
PSGW-85-5R-041305	4/13/2005	4-Bromofluorobenzene	8.1	µg/L	0.1		
PSGW-88-12C-041305	4/13/2005	4-Bromofluorobenzene	8.1	µg/L	0.1		
PSGW-X-1-DUP	4/13/2005	4-Bromofluorobenzene	8.1	µg/L	0.1		
PSGW-URS-14I-041405	4/14/2005	4-Bromofluorobenzene	8.0	µg/L	0.1		
PSGW-URS-7D-041405	4/14/2005	4-Bromofluorobenzene	8.0	µg/L	0.1		
PSGW-URS-7R-041405	4/14/2005	4-Bromofluorobenzene	8.0	µg/L	0.1		
PSGW-URS-9D-041305	4/13/2005	4-Bromofluorobenzene	8.0	µg/L	0.1		
PSGW-URS-9I-041305	4/13/2005	4-Bromofluorobenzene	8.0	µg/L	0.1		
Trip Blank	4/13/2005	4-Bromofluorobenzene	8.0	µg/L	0.1		
PSGW-URS-14D-041405	4/14/2005	4-Bromofluorobenzene	7.9	µg/L	0.1		
Trip Blank	4/14/2005	4-Bromofluorobenzene	7.7	µg/L	0.1		
PSGW-85-5R-041305	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		n
PSGW-88-12C-041305	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-88-12D-041305	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-URS-14D-041405	4/14/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-URS-14I-041405	4/14/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-URS-5D-041305	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-URS-7D-041405	4/14/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-URS-7R-041405	4/14/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-URS-9D-041305	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-URS-9I-041305	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-X-1-DUP	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
Trip Blank	4/14/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
Trip Blank	4/13/2005	4-Methyl-2-pentanone	< 5.0	µg/L	5		
PSGW-85-5R-041305	4/13/2005	Acetone	< 10	µg/L	10		n
PSGW-88-12C-041305	4/13/2005	Acetone	< 10	µg/L	10		
PSGW-88-12D-041305	4/13/2005	Acetone	< 10	µg/L	10		
PSGW-URS-14D-041405	4/14/2005	Acetone	< 10	µg/L	10		

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PSGW-URS-14I-041405	4/14/2005	Acetone	< 10	µg/L	10		
PSGW-URS-5D-041305	4/13/2005	Acetone	< 10	µg/L	10		
PSGW-URS-7D-041405	4/14/2005	Acetone	< 10	µg/L	10		
PSGW-URS-7R-041405	4/14/2005	Acetone	< 10	µg/L	10		
PSGW-URS-9D-041305	4/13/2005	Acetone	< 10	µg/L	10		
PSGW-URS-9I-041305	4/13/2005	Acetone	< 10	µg/L	10		
PSGW-X-1-DUP	4/13/2005	Acetone	< 10	µg/L	10		
Trip Blank	4/14/2005	Acetone	< 10	µg/L	10		
Trip Blank	4/13/2005	Acetone	< 10	µg/L	10		
PSGW-88-12C-041305	4/13/2005	Aluminum	**0.76**	mg/L	0.1		n
PSGW-URS-9I-041305	4/13/2005	Aluminum	**0.15**	mg/L	0.1		
PSGW-X-1-DUP	4/13/2005	Aluminum	**0.11**	mg/L	0.1		
PSGW-URS-14I-041405	4/14/2005	Aluminum	**0.08**	mg/L	0.1	J	
PSGW-URS-9D-041305	4/13/2005	Aluminum	**0.08**	mg/L	0.1	J	
PSGW-URS-5D-041305	4/13/2005	Aluminum	**0.05**	mg/L	0.1	J	
PSGW-85-5R-041305	4/13/2005	Aluminum	**0.04**	mg/L	0.1	J	
PSGW-88-12D-041305	4/13/2005	Aluminum	**0.04**	mg/L	0.1	J	
PSGW-URS-14D-041405	4/14/2005	Aluminum	**0.02**	mg/L	0.1	J	
PSGW-URS-7R-041405	4/14/2005	Aluminum	**0.02**	mg/L	0.1	J	
PSGW-URS-7D-041405	4/14/2005	Aluminum	< 0.10	mg/L	0.1		
PSGW-85-5R-041305	4/13/2005	Antimony	< 0.0050	mg/L	0.005		3
PSGW-88-12C-041305	4/13/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-88-12D-041305	4/13/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-URS-14D-041405	4/14/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-URS-14I-041405	4/14/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-URS-5D-041305	4/13/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-URS-7D-041405	4/14/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-URS-7R-041405	4/14/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-URS-9D-041305	4/13/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-URS-9I-041305	4/13/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-X-1-DUP	4/13/2005	Antimony	< 0.0050	mg/L	0.005		
PSGW-88-12C-041305	4/13/2005	Arsenic	**0.013**	mg/L	0.005		25
PSGW-85-5R-041305	4/13/2005	Arsenic	**0.004**	mg/L	0.005	J	
PSGW-URS-14I-041405	4/14/2005	Arsenic	**0.003**	mg/L	0.005	J	
PSGW-88-12D-041305	4/13/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-URS-14D-041405	4/14/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-URS-5D-041305	4/13/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-URS-7D-041405	4/14/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-URS-7R-041405	4/14/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-URS-9D-041305	4/13/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-URS-9I-041305	4/13/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-X-1-DUP	4/13/2005	Arsenic	< 0.0050	mg/L	0.005		
PSGW-URS-7R-041405	4/14/2005	Barium	**0.13**	mg/L	0.02		1000
PSGW-URS-14D-041405	4/14/2005	Barium	**0.074**	mg/L	0.02		
PSGW-85-5R-041305	4/13/2005	Barium	**0.049**	mg/L	0.02		
PSGW-URS-14I-041405	4/14/2005	Barium	**0.033**	mg/L	0.02		
PSGW-URS-5D-041305	4/13/2005	Barium	**0.030**	mg/L	0.02		
PSGW-88-12C-041305	4/13/2005	Barium	**0.02**	mg/L	0.02	J	
PSGW-URS-7D-041405	4/14/2005	Barium	**0.02**	mg/L	0.02	J	
PSGW-URS-9I-041305	4/13/2005	Barium	**0.02**	mg/L	0.02	J	
PSGW-URS-9D-041305	4/13/2005	Barium	**0.01**	mg/L	0.02	J	
PSGW-X-1-DUP	4/13/2005	Barium	**0.01**	mg/L	0.02	J	
PSGW-88-12D-041305	4/13/2005	Barium	**0.002**	mg/L	0.02	J	
PSGW-88-12D-041305	4/13/2005	Benzene	**0.1**	µg/L	0.5	J	1
PSGW-85-5R-041305	4/13/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-88-12C-041305	4/13/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Benzene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Benzene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Benzene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Beryllium	**0.0001**	mg/L	0.003	J	n
PSGW-URS-9I-041305	4/13/2005	Beryllium	**0.0001**	mg/L	0.003	J	
PSGW-85-5R-041305	4/13/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-88-12C-041305	4/13/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-88-12D-041305	4/13/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-URS-14D-041405	4/14/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-URS-14I-041405	4/14/2005	Beryllium	< 0.0030	mg/L	0.003		

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PSGW-URS-5D-041305	4/13/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-URS-7D-041405	4/14/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-URS-7R-041405	4/14/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-X-1-DUP	4/13/2005	Beryllium	< 0.0030	mg/L	0.003		
PSGW-85-5R-041305	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Bromodichloromethane	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Bromoform	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Bromoform	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Bromoform	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Bromoform	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Bromomethane	< 1.0	µg/L	1		n
PSGW-88-12C-041305	4/13/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-88-12D-041305	4/13/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-14D-041405	4/14/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-14I-041405	4/14/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-5D-041305	4/13/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-7D-041405	4/14/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-7R-041405	4/14/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-9D-041305	4/13/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-9I-041305	4/13/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-X-1-DUP	4/13/2005	Bromomethane	< 1.0	µg/L	1		
Trip Blank	4/14/2005	Bromomethane	< 1.0	µg/L	1		
Trip Blank	4/13/2005	Bromomethane	< 1.0	µg/L	1		
PSGW-URS-14I-041405	4/14/2005	Cadmium	**0.0010**	mg/L	0.001		5
PSGW-URS-9D-041305	4/13/2005	Cadmium	**0.0008**	mg/L	0.001	J	
PSGW-URS-9I-041305	4/13/2005	Cadmium	**0.0008**	mg/L	0.001	J	
PSGW-85-5R-041305	4/13/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-88-12C-041305	4/13/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-88-12D-041305	4/13/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-URS-14D-041405	4/14/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-URS-5D-041305	4/13/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-URS-7D-041405	4/14/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-URS-7R-041405	4/14/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-X-1-DUP	4/13/2005	Cadmium	< 0.0010	mg/L	0.001		
PSGW-88-12C-041305	4/13/2005	Calcium	**81**	mg/L	0.1		n
PSGW-88-12D-041305	4/13/2005	Calcium	**580**	mg/L	0.1		
PSGW-URS-5D-041305	4/13/2005	Calcium	**440**	mg/L	0.1		
PSGW-URS-7D-041405	4/14/2005	Calcium	**430**	mg/L	0.1		
PSGW-URS-7R-041405	4/14/2005	Calcium	**320**	mg/L	0.1		
PSGW-URS-14I-041405	4/14/2005	Calcium	**28**	mg/L	0.1		
PSGW-URS-14D-041405	4/14/2005	Calcium	**220**	mg/L	0.1		
PSGW-URS-9D-041305	4/13/2005	Calcium	**210**	mg/L	0.1		
PSGW-85-5R-041305	4/13/2005	Calcium	**160**	mg/L	0.1		
PSGW-X-1-DUP	4/13/2005	Calcium	**150**	mg/L	0.1		
PSGW-URS-9I-041305	4/13/2005	Calcium	**140**	mg/L	0.1		
PSGW-URS-14D-041405	4/14/2005	Carbon disulfide	**0.4**	µg/L	0.5	J	n
PSGW-URS-5D-041305	4/13/2005	Carbon disulfide	**0.4**	µg/L	0.5	J	
PSGW-88-12D-041305	4/13/2005	Carbon disulfide	**0.2**	µg/L	0.5	J	
PSGW-URS-9I-041305	4/13/2005	Carbon disulfide	**0.2**	µg/L	0.5	J	
PSGW-X-1-DUP	4/13/2005	Carbon disulfide	**0.2**	µg/L	0.5	J	
PSGW-URS-7D-041405	4/14/2005	Carbon disulfide	**0.1**	µg/L	0.5	J	
PSGW-85-5R-041305	4/13/2005	Carbon disulfide	< 0.50	µg/L	0.5		
PSGW-88-12C-041305	4/13/2005	Carbon disulfide	< 0.50	µg/L	0.5		

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PSGW-URS-14I-041405	4/14/2005	Carbon disulfide	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Carbon disulfide	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Carbon disulfide	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Carbon disulfide	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Carbon disulfide	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Carbon tetrachloride	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Chlorobenzene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Chlorobenzene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Chloroethane	< 1.0	µg/L	1		n
PSGW-88-12C-041305	4/13/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-88-12D-041305	4/13/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-URS-14D-041405	4/14/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-URS-14I-041405	4/14/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-URS-5D-041305	4/13/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-URS-7D-041405	4/14/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-URS-7R-041405	4/14/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-URS-9D-041305	4/13/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-URS-9I-041305	4/13/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-X-1-DUP	4/13/2005	Chloroethane	< 1.0	µg/L	1		
Trip Blank	4/14/2005	Chloroethane	< 1.0	µg/L	1		
Trip Blank	4/13/2005	Chloroethane	< 1.0	µg/L	1		
PSGW-85-5R-041305	4/13/2005	Chloroform	< 0.50	µg/L	0.5		7
PSGW-88-12C-041305	4/13/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Chloroform	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Chloroform	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Chloroform	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Chloromethane	< 1.0	µg/L	1		n
PSGW-88-12C-041305	4/13/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-88-12D-041305	4/13/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-14D-041405	4/14/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-14I-041405	4/14/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-5D-041305	4/13/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-7D-041405	4/14/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-7R-041405	4/14/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-9D-041305	4/13/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-9I-041305	4/13/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-X-1-DUP	4/13/2005	Chloromethane	< 1.0	µg/L	1		
Trip Blank	4/14/2005	Chloromethane	< 1.0	µg/L	1		
Trip Blank	4/13/2005	Chloromethane	< 1.0	µg/L	1		
PSGW-URS-9I-041305	4/13/2005	Chromium	**0.016**	mg/L	0.01		50
PSGW-88-12C-041305	4/13/2005	Chromium	**0.014**	mg/L	0.01		
PSGW-URS-9D-041305	4/13/2005	Chromium	**0.013**	mg/L	0.01		

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ClientSampID	CollectionDate	Analyte	Result	Units	PQL	Qual	NYS Class WQ
PSGW-URS-5D-041305	4/13/2005	Chromium	0.011	mg/L	0.01		
PSGW-X-1-DUP	4/13/2005	Chromium	0.011	mg/L	0.01		
PSGW-88-12D-041305	4/13/2005	Chromium	0.010	mg/L	0.01		
PSGW-URS-14I-041405	4/14/2005	Chromium	0.009	mg/L	0.01	J	
PSGW-85-5R-041305	4/13/2005	Chromium	0.008	mg/L	0.01	J	
PSGW-URS-14D-041405	4/14/2005	Chromium	0.007	mg/L	0.01	J	
PSGW-URS-7R-041405	4/14/2005	Chromium	0.007	mg/L	0.01	J	
PSGW-URS-7D-041405	4/14/2005	Chromium	0.006	mg/L	0.01	J	
PSGW-URS-9D-041305	4/13/2005	cis-1,2-Dichloroethene	0.2	µg/L	0.5	J	5
PSGW-85-5R-041305	4/13/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-88-12C-041305	4/13/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	cis-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	cis-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Cobalt	0.11	mg/L	0.025		n
PSGW-URS-9I-041305	4/13/2005	Cobalt	0.005	mg/L	0.025	J	
PSGW-URS-14I-041405	4/14/2005	Cobalt	0.004	mg/L	0.025	J	
PSGW-URS-9D-041305	4/13/2005	Cobalt	0.004	mg/L	0.025	J	
PSGW-88-12C-041305	4/13/2005	Cobalt	0.001	mg/L	0.025	J	
PSGW-85-5R-041305	4/13/2005	Cobalt	0.0008	mg/L	0.025	J	
PSGW-88-12D-041305	4/13/2005	Cobalt	< 0.025	mg/L	0.025		
PSGW-URS-14D-041405	4/14/2005	Cobalt	< 0.025	mg/L	0.025		
PSGW-URS-7D-041405	4/14/2005	Cobalt	< 0.025	mg/L	0.025		
PSGW-URS-7R-041405	4/14/2005	Cobalt	< 0.025	mg/L	0.025		
PSGW-X-1-DUP	4/13/2005	Cobalt	< 0.025	mg/L	0.025		
PSGW-URS-5D-041305	4/13/2005	Copper	0.006	mg/L	0.01	J	200
PSGW-85-5R-041305	4/13/2005	Copper	< 0.010	mg/L	0.01		
PSGW-88-12C-041305	4/13/2005	Copper	< 0.010	mg/L	0.01		
PSGW-88-12D-041305	4/13/2005	Copper	< 0.010	mg/L	0.01		
PSGW-URS-14D-041405	4/14/2005	Copper	< 0.010	mg/L	0.01		
PSGW-URS-14I-041405	4/14/2005	Copper	< 0.010	mg/L	0.01		
PSGW-URS-7D-041405	4/14/2005	Copper	< 0.010	mg/L	0.01		
PSGW-URS-7R-041405	4/14/2005	Copper	< 0.010	mg/L	0.01		
PSGW-URS-9D-041305	4/13/2005	Copper	< 0.010	mg/L	0.01		
PSGW-URS-9I-041305	4/13/2005	Copper	< 0.010	mg/L	0.01		
PSGW-X-1-DUP	4/13/2005	Copper	< 0.010	mg/L	0.01		
PSGW-88-12D-041305	4/13/2005	Cyanide, Total	0.004	mg/L	0.01	J	200
PSGW-85-5R-041305	4/13/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-88-12C-041305	4/13/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-URS-14D-041405	4/14/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-URS-14I-041405	4/14/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-URS-5D-041305	4/13/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-URS-7D-041405	4/14/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-URS-7R-041405	4/14/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-URS-9D-041305	4/13/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-URS-9I-041305	4/13/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-X-1-DUP	4/13/2005	Cyanide, Total	< 0.010	mg/L	0.01		
PSGW-85-5R-041305	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		

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PSGW-URS-7D-041405	4/14/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Dibromochloromethane	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Ethylbenzene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Ethylbenzene	< 0.50	µg/L	0.5		
PSGW-88-12C-041305	4/13/2005	Iron	**2.0**	mg/L	0.05		300
PSGW-85-5R-041305	4/13/2005	Iron	**1.7**	mg/L	0.05		
PSGW-URS-9I-041305	4/13/2005	Iron	**1.3**	mg/L	0.05		
PSGW-X-1-DUP	4/13/2005	Iron	**1.3**	mg/L	0.05		
PSGW-URS-5D-041305	4/13/2005	Iron	**0.65**	mg/L	0.05		
PSGW-URS-7R-041405	4/14/2005	Iron	**0.15**	mg/L	0.05		
PSGW-URS-14I-041405	4/14/2005	Iron	**0.10**	mg/L	0.05		
PSGW-URS-9D-041305	4/13/2005	Iron	**0.089**	mg/L	0.05		
PSGW-88-12D-041305	4/13/2005	Iron	**0.04**	mg/L	0.05	J	
PSGW-URS-7D-041405	4/14/2005	Iron	**0.04**	mg/L	0.05	J	
PSGW-URS-14D-041405	4/14/2005	Iron	**0.02**	mg/L	0.05	J	
PSGW-88-12D-041305	4/13/2005	Lead	**0.004**	mg/L	0.005	J	25
PSGW-URS-5D-041305	4/13/2005	Lead	**0.004**	mg/L	0.005	J	
PSGW-URS-7D-041405	4/14/2005	Lead	**0.003**	mg/L	0.005	J	
PSGW-88-12C-041305	4/13/2005	Lead	**0.002**	mg/L	0.005	J	
PSGW-URS-7R-041405	4/14/2005	Lead	**0.002**	mg/L	0.005	J	
PSGW-URS-9D-041305	4/13/2005	Lead	**0.002**	mg/L	0.005	J	
PSGW-85-5R-041305	4/13/2005	Lead	**0.001**	mg/L	0.005	J	
PSGW-URS-14D-041405	4/14/2005	Lead	**0.001**	mg/L	0.005	J	
PSGW-URS-9I-041305	4/13/2005	Lead	**0.0009**	mg/L	0.005	J	
PSGW-URS-14I-041405	4/14/2005	Lead	< 0.0050	mg/L	0.005		
PSGW-X-1-DUP	4/13/2005	Lead	< 0.0050	mg/L	0.005		
PSGW-URS-7R-041405	4/14/2005	Magnesium	**98**	mg/L	0.3		n
PSGW-URS-5D-041305	4/13/2005	Magnesium	**95**	mg/L	0.3		
PSGW-URS-14D-041405	4/14/2005	Magnesium	**69**	mg/L	0.3		
PSGW-X-1-DUP	4/13/2005	Magnesium	**67**	mg/L	0.3		
PSGW-URS-9D-041305	4/13/2005	Magnesium	**65**	mg/L	0.3		
PSGW-URS-9I-041305	4/13/2005	Magnesium	**64**	mg/L	0.3		
PSGW-85-5R-041305	4/13/2005	Magnesium	**55**	mg/L	0.3		
PSGW-URS-14I-041405	4/14/2005	Magnesium	**21**	mg/L	0.3		
PSGW-88-12D-041305	4/13/2005	Magnesium	**150**	mg/L	0.3		
PSGW-URS-7D-041405	4/14/2005	Magnesium	**130**	mg/L	0.3		
PSGW-88-12C-041305	4/13/2005	Magnesium	**110**	mg/L	0.3		
PSGW-85-5R-041305	4/13/2005	Manganese	**0.15**	mg/L	0.01		300
PSGW-88-12C-041305	4/13/2005	Manganese	**0.10**	mg/L	0.01		
PSGW-URS-7R-041405	4/14/2005	Manganese	**0.084**	mg/L	0.01		
PSGW-URS-9I-041305	4/13/2005	Manganese	**0.059**	mg/L	0.01		
PSGW-X-1-DUP	4/13/2005	Manganese	**0.052**	mg/L	0.01		
PSGW-URS-14D-041405	4/14/2005	Manganese	**0.048**	mg/L	0.01		
PSGW-URS-5D-041305	4/13/2005	Manganese	**0.046**	mg/L	0.01		
PSGW-URS-7D-041405	4/14/2005	Manganese	**0.034**	mg/L	0.01		
PSGW-88-12D-041305	4/13/2005	Manganese	**0.015**	mg/L	0.01		
PSGW-URS-9D-041305	4/13/2005	Manganese	**0.01**	mg/L	0.01	J	
PSGW-URS-14I-041405	4/14/2005	Manganese	**0.005**	mg/L	0.01	J	
PSGW-85-5R-041305	4/13/2005	Mercury	< 0.00020	mg/L	0.0002		0.7
PSGW-88-12C-041305	4/13/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-88-12D-041305	4/13/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-URS-14D-041405	4/14/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-URS-14I-041405	4/14/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-URS-5D-041305	4/13/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-URS-7D-041405	4/14/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-URS-7R-041405	4/14/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-URS-9D-041305	4/13/2005	Mercury	< 0.00020	mg/L	0.0002		

Frontier Pendleton Site Groundwater Analytical Data
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ClientSampID	CollectionDate	Analyte	Result	Units	PQL	Qual	NYS Class WQ
PSGW-URS-9I-041305	4/13/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-X-1-DUP	4/13/2005	Mercury	< 0.00020	mg/L	0.0002		
PSGW-URS-5D-041305	4/13/2005	Methylene chloride	**0.2**	µg/L	2	J	5
Trip Blank	4/13/2005	Methylene chloride	**0.1**	µg/L	2	J	
PSGW-85-5R-041305	4/13/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-88-12C-041305	4/13/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-88-12D-041305	4/13/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-URS-14D-041405	4/14/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-URS-14I-041405	4/14/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-URS-7D-041405	4/14/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-URS-7R-041405	4/14/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-URS-9D-041305	4/13/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-URS-9I-041305	4/13/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-X-1-DUP	4/13/2005	Methylene chloride	< 2.0	µg/L	2		
Trip Blank	4/14/2005	Methylene chloride	< 2.0	µg/L	2		
PSGW-URS-5D-041305	4/13/2005	Nickel	**0.25**	mg/L	0.05		100
PSGW-88-12C-041305	4/13/2005	Nickel	**0.05**	mg/L	0.05	J	
PSGW-URS-9I-041305	4/13/2005	Nickel	**0.003**	mg/L	0.05	J	
PSGW-X-1-DUP	4/13/2005	Nickel	**0.003**	mg/L	0.05	J	
PSGW-85-5R-041305	4/13/2005	Nickel	**0.002**	mg/L	0.05	J	
PSGW-URS-14I-041405	4/14/2005	Nickel	**0.002**	mg/L	0.05	J	
PSGW-88-12D-041305	4/13/2005	Nickel	< 0.050	mg/L	0.05		
PSGW-URS-14D-041405	4/14/2005	Nickel	< 0.050	mg/L	0.05		
PSGW-URS-7D-041405	4/14/2005	Nickel	< 0.050	mg/L	0.05		
PSGW-URS-7R-041405	4/14/2005	Nickel	< 0.050	mg/L	0.05		
PSGW-URS-9D-041305	4/13/2005	Nickel	< 0.050	mg/L	0.05		
PSGW-88-12D-041305	4/13/2005	Potassium	**9.8**	mg/L	5		n
PSGW-URS-7D-041405	4/14/2005	Potassium	**5.3**	mg/L	5		
PSGW-URS-7R-041405	4/14/2005	Potassium	**5.1**	mg/L	5		
PSGW-URS-5D-041305	4/13/2005	Potassium	**5.0**	mg/L	5		
PSGW-URS-14I-041405	4/14/2005	Potassium	**5**	mg/L	5	J	
PSGW-88-12C-041305	4/13/2005	Potassium	**3**	mg/L	5	J	
PSGW-URS-14D-041405	4/14/2005	Potassium	**3**	mg/L	5	J	
PSGW-URS-9D-041305	4/13/2005	Potassium	**3**	mg/L	5	J	
PSGW-URS-9I-041305	4/13/2005	Potassium	**3**	mg/L	5	J	
PSGW-X-1-DUP	4/13/2005	Potassium	**3**	mg/L	5	J	
PSGW-85-5R-041305	4/13/2005	Potassium	**1**	mg/L	5	J	
PSGW-85-5R-041305	4/13/2005	Selenium	< 0.0050	mg/L	0.005		10
PSGW-88-12C-041305	4/13/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-88-12D-041305	4/13/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-URS-14D-041405	4/14/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-URS-14I-041405	4/14/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-URS-5D-041305	4/13/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-URS-7D-041405	4/14/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-URS-7R-041405	4/14/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-URS-9D-041305	4/13/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-URS-9I-041305	4/13/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-X-1-DUP	4/13/2005	Selenium	< 0.0050	mg/L	0.005		
PSGW-88-12D-041305	4/13/2005	Silver	**0.001**	mg/L	0.01	J	50
PSGW-URS-7D-041405	4/14/2005	Silver	**0.001**	mg/L	0.01	J	
PSGW-85-5R-041305	4/13/2005	Silver	< 0.010	mg/L	0.01		
PSGW-88-12C-041305	4/13/2005	Silver	< 0.010	mg/L	0.01		
PSGW-URS-14D-041405	4/14/2005	Silver	< 0.010	mg/L	0.01		
PSGW-URS-14I-041405	4/14/2005	Silver	< 0.010	mg/L	0.01		
PSGW-URS-5D-041305	4/13/2005	Silver	< 0.010	mg/L	0.01		
PSGW-URS-7R-041405	4/14/2005	Silver	< 0.010	mg/L	0.01		
PSGW-URS-9D-041305	4/13/2005	Silver	< 0.010	mg/L	0.01		
PSGW-URS-9I-041305	4/13/2005	Silver	< 0.010	mg/L	0.01		
PSGW-X-1-DUP	4/13/2005	Silver	< 0.010	mg/L	0.01		
PSGW-URS-7D-041405	4/14/2005	Sodium	**65**	mg/L	0.3		20,000
PSGW-URS-7R-041405	4/14/2005	Sodium	**54**	mg/L	0.3		
PSGW-URS-14I-041405	4/14/2005	Sodium	**49**	mg/L	0.3		
PSGW-88-12C-041305	4/13/2005	Sodium	**47**	mg/L	0.3		
PSGW-85-5R-041305	4/13/2005	Sodium	**42**	mg/L	0.3		
PSGW-URS-9I-041305	4/13/2005	Sodium	**42**	mg/L	0.3		
PSGW-URS-9D-041305	4/13/2005	Sodium	**41**	mg/L	0.3		
PSGW-X-1-DUP	4/13/2005	Sodium	**41**	mg/L	0.3		
PSGW-URS-14D-041405	4/14/2005	Sodium	**30**	mg/L	0.3		
PSGW-88-12D-041305	4/13/2005	Sodium	**220**	mg/L	0.3		
PSGW-URS-5D-041305	4/13/2005	Sodium	**110**	mg/L	0.3		
PSGW-85-5R-041305	4/13/2005	Styrene	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	Styrene	< 0.50	µg/L	0.5		

ClientSampID	CollectionDate	Analyte	Result	Units	PQL	Qual	NYS Class WQ
PSGW-88-12D-041305	4/13/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Styrene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Styrene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Styrene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Tetrachloroethene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Thallium	< 0.0020	mg/L	0.002		n
PSGW-88-12C-041305	4/13/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-88-12D-041305	4/13/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-14D-041405	4/14/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-14I-041405	4/14/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-5D-041305	4/13/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-7D-041405	4/14/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-7R-041405	4/14/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-9D-041305	4/13/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-9I-041305	4/13/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-X-1-DUP	4/13/2005	Thallium	< 0.0020	mg/L	0.002		
PSGW-URS-5D-041305	4/13/2005	Toluene	0.2	µg/L	0.5	J	5
PSGW-85-5R-041305	4/13/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-88-12C-041305	4/13/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Toluene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Toluene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Toluene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	trans-1,2-Dichloroethene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		n
PSGW-88-12C-041305	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	trans-1,3-Dichloropropene	< 0.50	µg/L	0.5		

ClientSampID	CollectionDate	Analyte	Result	Units	PQL	Qual	NYS Class WQ
PSGW-85-5R-041305	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Trichloroethene	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Trichloroethene	< 0.50	µg/L	0.5		
PSGW-85-5R-041305	4/13/2005	Vanadium	< 0.050	mg/L	0.05		n
PSGW-88-12C-041305	4/13/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-88-12D-041305	4/13/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-URS-14D-041405	4/14/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-URS-14I-041405	4/14/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-URS-5D-041305	4/13/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-URS-7D-041405	4/14/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-URS-7R-041405	4/14/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-URS-9D-041305	4/13/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-URS-9I-041305	4/13/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-X-1-DUP	4/13/2005	Vanadium	< 0.050	mg/L	0.05		
PSGW-85-5R-041305	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		2
PSGW-88-12C-041305	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-88-12D-041305	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-URS-14D-041405	4/14/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-URS-14I-041405	4/14/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-URS-5D-041305	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-URS-7D-041405	4/14/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-URS-7R-041405	4/14/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-URS-9D-041305	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-URS-9I-041305	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-X-1-DUP	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		
Trip Blank	4/14/2005	Vinyl chloride	< 1.0	µg/L	1		
Trip Blank	4/13/2005	Vinyl chloride	< 1.0	µg/L	1		
PSGW-85-5R-041305	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		5
PSGW-88-12C-041305	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-88-12D-041305	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-14D-041405	4/14/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-14I-041405	4/14/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-7D-041405	4/14/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-7R-041405	4/14/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-9D-041305	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-9I-041305	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-X-1-DUP	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		
Trip Blank	4/14/2005	Xylenes (total)	< 0.50	µg/L	0.5		
Trip Blank	4/13/2005	Xylenes (total)	< 0.50	µg/L	0.5		
PSGW-URS-5D-041305	4/13/2005	Zinc	**0.12**	mg/L	0.01		n
PSGW-URS-14I-041405	4/14/2005	Zinc	**0.011**	mg/L	0.01		
PSGW-88-12C-041305	4/13/2005	Zinc	**0.008**	mg/L	0.01	J	
PSGW-85-5R-041305	4/13/2005	Zinc	**0.003**	mg/L	0.01	J	
PSGW-URS-7R-041405	4/14/2005	Zinc	**0.003**	mg/L	0.01	J	
PSGW-URS-9I-041305	4/13/2005	Zinc	**0.002**	mg/L	0.01	J	
PSGW-X-1-DUP	4/13/2005	Zinc	**0.002**	mg/L	0.01	J	
PSGW-88-12D-041305	4/13/2005	Zinc	< 0.010	mg/L	0.01		
PSGW-URS-14D-041405	4/14/2005	Zinc	< 0.010	mg/L	0.01		
PSGW-URS-7D-041405	4/14/2005	Zinc	< 0.010	mg/L	0.01		
PSGW-URS-9D-041305	4/13/2005	Zinc	< 0.010	mg/L	0.01		