

**MARJOL BATTERY SITE  
QUARTERLY PROGRESS REPORT  
NO. 7**

**MARJOL BATTERY SITE  
QUARTERLY PROGRESS REPORT  
NO. 7**

*Prepared For:*

**GOULD ELECTRONICS  
Eastlake, Ohio**

*Prepared By:*

**ADVANCED GEOSERVICES  
West Chester, Pennsylvania**

**May 15, 2008  
92-002-130**

CERTIFICATION STATEMENT

I certify that the information contained in or accompanying Quarterly Progress Report No. 7 dated May 15, 2008 for the Marjol Battery Site in Throop, Pennsylvania is true, accurate and complete.

As to those portions of Quarterly Progress Report No. 7 for which I cannot personally verify their accuracy, I certify under penalty of law that this and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibilities of fines and imprisonment for knowing violations.

SIGNATURE:

*Thomas N. Rich*

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NAME:

Thomas N. Rich

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TITLE:

Chief Administrative Officer

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DATE:

May 15, 2008

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**QUARTERLY PROGRESS REPORT NO. 7  
MARJOL BATTERY SITE**

DATE: May 15, 2008

92-002-130

REPORTING PERIOD: First Quarter 2008 (January 1 to March 31)

This document was prepared to satisfy quarterly progress reporting requirements in the Final Administrative Order on Consent (AOC) U.S. EPA Docket No. RCRA-03-2006-0041 CA effective July 13, 2006 between the United States Environmental Protection Agency (USEPA), Pennsylvania Department of Environmental Protection (PADEP) and Gould Electronics Inc. (Gould).

**ACTIONS DURING FIRST QUARTER 2008**

**CORRECTIVE MEASURES IMPLEMENTATION**

The following activities were accomplished during First Quarter 2008:

- On January 3, 2008, a conference call was held with USEPA, PADEP, Army Corps of Engineers (ACOE), Gannett Fleming, Gould, and AGC to discuss responses to Pre-Final (90%) Design comments.
- On January 7, 2008, a conference call was held with Peters Design Group and AGC regarding comments on the Preliminary Land Development Plan. On January 16, 2008, Advanced GeoServices submitted Responses to Peters Design Group's, December 20, 2007 comments on the Preliminary Land Development Plan.
- On January 11, 2008, Advanced GeoServices, on behalf of Gould Electronics, submitted a revised fence permit fee to Dave Morrell, Throop Borough Zoning Officer. On January 22, 2008, Advanced GeoServices, on behalf of Gould Electronics, submitted a Zoning Permit Application for a fence permit to Dave Morrell, Throop Borough Zoning Officer. On January 24, 2008, Throop Borough issued Gould Electronics a zoning permit for fence dismantling, and reinstallation of old and new fencing associated with implementation of the Final Remedy at the Marjol Battery site.
- On January 11, 2008, responses to Pre-Final (90%) Design comments were submitted to USEPA, PADEP and Gannett Fleming. On February 12, 2008, USEPA and ACOE indicated that there were no additional comments on the responses.

- On January 14, 2008, USEPA and PADEP notified AGC that an Individual NPDES permit may be required in lieu of a General NPDES permit. On January 24, 2008, AGC was notified by PADEP that an Individual NPDES permit will be required.
- On January 16, 2008, AGC received Lackawanna County Conservation District (LCCD) administrative comments on the General NPDES permit application.
- On January 25, 2008, a review request was submitted to the Pennsylvania Historic and Museum Commission (PHMC) for the Individual NPDES permit. On February 6, 2008, a comment letter was received from PHMC regarding the review request for the Individual NPDES permit. The requested information was submitted on February 13, 2008. PHMC provided an approval letter on March 18, 2008.
- LCCD provided January 28, 2008 comments on the Erosion & Sediment Control Plan for the General NPDES Permit Application. On February 26, 2008, responses to LCCD Erosion & Sediment Control Plan comments were submitted.
- On January 29, 2008, notification of submission of an Individual NPDES permit was submitted to Throop Borough and Lackawanna County.
- On January 31, 2008, the Individual NPDES permit application was submitted to LCCD. The Individual NPDES permit application incorporated revisions based on the January 16, 2008 LCCD comments. On February 7, 2008, a site walk was conducted by LCCD, PADEP and AGC regarding the NPDES permit application. Additional comments on the application were received from LCCD during the site walk. On February 13, 2008, responses to LCCD administrative comments on the Individual NPDES permit application during the site walk were submitted.
- On February 1, 2008 and February 28, 2008, USEPA and PADEP comments on the Pre-Final (90%) Design Sampling and Analysis Plan were received. USEPA and PADEP approved submission of responses to SAP comments on March 10, 2008. Responses to comments on the Pre-Final (90%) Design SAP were submitted to USEPA and PADEP on March 10, 2008.
- On February 11, 2008, bids for Corrective Measures Construction were received.
- On February 14, 2008, LCCD provided a letter indicating the Individual NPDES permit application was administratively complete.
- On February 20, 2008, a letter discussing revisions to the passive gas vents per USEPA and PADEP comments was submitted to the PADEP Air Quality office.
- On February 20, 2008, additional comments on the Pre-Final (90%) Design were provided by USEPA and PADEP. A conference call was held on February 21, 2008 between USEPA, ACOE, PADEP, Gannett Fleming, and AGC regarding the

Pre-Final (90%) Design comments. PADEP approved the passive gas vent detail. On February 25, 2008, additional comments on the passive gas vents were provided by ACOE. Responses to the February 20 and 25, 2008 comments were submitted to USEPA and PADEP on March 12, 2008.

- On February 28, 2008, the revised draft Operations and Maintenance Plan was submitted to USEPA and PADEP.
- On March 3, 2008, PADEP comments on the NPDES permit application were received. Responses to the comments were submitted March 10, 2008 to PADEP and LCCD.
- On March 4 and 5, 2008, interviews were conducted with select bidders.
- On March 8, 2008, the notice of the NPDES Individual Permit Application was posted in the PA Bulletin, triggering the start date of the 30-day Public Comment Period for the NPDES Individual Permit.
- On March 15, 2008, a notice of public hearing on April 16, 2008 for the Individual NPDES permit application was published by PADEP.
- On March 25, 2008, comments on the Erosion and Sediment Control Plan for the NPDES permit application were received from LCCD. On March 31, 2008, comments on the Post-Construction Stormwater Management Plan for the NPDES permit application were received from PADEP.
- On March 28, 2008, QA Official qualifications were submitted to USEPA and PADEP.

## **SITE MONITORING AND MAINTENANCE**

The following activities were accomplished during First Quarter 2008:

- Weekly air monitoring continued at the Site, and the results show that the Site is not contributing to air lead. PADEP continues to periodically split samples with Advanced GeoServices at high volume sampler locations #1 and #4. The Fourth Quarter 2007 Ambient Air Monitoring Report and PADEP results are attached.
- HV-6 was moved to Mid-Valley High School on February 27, 2008. The first sample was collected at that location on February 29, 2008.
- Fourth Quarter 2007 surface water and sediment sample results were received that show that the Site is not releasing lead to the River via stormwater discharges despite increased turbidity from muskrat activity in the basin. The Fourth Quarter 2007 Stormwater Management Basin Performance Monitoring Report is attached.

- On January 23, 2008, Advanced GeoServices personnel collected First Quarter 2008 sediment samples as part of the Stormwater Management Basin Monitoring Program. In addition to the samples that have been routinely collected, a composite sample was collected in accordance with the procedures in the revised draft Sampling and Analysis Plan. The preliminary sample result was 23 mg/kg total lead, less than the calculated 95<sup>th</sup> upper confidence limit of the mean for historic sample results at the mouth of Sulphur Creek. The sample collection procedures for the composite laid out in the draft Sampling and Analysis Plan were successfully implemented as written.
- On March 6, 2008, Advanced GeoServices personnel collected First Quarter 2008 surface water samples as part of the Stormwater Management Basin Monitoring Plan.
- The January, February, and March 2008 Monthly Site Visits were performed on January 29, February 27, and March 28, 2008, respectively, and the reports are attached. The site visits show that the site conditions continue to be stable. Advanced GeoServices personnel observed that one muskrat den continues to be present in the basin and the discharge pipe gate valve is secure.
- The high hazard stockpile cover is stable and secure. There is one small tear on the outer edge of the jersey barrier surrounding the pile that will be repaired if it opens up to the surface of the stockpile prior to construction.
- There were signs of all-terrain vehicles traversing the path along the outside of the perimeter chain-link fence during the months of January, February, and March 2008.
- Precipitation for January, February and March 2008 was 3.26", 4.94", and 5.38", respectively in the form of rain and snow.
- Securitas Security (f/k/a Burns Security) continued to patrol the perimeter fence on a regular basis.
- TEEM Environmental was on-site during January, February and March 2008 to perform the following site maintenance activities.
  - Repair heaters in decontamination trailer
  - Thaw frozen water line in decontamination trailer.
  - Secure access chain near guard trailer.
  - Plow snow and apply salt to roadways.

## **COMMUNITY RELATIONS**

The following activities were accomplished during First Quarter 2008:

1. Lisa Ayers attended Throop Borough Council's Special Meeting and Re-organization Meeting on January 7, 2008. (See notes attached.)

2. On January 9, 2008, Gould's web site, <http://www.marjolcleanup.com>, for the Marjol Battery Site was updated. A notification was sent to those individuals who signed up for web-site update notices.
3. On January 15, 2008, Robert Kalinoski, Throop Borough Streets Commissioner, sent a letter to Advanced GeoServices, on behalf of Gould Electronics, regarding hydrant use and a request for a copy of the Bid Documents.
4. On January 15, 2008, Advanced GeoServices, on behalf of Gould Electronics, sent a letter to Throop Borough Council requesting Council's consent for entry on Throop Borough Property (the Catherino Street Right-of-Way) for the purpose of soil removal, post-excavation confirmatory sampling, and ground restoration related to implementation of the Final Remedy at the Marjol Battery Site.
5. Lisa Ayers attended Throop Borough Council's Mid-Month Meeting on January 15, 2008. At that meeting, Throop Borough Council passed a motion to sign a consent for entry on Throop Borough Property (the Catherino Street Right-of-Way) for the purpose of soil removal, post-excavation confirmatory sampling, and ground restoration related to implementation of the Final Remedy at the Marjol Battery Site. (See notes attached.)
6. On January 16, 2008, Gould Electronics obtained the signed Property Access Form from Throop Borough for soil removal, sampling, and restoration on the Catherino Street Right-of-Way related to implementation of the Final Remedy at the Marjol Battery Site.
7. On January 16, 2008, as requested, Advanced GeoServices, on behalf of Gould Electronics, provided Robert Kalinoski of Throop Borough with a copy of the 90% Design with Comments from USEPA/PADEP and Gould's responses to USEPA/PADEP's Comments, the Contract Documents, and Gould's November 27, 2007, Reinforced Slope Design submission. These documents were part of the Bid Package that was provided to bidders.
8. On January 22, 2008, Advanced GeoServices, on behalf of Gould Electronics, responded to Robert Kalinoski, Throop Borough Street Commissioner's January 15, 2008 letter regarding hydrant use and a request for bid documents.
9. On January 24, 2008, Gould Electronics obtained access from the property owner to do soil excavation, post-excavation sampling, and restoration at the property located to the west of 1030 Martarano Drive, Throop, PA. related to implementation of the Final Remedy at the Marjol Battery site.
10. On January 24, 2008, Gould Electronics obtained consent from the property owner to do off-site verification sampling east of the North Woods excavation area.

11. On January 25, 2008, Advanced GeoServices, on behalf of Gould Electronics, sent a letter to the Throop Borough Planning Agency notifying them that Gould was applying to PADEP for an Individual NPDES Permit for Stormwater Discharges associated with Construction Activities at the Marjol Battery Site.
12. On January 29, 2008, Advanced GeoServices, on behalf of Gould Electronics, submitted a letter to Atty. Donald Dolan, Mid-Valley School District Solicitor, regarding placement of a High Volume Air Sampler at the Mid-Valley Secondary Center maintenance building.
13. Lisa Ayers attended the regularly scheduled Throop Borough Council Monthly Meeting on January 29, 2008. (See notes attached.)
14. On February 3, 2008, Gould Electronics Inc. obtained consent from the property owner to do off-site verification sampling to the west of the homes on the west side of Franko Street, Throop, PA.
15. On February 15, 2008, an agreement was signed by Mid Valley School District and Advanced GeoServices, on behalf of Gould Electronics Inc., to relocate high volume air sampler #6 to the Mid Valley School District's maintenance garage facility next to Mid Valley's Secondary Center on Underwood Road in Throop, PA.
16. Lisa Ayers attended the regularly scheduled Throop Borough Council Monthly Meeting on February 26, 2008. (See notes attached.)
17. Marjol Battery Site Newsletter Number 88 was mailed out on February 27, 2008. The following primary topics were covered in the newsletter:
  - What has happened over the last few months?
  - What is happening in the next few months?
  - Community Relations Activities
  - The Basics – How Will Construction Activities Affect Me?
  - The Details – Pre-Final (90%) Design
  - Permitting
18. On February 27, 2008, High Volume Air Sampler #6 was relocated to the Mid-Valley Secondary Center Maintenance Building on Underwood Road in Throop, PA.
19. On March 11, 2008, representatives from USEPA, PADEP, and Advanced GeoServices Corp. attended Throop Borough Council's Public Work Session to address Council regarding the upcoming construction activities. (See notes attached.)
20. Lisa Ayers attended Throop Borough Council's Mid-Month Meeting on March 11, 2008. (See notes attached.)

21. Lisa Ayers attended the regularly scheduled Throop Borough Council Monthly Meeting on March 25, 2008. (See notes attached.)
22. On March 28, 2008, Gould's web site, <http://www.marjolecleanup.com>, for the Marjol Battery Site was updated. A notification was sent to those individuals who signed up for web-site update notices.
23. On March 31, 2008, Lisa Ayers sent a letter to Throop Borough Councilman Anthony Gangemi responding to the questions he asked regarding a mining air shaft and radioactive batteries at the March 25, 2008, Throop Borough Council Work Session.

## **SCHEDULE AND PERCENT COMPLETE**

The attached CMI Schedule has been updated with actual dates on which the tasks were accomplished and corresponding revisions to the projected completion dates. Based on a review of actual expenditures through March 31, 2008 versus the Revised Cost Estimate through June 30, 2007, the CMI is approximately 11% complete.

## **PROBLEMS ENCOUNTERED**

Delay in a determination between whether a General or Individual NPDES Permit would be required extended the time needed to prepare and submit the application for review.

As USEPA and PADEP approval of the trust fund agreement has not yet been received, this activity could not be conducted in accordance with the schedule presented in the Work Plan. The trust fund will be established in accordance with the time frames presented in the schedule once approval is received.

The inability to obtain access to remaining Off-Site Verification sample locations may cause a location to be modified.

## **PERSONNEL CHANGES**

No personnel changes occurred during First Quarter 2008.

## **ACTIONS PLANNED FOR SECOND QUARTER 2008**

### **CORRECTIVE MEASURES IMPLEMENTATION**

The following activities are planned for Second Quarter 2008:

- Submit the Final (100%) Design as 'not-for-construction'.
- Respond to USEPA and PADEP comments on the Sampling and Analysis Plan, and finalize 100% Design SAP.
- Receive USEPA and PADEP approval of the Final (100%) Design.
- Respond to comments and obtain approval of NPDES permit.
- Respond to Throop Borough comments.

- Receive determination of whether a building permit is required from Throop Borough, submit the application, and obtain approval, if required.
- Re-submit Request for Determination for passive gas vents due to design revisions.
- Revise and resubmit the Final (100%) Design 'for construction' based on design and permitting comments received after submission of the Final (100%) Design.
- Submit final title notice within 30 days of USEPA and PADEP approval of the 100% Design.
- Submit the Regulated Fill General Permit.
- Conduct pre-construction notices for permits, where required.
- Select a Contractor and provide notice to proceed.
- Submit Contractor qualifications and obtain USEPA and PADEP approval.
- Make the selected Contractor a co-permittee for the NPDES permit.
- Obtain USEPA and PADEP approval of the QA Official.
- Complete access agreements for Off-Site Verification Sampling.
- Prepare Revised Cost Estimate based on Contractor costs for the 100% Design.
- Conduct a Pre-Construction Meeting.
- Obtain USEPA and PADEP approval of the trust fund agreement and Revised Cost Estimate.
- Establish the trust fund prior to the start of construction.
- Conduct pre-construction Off-Site Verification sampling.
- Conduct supplemental Pre-Design Investigation sampling at the southeast corner of the North Woods.
- Establish survey control points for use by the Contractor.
- Begin construction on May 12, 2008.
- Conduct mobilization and support zone set-up.
- Obtain Trailer Occupancy Permit (to be conducted by Contractor).
- Conduct site preparation activities, including erosion and sediment control feature installation, proposed basin construction, termination of existing basin, and installation and abandonment of monitoring wells.
- Begin excavation and Containment Area construction.
- Conduct Quality Assurance confirmatory soil sampling, and real-time air, pre-construction groundwater and proposed basin monitoring.
- Conduct evaluation of soil moisture on XRF results.

## **SITE MAINTENANCE**

The following activities are planned for Second Quarter 2008, provided the Final (100%) Design is approved and construction begins:

- Continue weekly perimeter air monitoring program in accordance with the Sampling and Analysis Plan.
- Perform Second Quarter 2008 river sediment monitoring in accordance with the Sampling and Analysis Plan.

- Submit results for First Quarter 2008 Ambient Air Monitoring Report with Quarterly Progress Report No. 8.
- Submit results for First Quarter 2008 Stormwater Management Basin Performance Monitoring sampling for surface water and sediment with Quarterly Progress Report No. 8.
- Continue off-site maintenance activities such as mowing.

## COMMUNITY RELATIONS

The following activities are planned for Second Quarter 2008:

- **April 2, 2008** - Update Gould's web site for the Marjol Battery Site
- **April 2008** - Obtain consent from the property owner to do off-site verification sampling at the corner of Franko and Delaware Streets in Throop, PA.
- **April 8, 2008** - Attend USEPA/PADEP's Marjol Open House at the Throop Borough Municipal Building.
- **April 8, 2008** - Attend Throop Borough Council's Work Session preceding its Mid-Month Meeting along with representatives of USEPA/PADEP.
- **April 8, 2008** - Attend Throop Borough Council Mid-Month Meeting.
- **April 14, 2008** - Update Gould's web site for the Marjol Battery Site
- **April 16, 2008** - Attend PADEP's Public Hearing for the NPDES Permit Application.
- **April 2008** - Provide response to Throop Borough Council regarding Bus Routes along Truck Routes during Construction Activities.
- **April 29, 2008** - Attend Regularly Scheduled Throop Borough Council Meeting.
- **Week of May 5<sup>th</sup> to May 9, 2008** - Hold small town meetings with residents of Delaware Street, Franko Street, Hill Street, Martarano Drive, Woodlawn Street, and Sanderson Street.
- **Week of May 5<sup>th</sup> to May 9, 2008** - Call approximately 60 residents living near the Site to inform them of the upcoming start of construction activities.

- **May 2008 -** Meet with Throop Borough Emergency Responders to provide them a copy of the Contractor's Site Specific Health and Safety Plan and to discuss emergency response information during construction activities.
- **May 7, 2008 -** Send out a Flyer to everyone on the mailing list providing information on the start of construction activities.
- **May 7, 2008 -** Update Gould's web site for the Marjol Battery Site providing information on the start of construction activities.
- **May 13, 2008 -** Attend Work Session preceding Throop Borough Council Mid-Month Throop Borough Council Meeting to provide update to Throop Borough Council.
- **May 13, 2008 -** Attend Throop Borough Council Mid-Month Meeting.
- **May 16, 2008 -** Begin making weekly updates to Weekly Construction Schedule Information on Gould's web site for the Marjol Battery Site.
- **May 21, 2008 -** Send out Marjol Battery Site Newsletter Number 89 providing information on the start of construction activities.
- **May 27, 2008 -** Attend Regularly Scheduled Throop Borough Council Meeting.
- **June 10, 2008 -** Attend Work Session preceding Throop Borough Council Mid-Month Throop Borough Council Meeting to provide update to Throop Borough Council.
- **June 10, 2008 -** Attend Throop Borough Council Mid-Month Meeting.
- **June 23, 2008 -** Send out Marjol Battery Site Newsletter Number 89 providing information on the start of construction activities.
- **June 24, 2008 -** Attend Regularly Scheduled Throop Borough Council Meeting.



## ANTICIPATED PROBLEMS

Delay in submission of the Peters Design Group letter indicating the design complies with Throop Borough ordinances will delay approval of the NPDES permit. Delay in approval of the NPDES and Throop Borough permits will delay the start of construction. Delay in approval of the Final (100%) Design by USEPA and PADEP will delay the start of construction.

Barbara L. Forslund, P.E.  
AGC Project Coordinator

cc: Lisa Ayers, AGC  
James Cronmiller, Gould  
Leonard Zelinka, PADEP  
Adam Doubleday, AGC  
Roger Moose, GF

Throop Borough Council  
Louis Cimini, Throop Borough Solicitor  
Ron Brezinski, PADEP  
Repository (c/o Lisa Ayers)

**CORRECTIVE MEASURES IMPLEMENTATION SCHEDULE**  
**1st QUARTER 2008**

Estimated time for construction is 17 months of construction with minimum winter shutdown of 120 days (December through March).

	Milestone		Projected Dates from CMI		Actual Dates
			Work Plan	Revised Projected Dates	
1)	Restart Letter Received	Actual	9/19/2005	n/a	9/19/2005
2)	Notice on Dispute	Actual	9/26/2005	n/a	9/26/2005
3)	Consent Order Rec'd	Actual	12/1/2005	n/a	12/1/2005
4)	Consent Order Signed	Actual	7/13/2006	n/a	7/13/2006
5)	Proj. Coord. And Consultant Notice	In Order	7/13/2006	n/a	7/13/2006
6)	Title Notice Submitted	<b>due 30 days after 4)</b>	8/14/2006	n/a	8/14/2006 (Draft submitted) 5/29/2007 (approved) 6/4/2007 (recorded)
7)	Cost Estimates Submitted	<b>due 30 days after 4)</b>	8/14/2006	n/a	8/14/2006*
8)	CMI Work Plan Submitted	<b>due 60 days after 4)</b>	7/21/2006	n/a	7/21/2006*
9)	Financial Assurances Due	60 days after approval of 7)	11/10/2006 (assumed 30 days to approve 7)	12/31/2007	
10)	CMI WP Approved	assumed 60 days after 8). Can approve PDI early (14 days)	9/19/2006 for entire WP. 8/4/2006 for PDI	n/a	9/1/2006 (mine fire), 11/2/2006 (geoprobe), 2/13/2007 (Work Plan except soil sampling), 4/20/2007 (soil), 5/3/2007 (Work Plan except Section 7.5)
11)	PDI Start	assumed 3 weeks after PDI Work Plan approval, weather permitting	8/28/2006	n/a	9/12/2006 (mine fire), 11/27/2006 (geoprobe), 4/23/2007 (soil, lead), 8/6/2007 (soil, PCB PAH)
12)	PDI Complete	assumed 3 weeks after 11)	9/18/2006	n/a	10/16/2006 (mine fire), 11/29/2006 (geoprobe), 5/25/2007 (soil, lead), 8/6/2007 (soil, PCB PAH)
13)	Prelim. Design Submitted	<b>due 90 days after 12)</b>	12/18/2006	n/a	6/29/2007
14)	Prelim. Design Comments	Assumed 45 days after 13)	2/1/2007	n/a	8/10/2007
15)	Revised Cost Estimate	<b>due on 2/15/2007</b>	2/15/2007	n/a	2/15/2007
16)	90% Design Submitted	<b>due 90 days after 14)</b>	5/2/2007	n/a	11/8/2007
17)	Request for Bid Issued	assumed 2 weeks after 16)	5/16/2007	n/a	12/7/2007
18)	90% Design Approved with Comments	Assumed 30 days after 16)	6/1/2007	n/a	12/13/07 (except SAP)
19)	100% Design Complete to Bidders and EPA	<b>due 2 weeks after 18)</b>	6/15/2007	n/a	4/11/2008
20)	100% Design Approval	assumed 3 weeks after 19)	6/29/2007	5/2/2008	
20a)	Permit Approvals Complete			5/9/2008	
21)	Final Title Notice Submitted	<b>due 30 days after 20)</b>	7/30/2007	6/2/2008	
22)	Bids Received	<b>due 3 weeks after 20)</b>	7/20/2007	n/a	2/11/2008
23)	Award	assumed 2 weeks after 22)	8/3/2007	n/a	4/2/2008
24)	Notice of Contractor to EPA/DEP	<b>Day after award</b>	8/4/2007	n/a	4/3/2008
25)	Revised Cost Estimate	<b>due on 8/15/2007</b>	8/15/2007	n/a	8/15/2007
26)	Construction Start	assumed 2 weeks after award and approvals, weather permitting	8/20/2007	5/12/2008	
27)	Revised Cost Estimate	<b>due 60 days after 20)</b>	8/28/2007	5/25/2008	
28)	Revised Cost Estimate	<b>due on 2/15/2008</b>	2/15/2008	5/25/2008	
29)	Revised Cost Estimate	<b>due on 8/15/2008</b>	8/15/2008	8/15/2008	
30)	Revised Cost Estimate	<b>due on 2/15/2009</b>	2/15/2009	2/15/2009	
31)	Construction Complete	See note above	7/20/2009	11/30/2009	
32)	Revised Cost Estimate	<b>due on 8/15/2009</b>	8/15/2009	8/15/2009	
33)	Submit CMI Report	<b>due 90 days after 31)</b>	10/19/2009	2/28/2010	
34)	CMI Report Approved	assumed 30 days after 33)	11/18/2009	3/30/2010	

NOTES

- The dates in bold are committed dates for submissions. Other dates are assumed time frames for activities. The projected dates are thus minimum dates that depend on earlier dates meeting the schedule. The schedule assumes that the Borough permitting process will not extend the time frame for construction start.
- \* indicates that USEPA and PADEP approval of the submitted document has not yet been received.
- Projected dates are from CMI Work Plan Table 11-1 and represent the original schedule for the CMI. The revised projected dates reflect the current schedule based on approvals received to date.
- USEPA and PADEP approved not submitting the February 15, 2008 revised cost estimate until the 100% Design was approved and construction costs were finalized.

# **MONTHLY SITE REPORTS**

# **JANUARY 2008 SITE VISIT**

# JANUARY 2008 MONTHLY SITE VISIT REPORT

PROJECT:	Marjol Battery Site	PROJECT NO.:	92-002-1MP
LOCATION:	Throop, Pennsylvania	DATE:	January 29, 2008
CLIENT:	Gould Electronics Inc.	WEATHER:	27°F Raining
CONTRACTOR(S):	None		
AGCs REPRESENTATIVE:	Erica Nicholson		
CONTRACTORS REPRESENTATIVE:	None		
VISITORS ON-SITE:	None		
	SHEET:	1 of 2	

## PROGRESS OF WORK:

The perimeter barrier around the high hazard stockpile is stable and intact. The sand bag ballast system holding down the cover on the high hazard stockpile is secure. There is one small tear in the cover near the southwest edge of the pile on the Jersey barrier, this will be repaired if it opens to the surface of the stockpile prior to construction.

The perimeter barrier around the low hazard stockpile is stable. The soil cover is intact and covered with grass.

The battery casing fill area appears stable and secure.

The basin haul road is in fair condition.

The chain-link fence around the mine fissure area and the perimeter fence are stable and intact.

There was no indication of human activity in the area of Smith samples S-1 and S-2 (the wooded area north of the Woodlawn Street playground).

There were signs of all-terrain vehicles traversing the path along the outside of the perimeter chain-link fence during the month of January.

The storm water management basin (SMB) is in good condition. There continues to be one muskrat den in the basin. The ancillary structures are stable and in good condition. The SMB continues to operate as designed.

The northeast vehicle gate area is stable and secure. There a few small pieces of battery casing material on the ground surface, these will be removed during construction.

The vehicle decontamination pad has been shut down for the winter, and will be set up for operation in April 2008. There are a few small pieces of battery casing material on the ground surface adjacent to the decontamination pad, these will be removed during construction.

Both on-site rain gauges are working properly.

Securitas Security continued to patrol the perimeter fence.



## JANUARY 2008 MONTHLY SITE VISIT REPORT (Continued)

PROJECT:	<u>Marjol Battery Site</u>	PROJECT NO.:	<u>92-002-1MP</u>
LOCATION:	<u>Throop, Pennsylvania</u>	DATE:	<u>January 29, 2008</u>
CLIENT:	<u>Gould Electronics Inc.</u>	WEATHER:	<u>27°F Raining</u>
CONTRACTOR(S)	<u>None</u>		
AGCs REPRESENTATIVE:	<u>Erica Nicholson</u>		
CONTRACTORS REPRESENTATIVE:	<u>None</u>		
VISITORS ON-SITE:	<u>None</u>		
	SHEET:	<u>2 of 2</u>	

On January 23, 2008, Advanced GeoServices personnel collected First Quarter 2007 sediment samples as part of the Stormwater Management Basin Monitoring Plan.

TEEM Environmental was on-site to perform the following tasks during January:

- January 15, 2008 - Plow snow and apply salt to roadways.
- January 18, 2008 - Plow snow and apply salt to roadways.
- January 20, 2008 - Plow snow and apply salt to roadways.

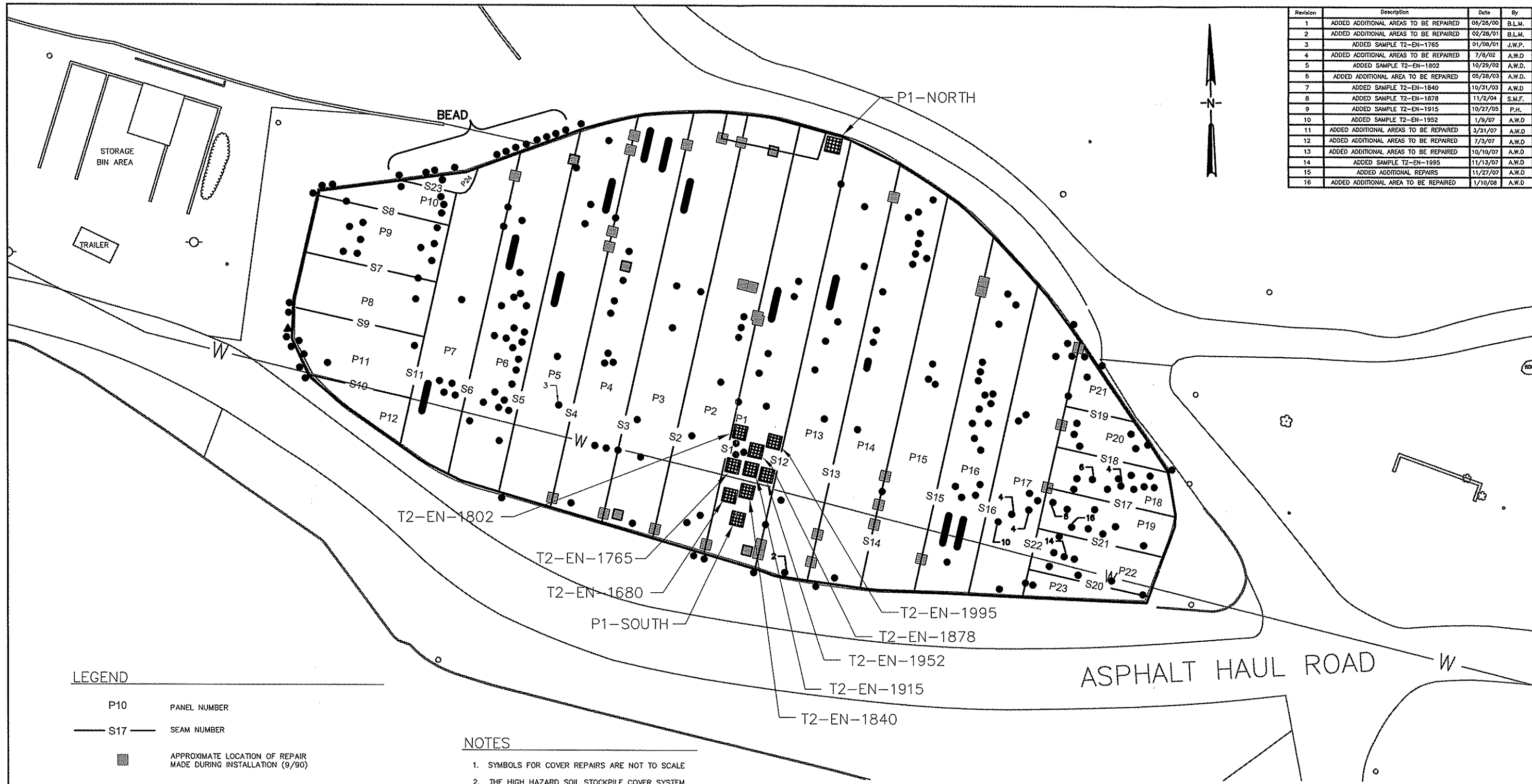
HV air monitors #1, 2, 3, 4, 6, 7 were set up for operation on 1/6, 1/12, 1/18, 1/24, and 1/30/2008.

The site received 3.26" of precipitation in the month of January in the form of rain and snow.

FIELD REPRESENTATIVE: Erica Nicholson

REVIEWED BY: 

Revision	Description	Date	By
1	ADDED ADDITIONAL AREAS TO BE REPAIRED	06/28/00	B.L.M.
2	ADDED ADDITIONAL AREAS TO BE REPAIRED	02/28/01	B.L.M.
3	ADDED SAMPLE T2-EN-1765	01/08/01	J.W.P.
4	ADDED ADDITIONAL AREAS TO BE REPAIRED	7/8/02	A.W.D.
5	ADDED SAMPLE T2-EN-1802	10/29/02	A.W.D.
6	ADDED ADDITIONAL AREA TO BE REPAIRED	05/28/03	A.W.D.
7	ADDED SAMPLE T2-EN-1840	10/31/03	A.W.D.
8	ADDED SAMPLE T2-EN-1878	11/2/04	S.M.F.
9	ADDED SAMPLE T2-EN-1915	10/27/05	P.H.
10	ADDED SAMPLE T2-EN-1952	1/9/07	A.W.D.
11	ADDED ADDITIONAL AREAS TO BE REPAIRED	3/31/07	A.W.D.
12	ADDED ADDITIONAL AREAS TO BE REPAIRED	7/3/07	A.W.D.
13	ADDED ADDITIONAL AREAS TO BE REPAIRED	10/10/07	A.W.D.
14	ADDED SAMPLE T2-EN-1995	11/13/07	A.W.D.
15	ADDED ADDITIONAL REPAIRS	11/27/07	A.W.D.
16	ADDED ADDITIONAL AREA TO BE REPAIRED	1/10/08	A.W.D.

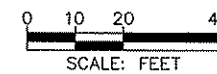


**LEGEND**

- P10 PANEL NUMBER
- S17 SEAM NUMBER
- APPROXIMATE LOCATION OF REPAIR MADE DURING INSTALLATION (9/90)
- ◐ APPROXIMATE LOCATION OF REPAIRS MADE SINCE INSTALLATION
- ▲ SMALL AREAS TO BE REPAIRED
- 10 NUMBER OF REPAIRS WITHIN A CONCENTRATED AREA
- W DISCONNECTED, GROUDED, WATER LINE
- P1-NORTH COVER SAMPLE LOCATION AND IDENTIFICATION NUMBER

**NOTES**

1. SYMBOLS FOR COVER REPAIRS ARE NOT TO SCALE
2. THE HIGH HAZARD SOIL STOCKPILE COVER SYSTEM WAS INSTALLED BY RESICON CONTAINMENT INC. IN SEPTEMBER 1990.
3. ALL REPAIRS HAVE ONLY BEEN TO THE HDPE COVER. THE UNDERLYING GEOTEXTILE FABRIC HAS NOT REQUIRED REPAIRS SINCE INSTALLATION.



ASPHALT HAUL ROAD

**MARJOL BATTERY SITE**  
THROOP BOROUGH, LACKAWANNA COUNTY, PENNSYLVANIA

**HIGH HAZARD SOIL STOCKPILE COVER PATCH LOCATION PLAN, JANUARY 2008**



**Advanced GeoServices Corp.**  
1055 Andrew Drive Suite A  
West Chester, Pennsylvania 19380  
(610) 840-9100  
FAX: (610) 840-9199

Scale: 1"=40'
Originated By: A.W.D.
Drawn By: A.W.D.
Checked By: E.H.N.
Project Mgr: B.L.F.
Dwg No. 92002-20
<b>MAY 15 2008</b>

Project No.  
92-002-120

FIGURE: 1

# **FEBRUARY 2008 SITE VISIT**

# FEBRUARY 2008 MONTHLY SITE VISIT REPORT

PROJECT:	Marjol Battery Site	PROJECT NO.:	92-002-1MP
LOCATION:	Throop, Pennsylvania	DATE:	February 27, 2008
CLIENT:	Gould Electronics Inc.	WEATHER:	25°F Sunny
CONTRACTOR(S):	None		
AGCs REPRESENTATIVE:	Adam Doubleday and Erica Nicholson		
CONTRACTORS REPRESENTATIVE:	None		
VISITORS ON-SITE:	None		
	SHEET:	1 of 2	

## PROGRESS OF WORK:

The perimeter barrier around the high hazard stockpile is stable and intact. The sand bag ballast system holding down the cover on the high hazard stockpile is secure. There is one small tear in the cover near the southwest edge of the pile on the Jersey barrier, this will be repaired if it opens to the surface of the stockpile prior to construction.

The perimeter barrier around the low hazard stockpile is stable. The soil cover is intact and covered with grass.

The battery casing fill area appears stable and secure.

The basin haul road is in fair condition.

The chain-link fence around the mine fissure area and the perimeter fence are stable and intact.

There was no indication of human activity in the area of Smith samples S-1 and S-2 (the wooded area north of the Woodlawn Street playground).

There were signs of all-terrain vehicles traversing the path along the outside of the perimeter chain-link fence during the month of February.

The storm water management basin (SMB) is in good condition. There continues to be one muskrat den in the basin. The ancillary structures are stable and in good condition. The SMB continues to operate as designed.

The northeast vehicle gate area is stable and secure. There a few small pieces of battery casing material on the ground surface, these will be removed during construction.

The vehicle decontamination pad has been shut down for the winter, and will be set up for operation in April 2008. There are a few small pieces of battery casing material on the ground surface adjacent to the decontamination pad, these will be removed during construction.

Both on-site rain gauges are working properly.

Securitas Security continued to patrol the perimeter fence.



## FEBRUARY 2008 MONTHLY SITE VISIT REPORT (Continued)

PROJECT:	<u>Marjol Battery Site</u>	PROJECT NO.:	<u>92-002-1MP</u>
LOCATION:	<u>Throop, Pennsylvania</u>	DATE:	<u>February 27, 2008</u>
CLIENT:	<u>Gould Electronics Inc.</u>	WEATHER:	<u>25°F Sunny</u>
CONTRACTOR(S)	<u>None</u>		
AGCs REPRESENTATIVE:	<u>Adam Doubleday and Erica Nicholson</u>		
CONTRACTORS REPRESENTATIVE:	<u>None</u>		
VISITORS ON-SITE:	<u>None</u>		
	SHEET:	<u>2 of 2</u>	

On February 27, 2008, HV-6 was successfully moved to the outdoor maintenance equipment area at Mid Valley High School, approximately one mile southeast of the site.

TEEM Environmental was on-site to perform the following tasks during February:

- February 1, 2008 - Plow snow and apply salt to roadways.
- February 2, 2008 - Plow snow and apply salt to roadways.
- February 10, 2008 - Plow snow and apply salt to roadways.
- February 11, 2008 - Plow snow and apply salt to roadways.
- February 12, 2008 – Repair heaters in decontamination trailer and thaw frozen water line.
- February 13, 2008 – Secure access chain near guard trailer.
- February 14, 2008 - Plow snow and apply salt to roadways.
- February 22, 2008 - Plow snow and apply salt to roadways.
- February 23, 2008 - Plow snow and apply salt to roadways.
- February 26, 2008 - Plow snow and apply salt to roadways.
- February 1, 2008 - Plow snow and apply salt to roadways.

HV air monitors #1, 2, 3, 4, 6, 7 were set up for operation on 2/5, 2/11, 2/17, 2/23, and 2/29/2008. For HV-6, 2/29/2008 was the first sample collected at Mid-Valley High School.

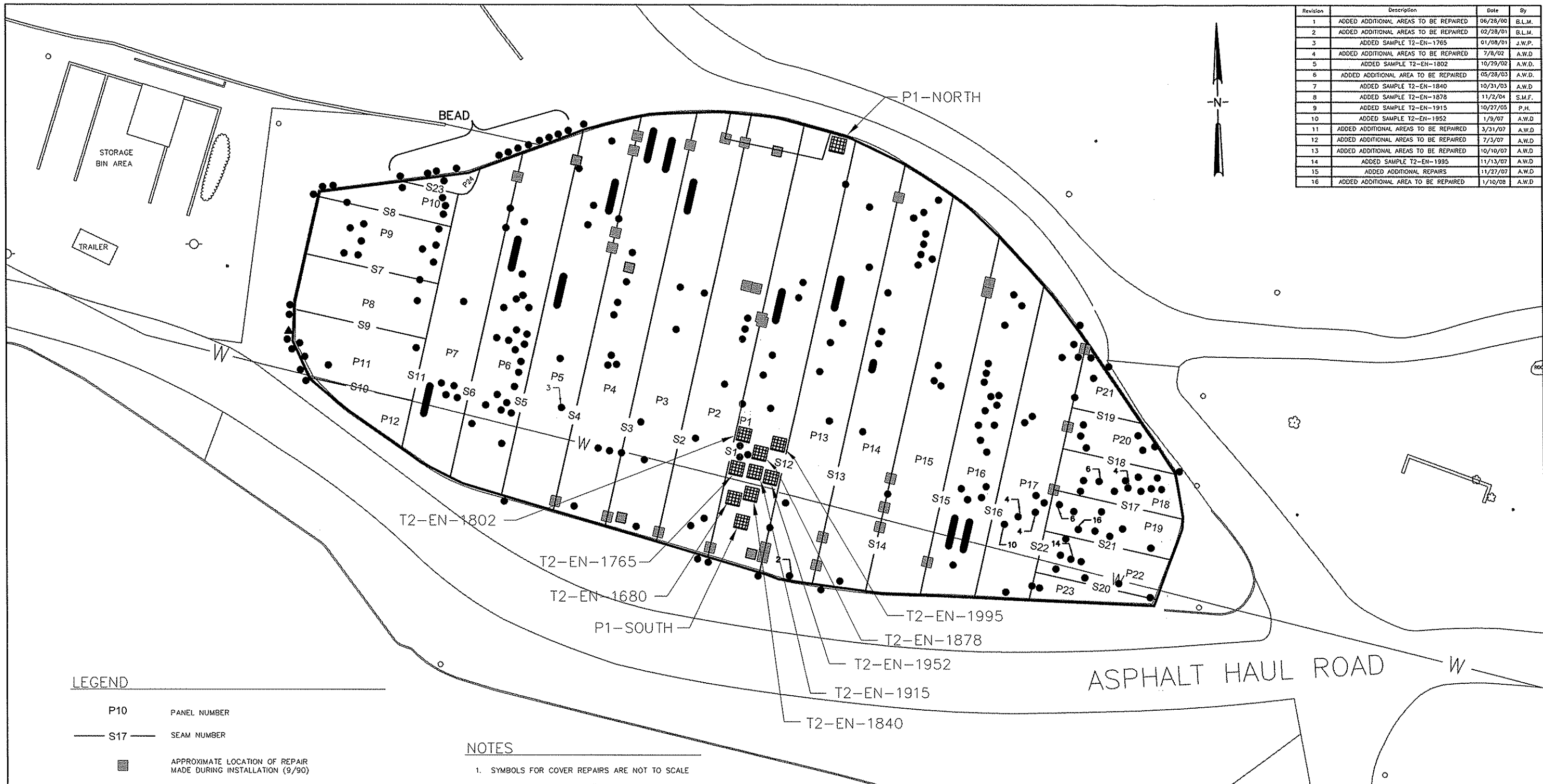
The site received 4.94" of precipitation in the month of February in the form of rain and snow.

**FIELD REPRESENTATIVE:** Adam Doubleday/Erica  
Nicholson

**REVIEWED BY:**

BVF

Revision	Description	Date	By
1	ADDED ADDITIONAL AREAS TO BE REPAIRED	06/28/00	B.L.M.
2	ADDED ADDITIONAL AREAS TO BE REPAIRED	02/28/01	B.L.M.
3	ADDED SAMPLE T2-EN-1765	01/08/01	J.W.P.
4	ADDED ADDITIONAL AREAS TO BE REPAIRED	7/8/02	A.W.D.
5	ADDED SAMPLE T2-EN-1802	10/29/02	A.W.D.
6	ADDED ADDITIONAL AREA TO BE REPAIRED	05/28/03	A.W.D.
7	ADDED SAMPLE T2-EN-1840	10/31/03	A.W.D.
8	ADDED SAMPLE T2-EN-1878	11/2/04	S.M.F.
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10	ADDED SAMPLE T2-EN-1952	1/9/07	A.W.D.
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12	ADDED ADDITIONAL AREAS TO BE REPAIRED	7/3/07	A.W.D.
13	ADDED ADDITIONAL AREAS TO BE REPAIRED	10/10/07	A.W.D.
14	ADDED SAMPLE T2-EN-1995	11/13/07	A.W.D.
15	ADDED ADDITIONAL REPAIRS	11/27/07	A.W.D.
16	ADDED ADDITIONAL AREA TO BE REPAIRED	1/10/08	A.W.D.

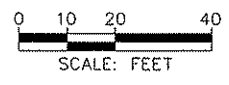


**LEGEND**

- P10 PANEL NUMBER
- S17 SEAM NUMBER
- APPROXIMATE LOCATION OF REPAIR MADE DURING INSTALLATION (9/90)
- ▨ APPROXIMATE LOCATION OF REPAIRS MADE SINCE INSTALLATION
- ▲ SMALL AREAS TO BE REPAIRED
- 10 NUMBER OF REPAIRS WITHIN A CONCENTRATED AREA
- W DISCONNECTED, GROUDED, WATER LINE
- P1-NORTH COVER SAMPLE LOCATION AND IDENTIFICATION NUMBER

**NOTES**

1. SYMBOLS FOR COVER REPAIRS ARE NOT TO SCALE
2. THE HIGH HAZARD SOIL STOCKPILE COVER SYSTEM WAS INSTALLED BY RESICON CONTAINMENT INC. IN SEPTEMBER 1990.
3. ALL REPAIRS HAVE ONLY BEEN TO THE HDPE COVER. THE UNDERLYING GEOTEXTILE FABRIC HAS NOT REQUIRED REPAIRS SINCE INSTALLATION.



**MARJOL BATTERY SITE**  
THROOP BOROUGH, LACKAWANNA COUNTY, PENNSYLVANIA

**HIGH HAZARD SOIL STOCKPILE COVER PATCH LOCATION PLAN, FEBRUARY 2008**

Advanced GeoServices Corp.  
1055 Andrew Drive Suite A  
West Chester, Pennsylvania 19380  
(610) 840-9100  
FAX: (610) 840-9199

Scale:	1"=40'
Originated By:	A.W.D.
Drawn By:	A.W.D.
Checked By:	E.H.N.
Project Mgr:	B.L.F.
Dwg No:	92002-20
Project No:	92-002-120

MAY 15 2008

FIGURE: 1

# **MARCH 2008 SITE VISIT**

# MARCH 2008 MONTHLY SITE VISIT REPORT

PROJECT:	Marjol Battery Site	PROJECT NO.:	92-002-1MP
LOCATION:	Throop, Pennsylvania	DATE:	March 28, 2008
CLIENT:	Gould Electronics Inc.	WEATHER:	38°F Cloudy/Raining
CONTRACTOR(S):	None		
AGCs REPRESENTATIVE:	Adam Doubleday and Erica Nicholson		
CONTRACTORS REPRESENTATIVE:	None		
VISITORS ON-SITE:	None		
	SHEET:	1 of 2	

## PROGRESS OF WORK:

The perimeter barrier around the high hazard stockpile is stable and intact. The sand bag ballast system holding down the cover on the high hazard stockpile is secure. There is one small tear in the cover near the southwest edge of the pile on the Jersey barrier, this will be repaired if it opens to the surface of the stockpile prior to construction.

The perimeter barrier around the low hazard stockpile is stable. The soil cover is intact and covered with grass.

The battery casing fill area appears stable and secure.

The basin haul road is in fair condition.

The chain-link fence around the mine fissure area and the perimeter fence are stable and intact.

There was no indication of human activity in the area of Smith samples S-1 and S-2 (the wooded area north of the Woodlawn Street playground).

There were signs of all-terrain vehicles traversing the path along the outside of the perimeter chain-link fence during the month of March.

The storm water management basin (SMB) is in good condition. There continues to be one muskrat den in the basin. The ancillary structures are stable and in good condition. The SMB continues to operate as designed.

The northeast vehicle gate area is stable and secure. There a few small pieces of battery casing material on the ground surface, these will be removed during construction.

The vehicle decontamination pad has been shut down for the winter, and will be set up for operation in April 2008. There are a few small pieces of battery casing material on the ground surface adjacent to the decontamination pad, these will be removed during construction.

Both on-site rain gauges are working properly.

Securitas Security continued to patrol the perimeter fence.



## MARCH 2008 MONTHLY SITE VISIT REPORT (Continued)

PROJECT:	<u>Marjol Battery Site</u>	PROJECT NO.:	<u>92-002-1MP</u>
LOCATION:	<u>Throop, Pennsylvania</u>	DATE:	<u>March 28, 2008</u>
CLIENT:	<u>Gould Electronics Inc.</u>	WEATHER:	<u>38°F Cloudy/Raining</u>
CONTRACTOR(S)	<u>None</u>		
AGCs REPRESENTATIVE:	<u>Erica Nicholson</u>		
CONTRACTORS REPRESENTATIVE:	<u>None</u>		
VISITORS ON-SITE:	<u>None</u>		
	SHEET:	<u>2 of 2</u>	

On March 6, 2008, Advanced GeoServices personnel collected First Quarter 2007 surface water samples as part of the Stormwater Management Basin Monitoring Plan.

TEEM Environmental was on-site to perform the following tasks during March:

- March 1, 2008 - Plow snow and apply salt to roadways.

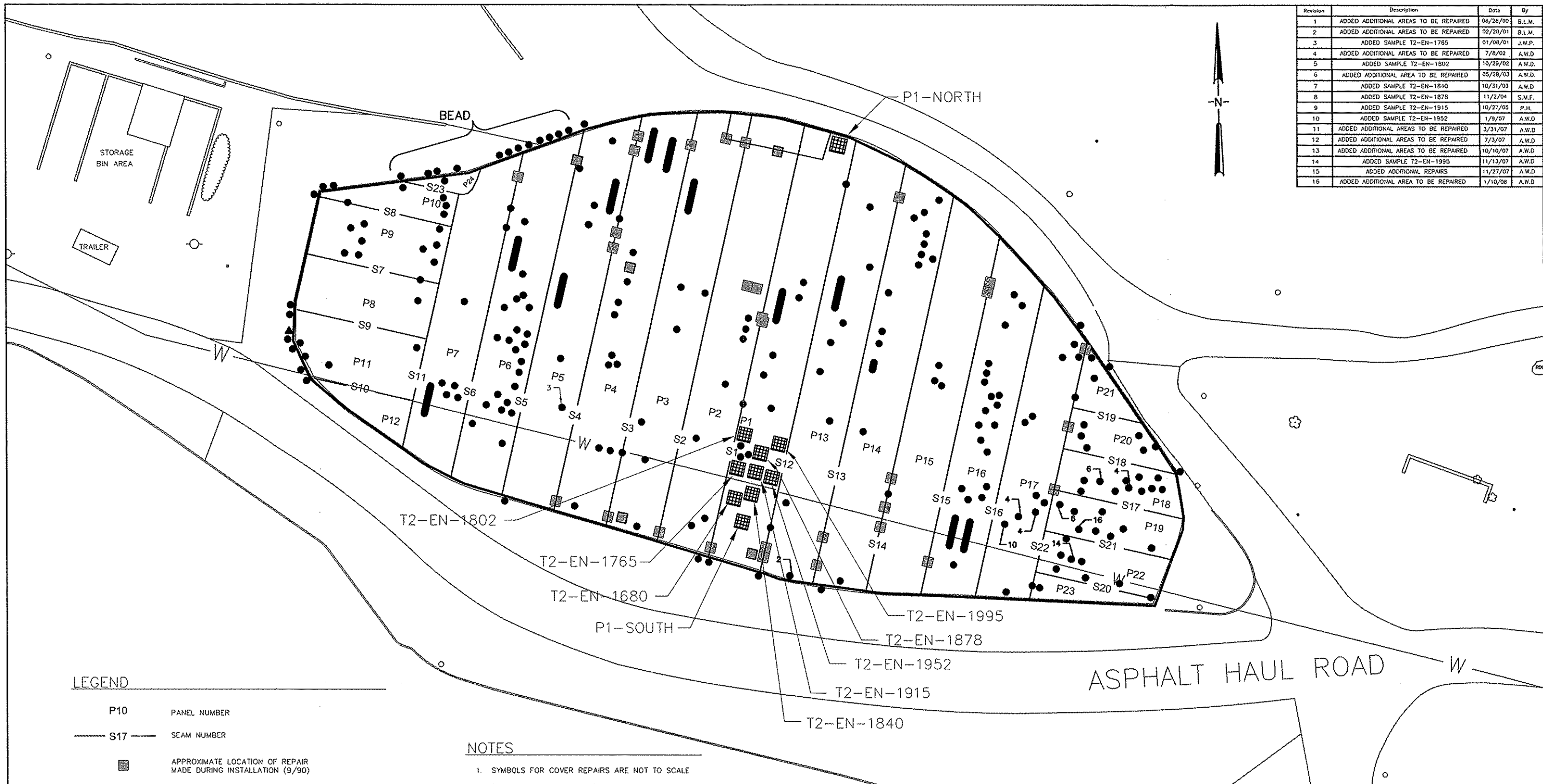
HV air monitors #1, 2, 3, 4, 6, 7 were set up for operation on 3/6, 3/12, 3/18, 3/24, 3/30/2008.

The site received 5.38" of precipitation in the month of March in the form of rain and snow.

FIELD REPRESENTATIVE: Erica Nicholson

REVIEWED BY: *bnf*

Revision	Description	Date	By
1	ADDED ADDITIONAL AREAS TO BE REPAIRED	06/28/00	B.L.M.
2	ADDED ADDITIONAL AREAS TO BE REPAIRED	02/28/01	B.L.M.
3	ADDED SAMPLE T2-EN-1765	01/08/01	J.W.P.
4	ADDED ADDITIONAL AREAS TO BE REPAIRED	7/8/02	A.W.D.
5	ADDED SAMPLE T2-EN-1802	10/29/02	A.W.D.
6	ADDED ADDITIONAL AREA TO BE REPAIRED	05/28/03	A.W.D.
7	ADDED SAMPLE T2-EN-1840	10/31/03	A.W.D.
8	ADDED SAMPLE T2-EN-1878	11/2/04	S.M.F.
9	ADDED SAMPLE T2-EN-1915	10/27/05	P.H.
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15	ADDED ADDITIONAL REPAIRS	11/27/07	A.W.D.
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**LEGEND**

- P10 PANEL NUMBER
- S17 SEAM NUMBER
- APPROXIMATE LOCATION OF REPAIR MADE DURING INSTALLATION (9/90)
- APPROXIMATE LOCATION OF REPAIRS MADE SINCE INSTALLATION
- SMALL AREAS TO BE REPAIRED
- NUMBER OF REPAIRS WITHIN A CONCENTRATED AREA
- W DISCONNECTED, GROUTED, WATER LINE
- P1-NORTH  
 COVER SAMPLE LOCATION AND IDENTIFICATION NUMBER

**NOTES**

1. SYMBOLS FOR COVER REPAIRS ARE NOT TO SCALE
2. THE HIGH HAZARD SOIL STOCKPILE COVER SYSTEM WAS INSTALLED BY RESICON CONTAINMENT INC. IN SEPTEMBER 1990.
3. ALL REPAIRS HAVE ONLY BEEN TO THE HDPE COVER. THE UNDERLYING GEOTEXTILE FABRIC HAS NOT REQUIRED REPAIRS SINCE INSTALLATION.



**MARJOL BATTERY SITE**  
THROOP BOROUGH, LACKAWANNA COUNTY, PENNSYLVANIA

**HIGH HAZARD SOIL STOCKPILE COVER PATCH LOCATION PLAN, MARCH 2008**

Scale: 1"=40'  
 Originated By: A.W.D.  
 Drawn By: A.W.D.  
 Checked By: E.H.N.  
 Project Mgr: B.L.F.  
 Dwg No. 92002-20

**Advanced GeoServices Corp.**  
 1055 Andrew Drive Suite A  
 West Chester, Pennsylvania 19380  
 (610) 840-9100  
 FAX: (610) 840-9199

Project No. 92-002-120  
**MAY 15 2008**  
 FIGURE: 1

**FOURTH QUARTER 2007  
AMBIENT AIR MONITORING REPORT  
MARJOL BATTERY SITE  
THROOP, PENNSYLVANIA**

**FOURTH QUARTER 2007  
AMBIENT AIR MONITORING REPORT  
MARJOL BATTERY SITE  
THROOP, PENNSYLVANIA**

***Prepared For:***

Gould Electronics  
Eastlake, Ohio

***Prepared By:***

Advanced GeoServices Corp.  
West Chester, Pennsylvania

April 22, 2008  
92-002-120-03

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1	High-Volume Sampler Locations Marjol Battery Site, Throop, PA
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### APPENDIX

- A Hi-Volume Sampler Calibration Worksheets
- B Orifice Transfer Standard Certification Worksheet
- C First Analytical Laboratories Data
- D Data Evaluation Checklists
- E Air Monitoring Program Checklists
- F Climatological Data

## 1.0 INTRODUCTION

Advanced GeoServices Corp. (Advanced GeoServices), of West Chester, Pennsylvania, was retained by Gould Electronics to perform continuous ambient air monitoring for lead concentrations at the Marjol Battery Site (Site) in Throop, Pennsylvania starting December 1, 1997. Prior to December 1997, ERD Environmental (ERD), of Pipersville, Pennsylvania was responsible for the set up and maintenance of the air samplers, collection of the air filters and monitoring of wind speed and direction data. The ambient air data presented in this report are for the 4th Quarter of 2007.

To provide a profile of the ambient air lead concentrations on and surrounding the Site, a network of six high-volume samplers were run on a six day rotating sampling schedule. All sampling was simultaneous, with each event lasting approximately 24 hours. The air filters were collected weekly and sent monthly during October, November, and December to First Analytical Laboratories (FAL), Chapel Hill, North Carolina for lead analysis.

## 2.0 AMBIENT AIR SAMPLING PROCEDURES

### 2.1 SAMPLE COLLECTION

Sample collection was performed using the high-volume sampler method in accordance with 40 CFR 50, Appendix G. Samples are collected by drawing ambient air through a glass fiber filter at a rate of approximately 45 cubic feet per minute (CFM). The samplers are operated for a nominal 24 hour period. General Metal Works GMWS-2310 ACCU-VOL samplers are used. These samplers automatically control the sample flow rate to a referenced set point. Continuous flow recorders are used, as well as elapsed time indicators, to verify continuous rates and length of sampling time. Samplers are automatically started and stopped by an electrical timer.

### 2.2 SAMPLE LOCATIONS

Six high-volume samplers are located on and near the Site. The predominant wind direction is from the west and northwest. Two samplers are located in the predominant upwind direction, three samplers are located in the predominant downwind direction and one sampler is in the nearby town, Dickson City. The six monitoring locations are presented below and on the following map, Figure 1.

- HV-1 Northeast corner of the Site. This location is downwind of the battery casing material fill area when the wind is from the west and southwest.
- HV-2 Southeast corner of the Site. This location is downwind of the battery casing material fill area when the wind is from the west and northwest.
- HV-3 Southeast of battery casing material fill area inside the Site perimeter fence. This location is downwind of the battery casing material fill area when the wind is from the west and northwest.

- HV-4 Southwest corner of the Site. The location is predominantly upwind of the battery casing material fill area.
- HV-6 Northeast of storm water management basin inside the Site perimeter. This location is predominately upwind of the battery casing material fill area, but downwind of the storm water management basin.
- HV-7 Next to Dickson City Fire House approximately, one mile north of the Site. This location provides background data on ambient air lead concentrations.

### 2.3 SAMPLE IDENTIFICATION

Each filter collected was placed into a plastic bag and labeled. The sample label contained the following information:

- Advanced GeoServices project number;
- Date and time (military) of sample collection;
- Sample designation;
- Whether the sample is a grab or composite;
- Field representative(s) collecting the sample (Sampler); and,
- Analyses requested.

The sample designation consisted of the sample location (HV-1, HV-2, etc.) and sample run date (month, date, year) (example HV-6-122507).

### 2.4 SAMPLE CUSTODY

Sample custody was maintained by Advanced GeoServices field representative until the samples were transferred to Advanced GeoServices Quality Assurance Scientist. Advanced GeoServices Quality Assurance Scientist maintained the custody of the samples until a complete month's worth

of samples were collected. The samples were then sent to the laboratory (FAL) via FED-EX. All transfers of custody of the samples were noted in the chain-of-custody records.

## 2.5 ANALYTICAL PROCEDURES

The samples were prepared according to SW-846 Method 3050B, which is a nitric acid digestion. One quarter of each sample (filter) was subjected to the digestion. Each digested sample was subsequently analyzed for lead in accordance with SW-846 Method 7421 (graphite furnace atomic absorption).

### 3.0 QUALITY ASSURANCE/QUALITY CONTROL

#### 3.1 CALIBRATION PROCEDURES AND FREQUENCY

##### 3.1.1 Field Sampler Calibration and Frequency

Each of the six high-volume samplers was calibrated at least once during the fourth quarter. Additionally, when a motor or a flow recorder was replaced, the sampler was recalibrated. The samplers were calibrated using a calibrated, certified orifice. The orifice pressure drop was used to set the sampler's internal mass flow meter to sample at a constant rate. The calibration worksheets are presented in Appendix A.

The sampling time for each high-volume sampler was verified upon the collection of the samples. The time of operation should have been within  $\pm 15\%$  of the total set sampling time of 24 hours. The Dickson disc recorder was also checked and each high-volume sampler should have operated within  $\pm 5 \text{ ft}^3/\text{min}$  of the calibrated flow rate. When either of these criteria was not met, corrective action was taken.

##### 3.1.2 Orifice Calibration and Frequency

The Rootsmeter (s/n 9833620), Orifice ID 81K, was sent to Tisch Environmental, Village of Cleves, Ohio. The orifice was checked on February 13, 2007 for the annual performance calibration certification. The orifice transfer standard certification worksheets are presented in Appendix B.

##### 3.1.3 Laboratory Instrument Calibration and Frequency

The filters were analyzed using graphite furnace atomic absorption methodology. Laboratory instruments were calibrated following the referenced SW-846 methodology. Initial calibrations were performed prior to sample analyses and instrument performance check standards were analyzed throughout the analytical run. A blank and four standards of known concentrations were used to

establish the calibration curve. The confirmation check sample was analyzed, at a minimum, after every ten samples.

### 3.2 DATA REDUCTION, VALIDATION AND REPORTING

The laboratory results were presented as total micrograms of lead present on the entire filter (lead content). Field blank contamination, when present, was subtracted from the measured lead content on each filter and the corrected value was used to calculate the total airborne lead concentration in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). The calculated total lead concentrations are reported on Table 1, Air Monitoring Results Summary. For each sample, the total airborne lead concentration was calculated as follows:

$$Pb \frac{\mu\text{g}}{\text{m}^3} = \frac{A - B}{T \times R}$$
$$R = \frac{45 \frac{\text{ft}^3}{\text{min}}}{\left(\frac{3.2806 \text{ ft}}{\text{m}}\right)^3} = 1.274 \frac{\text{m}^3}{\text{min}}$$

Where:

A = lead content ( $\mu\text{g}$ )

B = blank value ( $\mu\text{g}$ )

T = total time (min)

R = rate ( $\text{m}^3/\text{min}$ )

Validation of analytical data as received by the laboratory was performed by an Advanced GeoServices Quality Assurance Scientist. Validation was performed in accordance with the following data validation documents, where applicable:

- USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review. Office of Emergency and Remedial Response, USEPA, Washington D.C., February 1994.

- Region III Modifications to the Laboratory Data Validation Functional Guidelines for Evaluating Inorganic Analyses. USEPA Region III, Annapolis, MD. April 1993.

Data deliverables from the laboratory are included in Appendix C of this report. The laboratory deliverables include a results summary, QC summary for all laboratory QC samples and blanks, instrument raw data and chain-of-custodies. The data evaluation checklists completed upon validation of the laboratory deliverables are included in Appendix D.

### 3.3 INTERNAL QUALITY CONTROL CHECKS

A field blank was collected each month. The field blanks, filters from the same manufacturer and lot as the filters used to collect the samples, were analyzed with (and in the same manner) as the field samples. Lead contamination was not present in any of the field blanks.

Laboratory method blanks were prepared using the same reagents and procedures as the samples and analyzed with each set of samples. No lead contamination was present in any of the laboratory method blanks.

Matrix spike (MS) and matrix spike duplicate (MSD) samples were prepared by placing a known quantity of selected target analyte into a second aliquot of an actual field sample. At a minimum, one MS and MSD were prepared and analyzed with each set of samples. The MS and MSD recoveries were within acceptance limits.

Initial and continuing calibrations were performed throughout the analysis run to ensure accuracy. All of the associated initial and continuing calibration percent recoveries were within acceptable limits.

Laboratory replicate (duplicate) samples were analyzed with each set of samples. All laboratory replicates exhibited good reproducibility.

A laboratory control sample (LCS) was prepared by the laboratory by adding known concentrations of lead to DI water for analysis. One LCS was prepared, analyzed and reported for each set of samples. The LCS recoveries were all within acceptance criteria.

### 3.4 PREVENTATIVE MAINTENANCE

High-volume samplers are maintained in accordance with the manufacturer's instructions. All samplers were checked prior to installation in the field. Weekly, the high-volume sampler strip charts and timer run length were checked by a field technician to ensure continuous sample collection. The 4th Quarter 2007 Air Monitoring Program Checklists are provided in Appendix E. All high-volume samplers are checked for total time of operation and flow rate. When the operation time or flow rate of a sampler is not within the defined acceptance ranges, preventative maintenance is performed. Preventative maintenance may include replacement of motor, replacement of pen, replacement of the entire high-volume sampler unit, adjustment of the Dickson recorder, etc. Specific maintenance performed is included on the Air Monitoring Program Checklists (Appendix E).

Advanced GeoServices has nine high-volume samplers (three of which are kept in storage). The six high-volume samplers which are in use are calibrated quarterly. The additional three high-volume samplers are available for use if a high-volume sampler in the field malfunctions and can not be repaired. Prior to use in the field, each new high-volume sampler is calibrated. The calibrations for the high-volume samplers are presented in Appendix A.

### 3.5 SPECIFIC ROUTINE PROCEDURES USED TO ASSESS DATA PRECISION, ACCURACY AND COMPLETENESS

The precision and accuracy of laboratory test results were acceptable. No lead contamination was present in the field blanks, method blanks, or calibration blanks. All laboratory duplicate results and MS/MSD results exhibited good reproducibility. Matrix spike and matrix spike duplicate results were within acceptance criteria. All associated initial and continuing calibration percent recoveries were within control limits.

The percent completeness was within the usability criteria of 90 percent. There were five instances where the sampler did not operate for a sufficient amount of time (less than four hours). In addition, there were eight instances in which the sampler time of operation was outside of the mean and standard deviation range (24 hours,  $\pm 15\%$ ) and three occasions in which the flow rate was outside the tolerance limits (calibrated flow rate,  $\pm 5\text{ft}^3/\text{minute}$ ). The percent completeness for this quarter was 94.8%.

### 3.6 CORRECTIVE ACTION

The following corrective actions were performed during the fourth quarter air monitoring sampling program for HV-1, HV-2, HV-3, HV-4, HV-6 and HV-7.

- HV-1  
November 12, Dickson chart recorder replaced, calibration performed and flow rate adjusted.
- HV-2  
October 24, GFCI outlet on utility pole reset.  
November 28, New motor installed, calibration performed and flow rate adjusted.
- HV-3  
October 24, GFCI outlet on utility pole reset.  
October 30, GFCI outlet on utility pole reset.  
November 5, GFCI outlet on utility pole reset.  
November 12, GFCI outlet on utility pole reset.  
November 14, GFCI outlet on utility pole reset.  
November 20, Electrical short in decontamination pad sump pump repaired (shared GFCI outlet with HV-3).  
December 11, Quarterly calibration performed and flow rate adjusted.
- HV-4  
October 24, GFCI outlet on utility pole reset.  
December 4, New motor installed, calibration performed and flow rate adjusted.

- HV-6  
December 18, Quarterly calibration performed and flow rate adjusted.
- HV-7  
October 3, Rebuilt motor installed, calibration performed and flow rate adjusted.  
October 12, Rebuilt motor installed, calibration performed and flow rate adjusted.  
October 15, New electrical extension cord installed. Rebuilt motor installed, calibration performed and flow rate adjusted.  
October 24, New motor installed, calibration performed and flow rate adjusted.

Other corrective action included adjusting the flow rate for the high-volume samplers when the actual flow rate was not consistent with the calibrated flow rate, the installation of new ink pens and minor adjustments to the Dickson recorders. Refer to the Air Monitoring Program Checklists (Appendix E) for more detailed descriptions and dates of the corrective actions performed.

#### 4.0 CLIMATOLOGICAL DATA

Climatological data are collected at the Site by way of an on-site weather station and the Northeast Regional Climate Center (NRCC). The Site weather station consists of a meteorological monitoring system manufactured by Met One Northwest, Grants Pass, Oregon and is located next to the main support trailer (Figure 1). This weather station provides the daily average temperature (°C) and the barometric pressure (in of Hg). When the site weather station is not recording data (due to electrical surges, power failures, etc.), daily average temperatures are obtained from the NRCC for the Wilkes Barre-Scranton Airport in Avoca, Pennsylvania. Wind speed and direction data are also obtained from the NRCC. The wind speed is recorded in miles per hour, while the direction is recorded in degrees. The direction recorded is the direction from which the wind is blowing. The Wilkes Barre-Scranton Airport is approximately 10 miles from the Site.

The wind speed and direction data for this quarter are presented on Table 2. The climatological data for the fourth quarter were obtained by AGC directly from the Site Weather Station and the Northeast Regional Climate Center. Ambient temperature charts are presented in Appendix F.

## 5.0 DATA SUMMARY

Data for October, November, and December 2007 are presented in Table 1. The data from HV-3 on October 14, October 20, November 7 and November 19, 2007; and HV-4 on October 20, 2007 are considered unusable due to insufficient run time. The sample run times for HV-7 on October 8, October 14 and October 20, 2007; HV-4 on October 14 and December 1, 2007; HV-3 on October 26 and November 1, 2007; and HV-2 on November 25, 2007 were outside the 15% time of operation tolerance limit; the sample concentrations are considered estimated. The flow rate for HV-7 on October 20, 2007; and HV-3 on December 19 and December 25, 2007 were outside the 5ft<sup>3</sup>/minute calibrated flow rate; the sample concentrations are considered estimated. All other results reported are acceptable as presented.

The range and average lead results for the 4th Quarter 2007 data are as follows:

- Background (HV-7)

Range	0.002 - 0.015 $\mu\text{g}/\text{m}^3$
Average	0.007 $\mu\text{g}/\text{m}^3$
  
- Upwind (HV-4 and HV-6)

Range	0.001 - 0.016 $\mu\text{g}/\text{m}^3$
Average	0.006 $\mu\text{g}/\text{m}^3$
  
- Downwind (HV-1, HV-2 and HV-3)

Range	0.001 - 0.015 $\mu\text{g}/\text{m}^3$
Average	0.006 $\mu\text{g}/\text{m}^3$

During the 4th Quarter 2007, all results were well below the National Ambient Air Quality Lead Standard of 1.5  $\mu\text{g}/\text{m}^3$ .

# **TABLES**

TABLE 1  
AIR MONITORING RESULTS SUMMARY  
4TH QUARTER - OCTOBER 2007

Sample Date	Collection Date	Sample Location	Filter Number	Timer Initial	Timer Final	Timer Units	Total Time (min)	Flow Rate (ft3/min)	Total Sample (m3)	Lead Content (µg)	Blank Value (µg)	Corrected Lead Content (µg)	Total Lead (µg/m3)	Q
10/2/2007	10/3/2007	1	8020890	22379.11	22402.8	hrs	1421.4	45	1811.47	5.6	2.0 U	5.6	0.003	
10/2/2007	10/3/2007	2	8020891	7721.2	9106.8	min	1385.6	45	1765.85	6.6	2.0 U	6.6	0.004	
10/2/2007	10/3/2007	3	8020892	20525.9	21965.0	min	1439.1	45	1834.03	5.3	2.0 U	5.3	0.003	
10/2/2007	10/3/2007	4	8020893	4222.92	4246.8	hrs	1433.4	45	1826.77	6.4	2.0 U	6.4	0.004	
10/2/2007	10/3/2007	6	8020894	88822.2	90282.3	min	1460.1	45	1860.80	5.4	2.0 U	5.4	0.003	
10/2/2007	10/3/2007	7	8020895	17631.92	17655.8	hrs	1431.6	45	1824.47	8.5	2.0 U	8.5	0.005	
10/8/2007	10/12/2007	1	8020888	22402.8	22427.1	hrs	1459.8	45	1860.41	11.2	2.0 U	11.2	0.006	
10/8/2007	10/12/2007	2	8020887	9106.8	10568.5	min	1461.7	45	1862.83	13.5	2.0 U	13.5	0.007	
10/8/2007	10/12/2007	3	8020886	21965.0	23399.8	min	1434.8	45	1828.55	12.9	2.0 U	12.9	0.007	
10/8/2007	10/12/2007	4	8020885	4246.8	4270.7	hrs	1434.0	45	1827.53	16.2	2.0 U	16.2	0.009	
10/8/2007	10/12/2007	6	8020884	90282.3	91806.3	min	1524.0	45	1942.23	14.4	2.0 U	14.4	0.007	
10/8/2007	10/12/2007	7	8020883	17655.8	17680.1	hrs	315.0	45	401.45	3.0	2.0 U	3	0.007	2
10/14/2007	10/15/2007	1	8020877	22427.1	22451.0	hrs	1430.4	45	1822.94	8.0	2.0 U	8	0.004	
10/14/2007	10/15/2007	2	8020878	568.5	1503.6	min	1440.0	45	1835.18	11.0	2.0 U	11	0.006	
10/14/2007	10/15/2007	3	8020879	23399.8	23567.6	min	167.8	45	213.85	ND	2.0 U	ND	NC	1
10/14/2007	10/15/2007	4	8020880	4270.7	4284.2	hrs	808.8	45	1030.76	7.3	2.0 U	7.3	0.007	2
10/14/2007	10/15/2007	6	8020881	91806.3	93253.1	min	1446.8	45	1843.85	7.9	2.0 U	7.9	0.004	
10/14/2007	10/15/2007	7	8020882	17680.1	17704.7	hrs	960.0	45	1223.45	8.3	2.0 U	8.3	0.007	2
10/20/2007	10/24/2007	1	8020871	22451.0	22475.3	hrs	1458.6	45	1858.88	7.0	2.0 U	7	0.004	
10/20/2007	10/24/2007	2	8020872	1503.6	2951.6	min	1448.0	45	1845.37	9.2	2.0 U	9.2	0.005	
10/20/2007	10/24/2007	3	8020873	23567.6	23567.6	min	0.0	45	0.00	ND	2.0 U	ND	NC	1
10/20/2007	10/24/2007	4	8020874	4284.2	4284.2	hrs	0.0	45	0.00	ND	2.0 U	ND	NC	1
10/20/2007	10/24/2007	6	8020875	93253.1	94704.8	min	1451.7	45	1850.09	9.7	2.0 U	9.7	0.005	
10/20/2007	10/24/2007	7	8020876	17704.7	17729.1	hrs	1200.0	45	1529.32	6.2	2.0 U	6.2	0.004	2,3
10/26/2007	10/30/2007	1	8020865	22475.3	22499.6	hrs	1456.2	45	1855.82	4.2	2.0 U	4.2	0.002	
10/26/2007	10/30/2007	2	8020866	2951.6	4400.5	min	1448.9	45	1846.52	4.4	2.0 U	4.4	0.002	
10/26/2007	10/30/2007	3	8020867	23567.6	24583.3	min	1015.7	45	1294.44	3.9	2.0 U	3.9	0.003	2
10/26/2007	10/30/2007	4	8020868	4284.2	4308.1	hrs	1433.4	45	1826.77	6.7	2.0 U	6.7	0.004	
10/26/2007	10/30/2007	6	8020869	94704.8	96172.4	min	1467.6	45	1870.35	4.2	2.0 U	4.2	0.002	
10/26/2007	10/30/2007	7	8020870	17729.1	17753.4	hrs	1457.4	45	1857.35	4.6	2.0 U	4.6	0.002	

Notes:

Q - Qualifier.

U / ND - The analyte is not detected.

Timer Units are minutes (min) or hours (hrs).

1 Insufficient sample run time.

2 Sample run time outside the 15 % time of operation tolerance limits.

3 Flow rate was outside the 5ft<sup>3</sup>/minute calibrated flow rate.

NC - Not calculable

TABLE 1 (continued)  
AIR MONITORING RESULTS SUMMARY  
4TH QUARTER - NOVEMBER 2007

Sample Date	Collection Date	Sample Location	Filter Number	Timer Initial	Timer Final	Timer Units	Total Time (min)	Flow Rate (ft3/min)	Total Sample (m3)	Lead Content (µg)	Blank Value (µg)	Corrected Lead Content (µg)	Total Lead (µg/m3)	Q
11/1/2007	11/5/2007	1	8020859	22499.55	22524.2	hrs	1477.2	45	1882.59	6.2	2.0 U	6.2	0.003	2
11/1/2007	11/5/2007	2	8020860	4400.5	5886.4	min	1485.9	45	1893.68	7.8	2.0 U	7.8	0.004	
11/1/2007	11/5/2007	3	8020861	24583.3	25340.2	min	756.9	45	964.62	5.1	2.0 U	5.1	0.005	
11/1/2007	11/5/2007	4	8020862	4308.08	4332.0	hrs	1433.4	45	1826.77	7.5	2.0 U	7.5	0.004	
11/1/2007	11/5/2007	6	8020863	96172.4	97653.9	min	1481.5	45	1888.07	7.8	2.0 U	7.8	0.004	
11/1/2007	11/5/2007	7	8020864	17753.41	17778.2	hrs	1486.2	45	1894.06	11.0	2.0 U	11	0.006	
11/7/2007	11/12/2007	1	8020853	22524.2	22547.8	hrs	1414.8	45	1803.06	2.6	2.0 U	2.6	0.001	
11/7/2007	11/12/2007	2	8020854	5886.4	7326.0	min	1439.6	45	1834.67	3.4	2.0 U	3.4	0.002	
11/7/2007	11/12/2007	3	8020855	25340.2	25340.2	min	0.0	45	0.00	ND	2.0 U	ND	NC	
11/7/2007	11/12/2007	4	8020856	4332.0	4355.9	hrs	1433.4	45	1826.77	3.9	2.0 U	3.9	0.002	
11/7/2007	11/12/2007	6	8020857	97653.9	99159.4	min	1505.5	45	1918.65	4.2	2.0 U	4.2	0.002	
11/7/2007	11/12/2007	7	8020858	17778.2	17802.0	hrs	1430.4	45	1822.94	5.0	2.0 U	5	0.003	
11/13/2007	11/14/2007	1	8020847	22547.8	22571.3	hrs	1415.4	45	1803.83	10.5	2.0 U	10.5	0.006	
11/13/2007	11/14/2007	2	8020848	7326.0	8751.6	min	1425.6	45	1816.83	10.9	2.0 U	10.9	0.006	
11/13/2007	11/14/2007	3	8020849	25340.2	26695.7	min	1355.5	45	1727.49	9.1	2.0 U	9.1	0.005	
11/13/2007	11/14/2007	4	8020850	4355.9	4379.8	hrs	1434.0	45	1827.53	10.8	2.0 U	10.8	0.006	
11/13/2007	11/14/2007	6	8020851	99159.4	100578.1	min	1418.7	45	1808.03	9.1	2.0 U	9.1	0.005	
11/13/2007	11/14/2007	7	8020852	17802.0	17825.8	hrs	1425.6	45	1816.83	11.8	2.0 U	11.8	0.006	
11/19/2007	11/20/2007	1	8020846	22571.3	22595.6	hrs	1455.6	45	1855.06	2.9	2.0 U	2.9	0.002	
11/19/2007	11/20/2007	2	8020845	8751.6	10193.2	min	1441.6	45	1837.22	2.1	2.0 U	2.1	0.001	
11/19/2007	11/20/2007	3	8020844	26695.7	26695.7	min	0.0	45	0.00	ND	2.0 U	ND	NC	
11/19/2007	11/20/2007	4	8020843	4379.8	4403.7	hrs	1433.4	45	1826.77	2.7	2.0 U	2.7	0.001	
11/19/2007	11/20/2007	6	8020842	578.1	2061.3	min	1483.2	45	1890.23	3.1	2.0 U	3.1	0.002	
11/19/2007	11/20/2007	7	8020841	17825.8	17850.3	hrs	1471.8	45	1875.71	3.6	2.0 U	3.6	0.002	
11/25/2007	11/28/2007	1	8020835	22595.6	22620.4	hrs	1490.4	45	1899.41	17.2	2.0 U	17.2	0.009	2
11/25/2007	11/28/2007	2	8020836	193.2	1218.6	min	1025.4	45	1306.80	10.5	2.0 U	10.5	0.008	
11/25/2007	11/28/2007	3	8020837	26695.7	28096.1	min	1400.4	45	1784.71	15.8	2.0 U	15.8	0.009	
11/25/2007	11/28/2007	4	8020838	4403.7	4427.5	hrs	1433.4	45	1826.77	17.0	2.0 U	17	0.009	
11/25/2007	11/28/2007	6	8020839	2061.3	3612.4	min	1551.1	45	1976.77	19.4	2.0 U	19.4	0.010	
11/25/2007	11/28/2007	7	8020840	17850.3	17875.3	hrs	1498.8	45	1910.12	23.6	2.0 U	23.6	0.012	

Notes:

Q - Qualifier.

U / ND - The analyte is not detected.

Timer Units are minutes (min) or hours (hrs).

1 Insufficient sample run time.

2 Sample run time outside the 15 % time of operation tolerance limits.

3 Flow rate was outside the 5ft<sup>3</sup>/minute calibrated flow rate.

NC - Not calculable

TABLE 1 (continued)  
AIR MONITORING RESULTS SUMMARY  
4TH QUARTER - DECEMBER 2007

Sample Date	Collection Date	Sample Location	Filter Number	Timer Initial	Timer Final	Timer Units	Total Time (min)	Flow Rate (ft <sup>3</sup> /min)	Total Sample (m3)	Lead Content (µg)	Blank Value (µg)	Corrected Lead Content (µg)	Total Lead (µg/m3)	Q
12/1/2007	12/4/2007	1	8020829	22620.4	22644.7	hrs	1455.6	45	1855.06	6.2	2.0 U	6.2	0.003	2
12/1/2007	12/4/2007	2	8020830	1218.6	2670.1	min	1451.5	45	1849.84	5.6	2.0 U	5.6	0.003	
12/1/2007	12/4/2007	3	8020831	28096.1	29552.4	min	1456.3	45	1855.95	5.4	2.0 U	5.4	0.003	
12/1/2007	12/4/2007	4	8020832	4427.5	4451.4	hrs	360.0	45	458.79	3.5	2.0 U	3.5	0.008	
12/1/2007	12/4/2007	6	8020833	3612.4	5050.5	min	1438.1	45	1832.76	4.9	2.0 U	4.9	0.003	
12/1/2007	12/4/2007	7	8020834	17875.3	17899.3	hrs	1439.4	45	1834.41	9.2	2.0 U	9.2	0.005	
12/7/2007	12/11/2007	1	8020822	22644.7	22668.6	hrs	1435.8	45	1829.83	26.0	2.0 U	26	0.014	
12/7/2007	12/11/2007	2	8020823	2670.1	3641.7	min	1395.0	45	1777.83	27.0	2.0 U	27	0.015	
12/7/2007	12/11/2007	3	8020824	29552.4	31014.7	min	1462.3	45	1863.60	23.1	2.0 U	23.1	0.012	
12/7/2007	12/11/2007	4	8020825	4451.4	4475.3	hrs	1434.0	45	1827.53	24.8	2.0 U	24.8	0.014	
12/7/2007	12/11/2007	6	8020826	5050.5	6480.2	min	1429.7	45	1822.05	28.8	2.0 U	28.8	0.016	
12/7/2007	12/11/2007	7	8020827	17899.3	17923.6	hrs	1459.2	45	1859.65	27.5	2.0 U	27.5	0.015	
12/13/2007	12/18/2007	1	8020816	22668.6	22692.6	hrs	1437.6	45	1832.12	11.6	2.0 U	11.6	0.006	
12/13/2007	12/18/2007	2	8020817	3641.7	5128.0	min	1486.3	45	1894.19	12.9	2.0 U	12.9	0.007	
12/13/2007	12/18/2007	3	8020818	31014.7	32417.3	min	1402.6	45	1787.52	12.4	2.0 U	12.4	0.007	
12/13/2007	12/18/2007	4	8020819	4475.3	4499.2	hrs	1433.4	45	1826.77	20.1	2.0 U	20.1	0.011	
12/13/2007	12/18/2007	6	8020820	6480.2	7971.7	min	1491.5	45	1900.81	11.6	2.0 U	11.6	0.006	
12/13/2007	12/18/2007	7	8020821	17923.6	17947.8	hrs	1450.2	45	1848.18	16.8	2.0 U	16.8	0.009	
12/19/2007	12/24/2007	1	8020810	22692.6	22716.8	hrs	1454.4	45	1853.53	23.2	2.0 U	23.2	0.013	
12/19/2007	12/24/2007	2	8020811	5128.0	6490.7	min	1362.7	45	1736.67	24.1	2.0 U	24.1	0.014	
12/19/2007	12/24/2007	3	8020812	32417.3	33877.5	min	1460.2	45	1860.92	24.8	2.0 U	24.8	0.013	
12/19/2007	12/24/2007	4	8020813	4499.2	4523.1	hrs	1433.4	45	1826.77	16.8	2.0 U	16.8	0.009	
12/19/2007	12/24/2007	6	8020814	7971.7	9451.3	min	1479.6	45	1885.65	26.5	2.0 U	26.5	0.014	
12/19/2007	12/24/2007	7	8020815	17947.8	17971.6	hrs	1429.2	45	1821.42	27.6	2.0 U	27.6	0.015	
12/25/2007	12/30/2007	1	8020804	22716.8	22741.0	hrs	1452.6	45	1851.24	5.6	2.0 U	5.6	0.003	3
12/25/2007	12/30/2007	2	8020805	6490.7	7914.7	min	1424.0	45	1814.79	4.3	2.0 U	4.3	0.002	
12/25/2007	12/30/2007	3	8020806	33877.5	35312.4	min	1434.9	45	1828.68	4.3	2.0 U	4.3	0.002	
12/25/2007	12/30/2007	4	8020807	4523.1	4547.0	hrs	1434.0	45	1827.53	5.8	2.0 U	5.8	0.003	
12/25/2007	12/30/2007	6	8020808	9451.3	10924.5	min	1473.2	45	1877.49	5.3	2.0 U	5.3	0.003	
12/25/2007	12/30/2007	7	8020809	17971.6	17996.5	hrs	1492.8	45	1902.47	6.1	2.0 U	6.1	0.003	
12/31/2007	1/4/2008	1	8021398	22741.0	22765.2	hrs	1450.8	45	1848.94	17.3	2.0 U	17.3	0.009	
12/31/2007	1/4/2008	2	8021399	7914.7	9385.6	min	1470.9	45	1874.56	16.4	2.0 U	16.4	0.009	
12/31/2007	1/4/2008	3	8021400	35312.4	36738.8	min	1426.4	45	1817.85	15.7	2.0 U	15.7	0.009	
12/31/2007	1/4/2008	4	8020801	4547.0	4570.9	hrs	1434.6	45	1828.30	15.4	2.0 U	15.4	0.008	
12/31/2007	1/4/2008	6	8020802	10924.5	12414.2	min	1489.7	45	1898.52	15.3	2.0 U	15.3	0.008	
12/31/2007	1/4/2008	7	8020803	17996.5	18019.5	hrs	1381.2	45	1760.24	15.6	2.0 U	15.6	0.009	

Notes:

Q - Qualifier.

U / ND - The analyte is not detected.

Timer Units are minutes (min) or hours (hrs).

1 Insufficient sample run time.

2 Sample run time outside the 15 % time of operation tolerance limits.

3 Flow rate was outside the 5ft<sup>3</sup>/minute calibrated flow rate.

NC - Not calculable

TABLE 2  
WIND SPEED AND DIRECTION SUMMARY  
4TH QUARTER 2007

DATE SAMPLED	WINDSPEED (MPH)	WIND DIRECTION (DEGREES)
10/2/2007	4.3	170
10/8/2007	5.2	227
10/14/2007	6.0	265
10/20/2007	8.4	230
10/26/2007	5.3	41
11/1/2007	4.7	273
11/7/2007	9.9	306
11/13/2007	5.8	292
11/19/2007	3.0	38
11/25/2007	3.3	233
12/1/2007	11.2	340
12/7/2007	3.6	200
12/13/2007	1.6	72
12/19/2007	2.1	232
12/25/2007	4.9	259
12/31/2007	6.2	225

The degree and compass point correlations are:

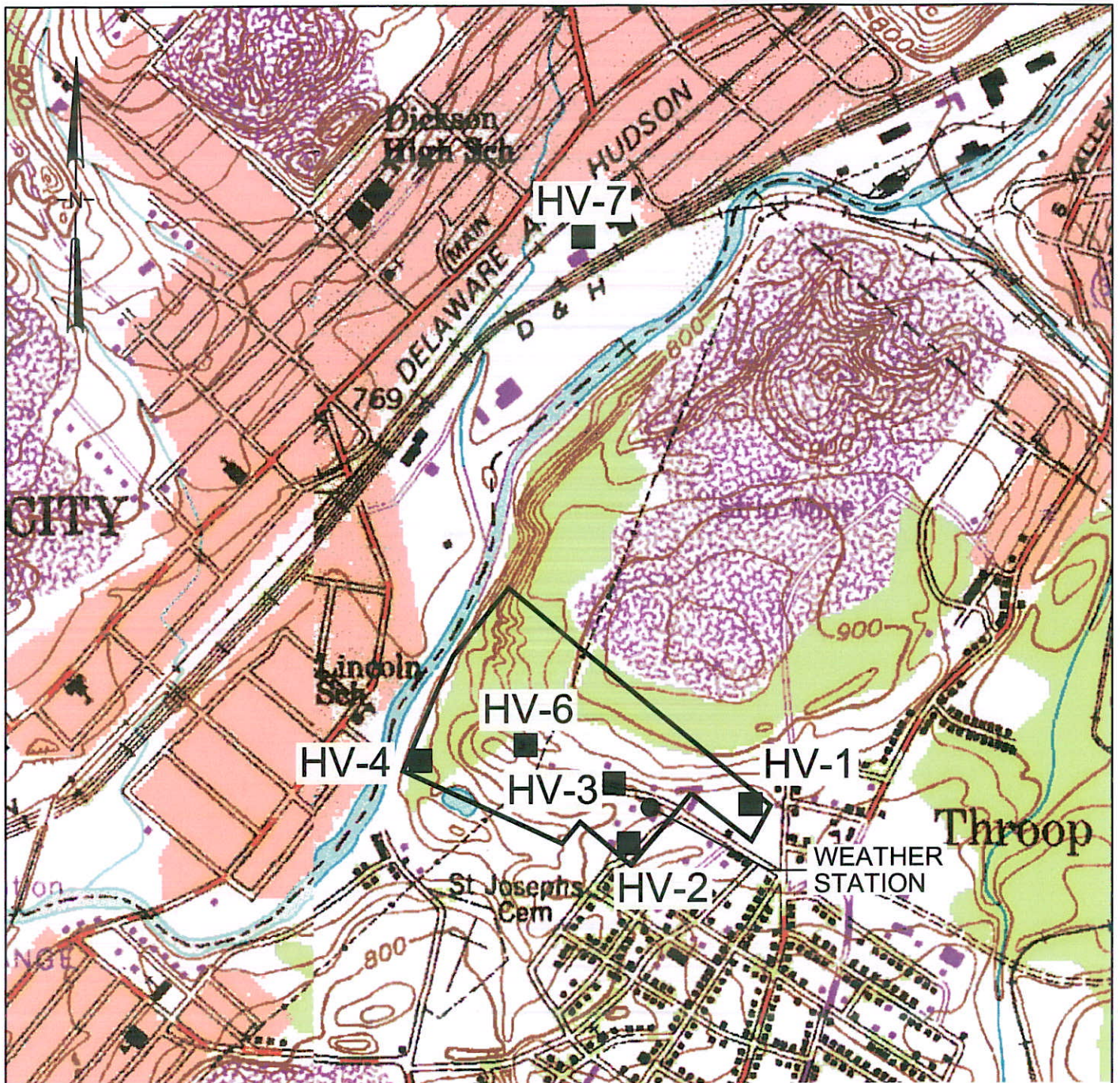
0 degrees	-	North
45 degrees	-	Northeast
90 degrees	-	East
135 degrees	-	Southeast
180 degrees	-	South
225 degrees	-	Southwest
270 degrees	-	West
315 degrees	-	Northwest

Note:

Wind speed is an average daily value.

Wind direction is a daily average of 24 hourly values. Each hourly value is a 2-minute average taken approximately 10 minutes before the top of the hour and is the direction the wind is blowing from.

# FIGURE



LEGEND

■ - HIGH VOLUME SAMPLER LOCATION

Basemap Source:  
 U.S.G.S. 7.5 minute quadrangles  
 of Olyphant and Scranton Pennsylvania,  
 dated 1946, photorevised 1983.



**MARJOL BATTERY SITE**

THROOP BOROUGH, LACKAWANNA COUNTY, PENNSYLVANIA

Scale: 1"=1000'
Originated By: A.W.D.
Drawn By: S.M.F.
Checked By: A.W.D.
Project Mgr: B.L.F.
Dwg No. 92002-17

**HIGH VOLUME SAMPLER LOCATIONS**



**Advanced GeoServices Corp.**  
 1055 Andrew Drive, Suite A  
 West Chester, Pennsylvania 19380  
 (610) 840-9100  
 FAX: (610) 840-9199

Project No.  
92-002-MP

FIGURE: 1

## **APPENDIX A**

# **HI-VOLUME SAMPLER CALIBRATION WORKSHEETS**

**APPENDIX B**

**ORIFICE TRANSFER STANDARD CERTIFICATION  
WORKSHEETS**



TISCH ENVIROMENTAL, INC.  
 145 SOUTH MIAMI AVE.  
 VILLAGE OF CLEVES, OH 45002  
 513.467.9000  
 877.263.7610 TOLL FREE  
 513.467.9009 FAX  
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT

ORIFICE TRANSFER STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - Feb 13, 2007 Rootsmeter S/N 9833620 Ta (K) - 293  
 Operator Tisch Orifice I.D. - 81K Pa (mm) - 749.3

PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER	ORFICE
					DIFF Hg (mm)	DIFF H2O (in.)
1	NA	NA	1.00	1.3480	3.2	2.00
2	NA	NA	1.00	0.9520	6.3	4.00
3	NA	NA	1.00	0.8530	7.8	5.00
4	NA	NA	1.00	0.8130	8.5	5.50
5	NA	NA	1.00	0.6730	12.4	8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)	Va	(x axis) Qa	(y axis)
0.9984	0.7407	1.4162	0.9957	0.7386	0.8843
0.9943	1.0445	2.0027	0.9916	1.0416	1.2507
0.9922	1.1632	2.2391	0.9895	1.1600	1.3983
0.9913	1.2194	2.3484	0.9886	1.2160	1.4665
0.9861	1.4652	2.8323	0.9834	1.4612	1.7687
Qstd slope (m) = 1.95518			Qa slope (m) = 1.22430		
intercept (b) = -0.03501			intercept (b) = -0.02186		
coefficient (r) = 0.99997			coefficient (r) = 0.99997		
y axis = SQRT[H2O(Pa/760) (298/Ta)]			y axis = SQRT[H2O(Ta/Pa)]		

CALCULATIONS

$$Vstd = \text{Diff. Vol} [(Pa - \text{Diff. Hg}) / 760] (298 / Ta)$$

$$Qstd = Vstd / \text{Time}$$

$$Va = \text{Diff Vol} [(Pa - \text{Diff Hg}) / Pa]$$

$$Qa = Va / \text{Time}$$

For subsequent flow rate calculations:

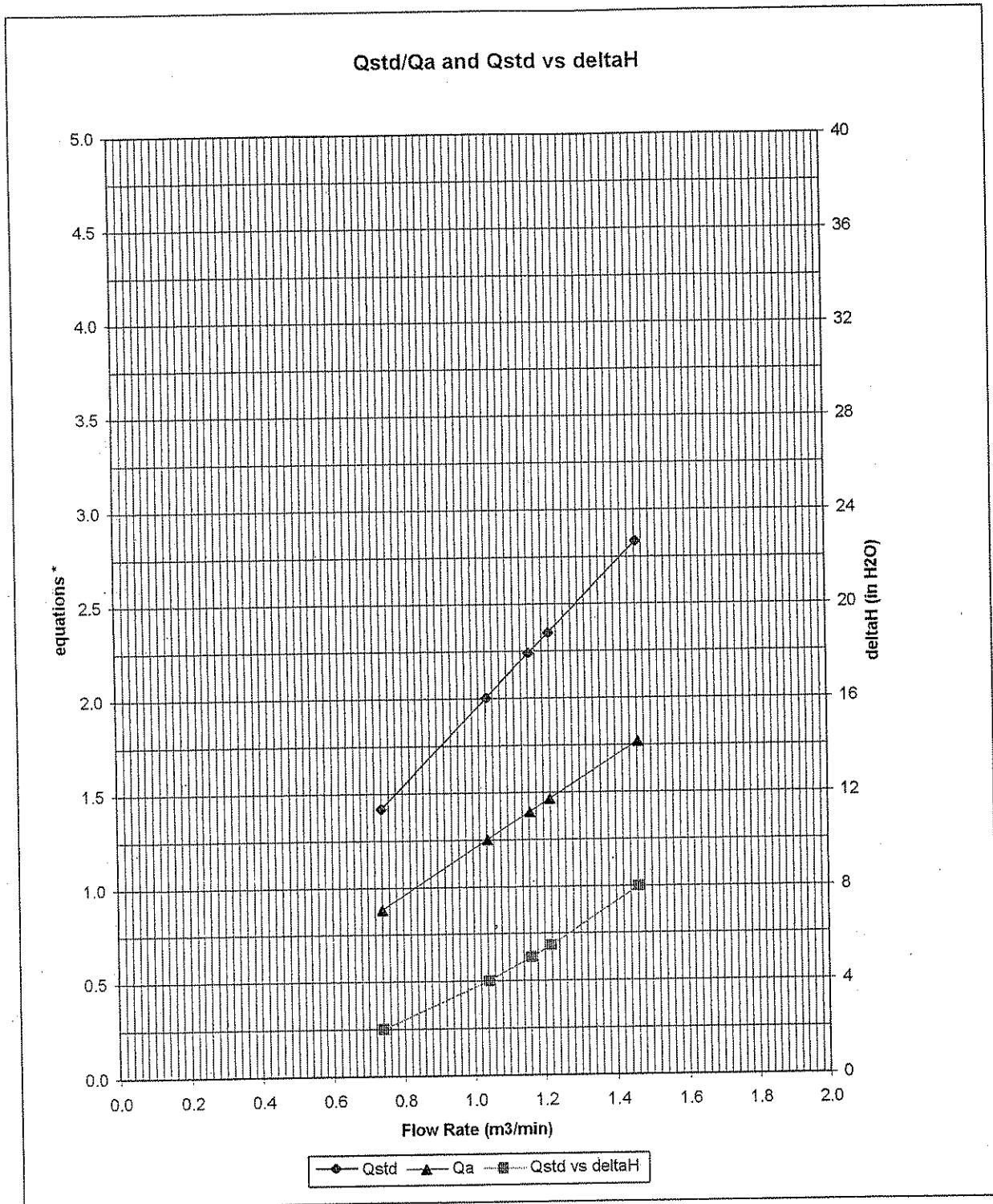
$$Qstd = 1/m \{ [\text{SQRT}(\text{H2O}(\text{Pa}/760) (298/\text{Ta}))] - b \}$$

$$Qa = 1/m \{ [\text{SQRT} \text{H2O}(\text{Ta}/\text{Pa})] - b \}$$



TISCH ENVIROMENTAL, INC.  
 145 SOUTH MIAMI AVE.  
 VILLAGE OF CLEVES, OH 45002  
 513.467.9000  
 877.263.7610 TOLL FREE  
 513.467.9009 FAX  
 WWW.TISCH-ENV.COM

AIR POLLUTION MONITORING EQUIPMENT



\* y-axis equations:

Qstd series: 
$$\sqrt{\Delta H \left( \frac{P_a}{P_{std}} \right) \left( \frac{T_{std}}{T_a} \right)}$$

Qa series: 
$$\sqrt{(\Delta H (T_a / P_a))}$$

# 81K

## **APPENDIX C**

### **FIRST ANALYTICAL LABORATORIES DATA**

## **OCTOBER 2007 SAMPLES**

## **NOVEMBER 2007 SAMPLES**

## **DECEMBER 2007 SAMPLES**

**APPENDIX D**

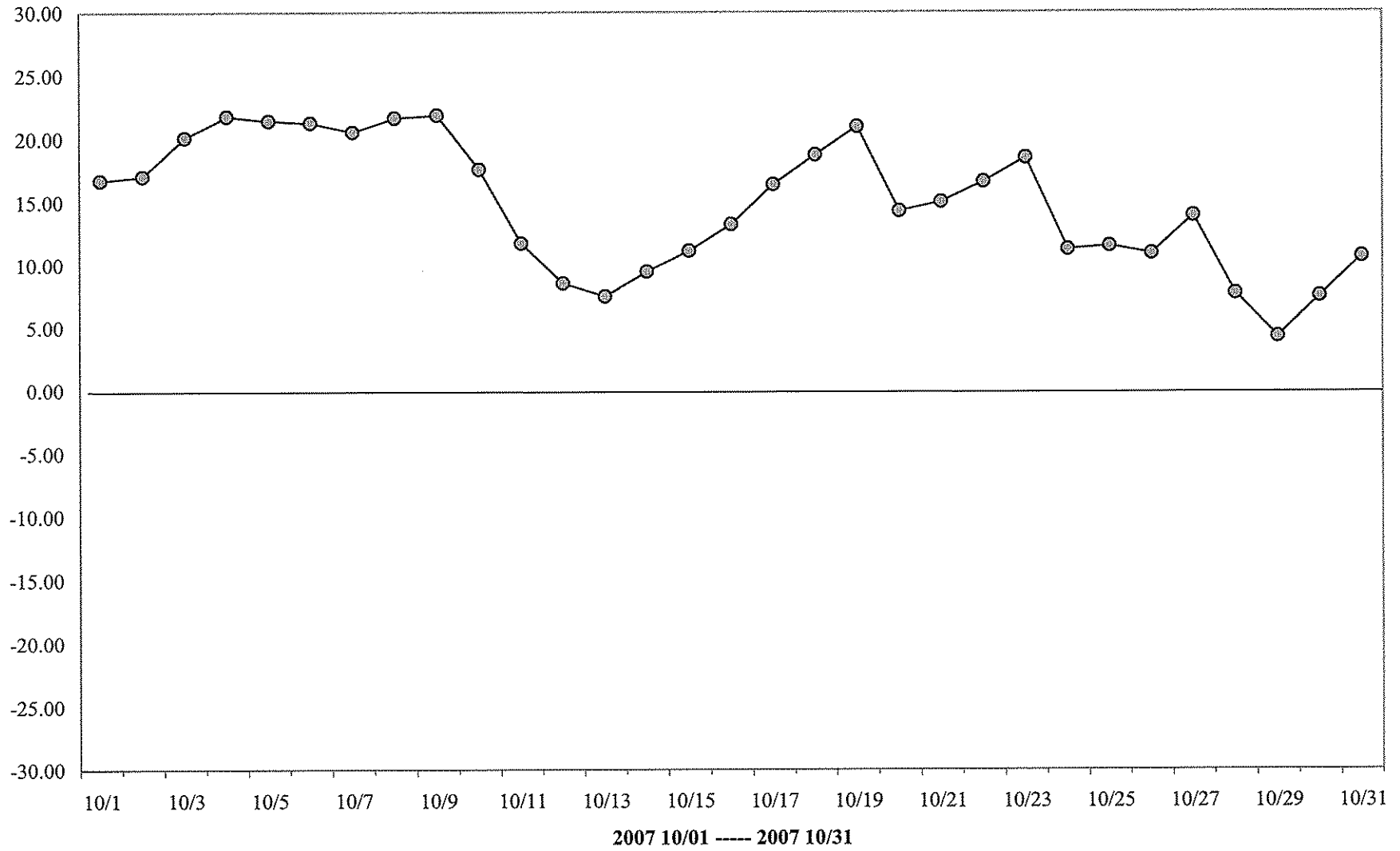
**DATA EVALUATION CHECKLISTS**

**APPENDIX E**

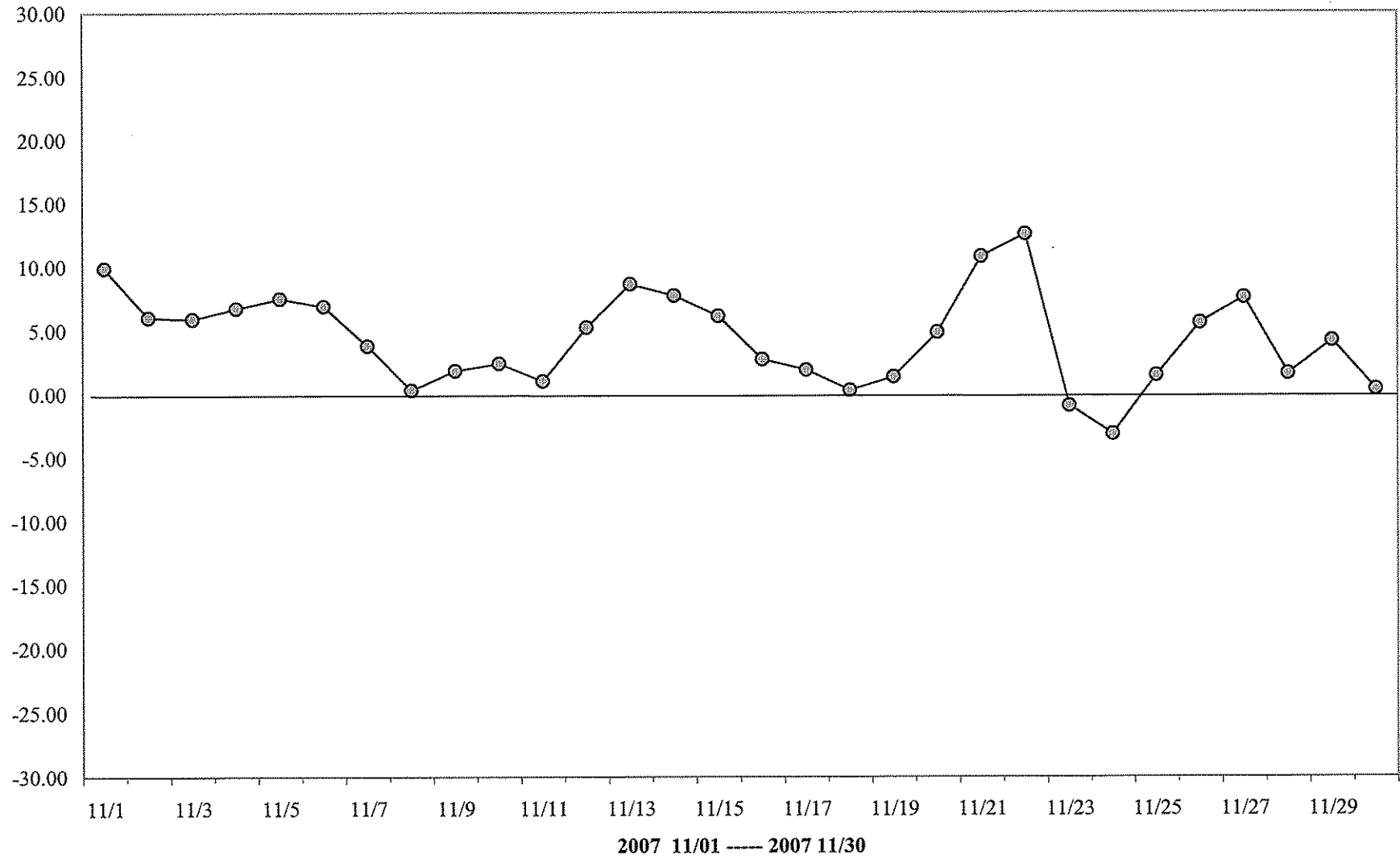
**AIR MONITORING PROGRAM CHECKLISTS**

**APPENDIX F**  
**CLIMATOLOGICAL DATA**

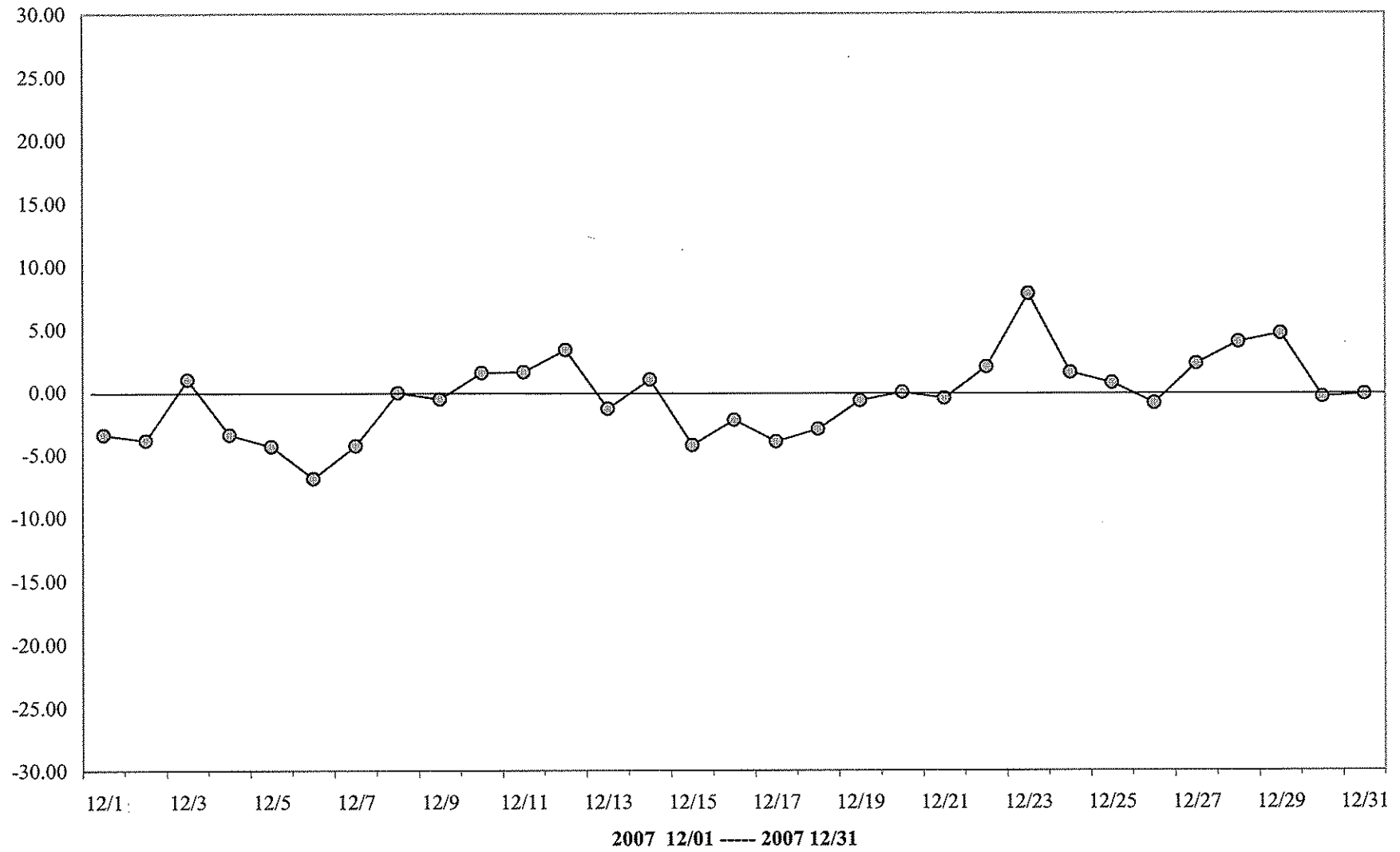
### AT (Deg C) TREND CHART



### AT (Deg C) TREND CHART



### AT (Deg C) TREND CHART



# **PADEP AIR RESULTS**

**FOURTH QUARTER 2007  
SITE STORMWATER MANAGEMENT BASIN  
PERFORMANCE MONITORING REPORT  
MARJOL BATTERY SITE  
THROOP, PENNSYLVANIA**

May 15, 2008

92-002-103

Ms. Maureen Essenthier (3WC22)  
USEPA - Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

RE: Marjol Battery Site Stormwater Management Basin Performance Monitoring  
2007 Fourth Quarter Sample Results

Dear Ms. Essenthier:

Advanced GeoServices Corp. (AGC) on behalf of Gould Electronics Inc. (Gould) is pleased to present the 2007 Fourth Quarter results for the Marjol Battery Site (Site) located in Throop Borough, Pennsylvania. Performance monitoring requirements are outlined in the Site Stabilization and Stormwater Management Plan and were amended April 1, 1991 in the Lackawanna River and Sedimentation Basin Monitoring Report, and in the Responses to United States Environmental Protection Agency (USEPA), Pennsylvania Department of Environmental Protection (PADEP) and Throop Borough comments for the RCRA Facility Investigation Report, dated October 22, 1993 in concurrence with the USEPA. The performance monitoring includes the collection of a stormwater sample taken from the Stormwater Management Basin (SMB) prior to discharging the detained stormwater, and surface water sampling at four locations in the Lackawanna River during the SMB discharge event. In addition, sediment samples are collected from the SMB and the Lackawanna River. The sample locations are shown on the attached Figure SMBP-1.

#### Surface Water and Stormwater Sampling Results

The Fourth Quarter stormwater basin and surface water samples were collected on October 15, 2007 and analyzed for total and dissolved lead by EPA Method 200.8. The surface water location T2-EN-1985 (SMB [near riser pipe]) had a total lead result of 5.9 micrograms per liter ( $\mu\text{g/L}$ ) and a dissolved lead result of 2.5  $\mu\text{g/L}$ . Total and dissolved lead concentrations were below the detection limit of 2  $\mu\text{g/L}$  for all other sample locations.

The results are summarized in Table 1. The validated SMB surface water sample results are also presented in the attachment. All total and dissolved lead concentrations were consistent with, or lower than, historical results.

#### Sediment Sampling Results

The Fourth Quarter SMB sediment samples were collected on November 12, 2007 and analyzed for total lead by EPA Method 200.8. All samples were qualified as estimated (J) due to initial



Ms. Maureen Essenthier (3WC22)  
92-002-103  
May 15, 2008  
Page 2 of 2

and continuing calibration percent recoveries outside data validation quality control criteria. The rip-rap channel plunge pool (T2-EN-1994), the last filter berm (T2-EN-1992), and the center of the SMB (T2-EN-1993) sample results were 290 milligrams per kilogram (mg/kg), 13 mg/kg, and 450 mg/kg, respectively. The rip-rap channel plunge pool, the last filter berm, and the SMB discharge riser results are consistent with historic concentrations. A summary of the historic SMB sediment sample results is presented in Table 2. The validated laboratory SMB sediment sample results are also presented in the Attachment.

Sediment samples from the Lackawanna River were collected on November 12, 2007 and analyzed for total lead by EPA Method 200.8. All samples were qualified as estimated (J) due to initial and continuing calibration percent recoveries outside data validation quality control criteria. The background concentrations in the upstream (L54-09/10 and L54-11) and downstream (L54-01) locations ranged from 16 mg/kg to 33 mg/kg and averaged 21 mg/kg. The sample result for the most downstream location was 33 mg/kg (L54-01). Sediment sample results for locations L54-02, L54-03/04, L54-05, L54-06, L54-07, and L54-08, immediately south of the Sulphur Creek and Lackawanna River confluence had lead concentrations ranging from 20 mg/kg to 180 mg/kg, with an average of 56 mg/kg. The lead concentration for sample L54-04 (30 feet downstream of Sulphur Creek) was 180 mg/kg. While this concentration is slightly higher than most of the historical data for this location, similar elevated concentrations have occurred sporadically in the past at this location but have dropped back to normal in subsequent quarters. Lead concentrations at all other locations were consistent with historical data collected from past prior sediment sampling activities. A summary of the Lackawanna River sediment sample results are presented in Table 3. The validated laboratory sediment sample results are also presented in the Attachment.

Please contact the undersigned at 610-840-9145 if you have any questions regarding this data.

Sincerely,

ADVANCED GEOSERVICES

Barbara L. Forslund, P.E.  
Project Manager

BLF:vm

Enclosures

cc: Len Zelinka, PADEP  
James Cronmiller, Gould  
Lisa Ayers, AGC

Throop Borough Council  
Louis Cimini, Throop Borough Solicitor  
Ron Brezinski, PADEP



## **TABLES**



**Table 1**  
**Summary of 2007 Fourth Quarter Surface Water**  
**and Stormwater Sample Results**

2007 4th Quarter Sample Number	Location	Sample Results ( $\mu\text{g/l}$ )	
		Total Lead	Dissolved Lead
T2-EN-1985	Stormwater Management Basin	5.9J	2.5
T2-EN-1987	Boulevard Ave. (= 1900 feet downstream of Sulphur Creek)	<2	<2
T2-EN-1988	680 ft. upstream of Sulphur Creek	<2	<2
T2-EN-1989	1350 ft. upstream of Sulphur Creek	<2	<2
T2-EN-1990	2350 ft. upstream of Sulphur Creek	<2	<2



**Table 2**  
**Summary of SMB Sediment Sampling Results**

	Sample Event	Rip-Rap Channel Plunge Pool Sample Number/Last Filter Berm/Sedimentation Basin Sample Number	Total Lead Concentrations (mg/kg)		
			Rip-Rap Channel Plunge Pool	Last Filter Berm	Sedimentation Basin
1991	1 <sup>st</sup> Quarter	T2-EN-547/T2-EN-548	57	29	(1)
	2 <sup>nd</sup> Quarter	T2-EN-522/T2-EN-551	32	23	(1)
	3 <sup>rd</sup> Quarter	T2-EN-568/T2-EN-569	25	18	(1)
	4 <sup>th</sup> Quarter	T2-EN-1073/T2-EN-1074	180	39	(1)
1992	1 <sup>st</sup> Quarter	NS/NS	NS	NS	(1)
	2 <sup>nd</sup> Quarter	T2-EN-581/T2-EN-580	1500/930	29	(1)
	3 <sup>rd</sup> Quarter	T2-EN-588/T2-EN-587	330	11	(1)
	4 <sup>th</sup> Quarter	T2-EN-1308/T2-EN-1307	1400/1440	20	(1)
1993	1 <sup>st</sup> Quarter	T2-EN-1334/T2-EN-1333	136	12	(1)
	2 <sup>nd</sup> Quarter	T2-EN-1336/T2-EN-1335	443	33	(1)
	3 <sup>rd</sup> Quarter	T2-EN-1352/T2-EN-1353	39	21	(1)
	4 <sup>th</sup> Quarter	T2-EN-1371/T2-EN-1370	4	24	(1)
1994	1 <sup>st</sup> Quarter	T2-EN-1381/T2-EN-1380	690	39	(1)
	2 <sup>nd</sup> Quarter	T2-EN-1395/T2-EN-1396	970	15	(1)
	3 <sup>rd</sup> Quarter	T2-EN-1397/T2-EN-1398	236	31	(1)
	4 <sup>th</sup> Quarter	T2-EN-1415/T2-EN-1414	290	36	(1)
1995	1 <sup>st</sup> Quarter	NS/T2-EN-1424	NS	58	(1)
	2 <sup>nd</sup> Quarter	T2-EN-1427/T2-EN-1428	270	16	(1)
	3 <sup>rd</sup> Quarter	T2-EN-1441/T2-EN-1440	1200	19	(1)
	4 <sup>th</sup> Quarter	T2-EN-1443/T2-EN-1442	58.5	27.1	(1)
1996	1 <sup>st</sup> Quarter	T2-EN-1459/T2-EN-1458	93	14	(1)
	2 <sup>nd</sup> Quarter	T2-EN-1466/T2-EN-1467	840	42	(1)
	3 <sup>rd</sup> Quarter	T2-EN-1478/T2-EN-1477	260	28	(1)
	4 <sup>th</sup> Quarter	T2-EN-1492 /T2-EN-1491	400	31	(1)
1997	1 <sup>st</sup> Quarter	T2-EN-1499/T2-EN-1500	1100	17	(1)
	2 <sup>nd</sup> Quarter	T2-EN-1502/T2-EN-1501	440	24	(1)
	3 <sup>rd</sup> Quarter	T2-EN-1513/T2-EN-1512	140	17	(1)
	4 <sup>th</sup> Quarter	----	NS	NS	(1)



**Table 2**  
**Summary of SMB Sediment Sampling Results**  
**(Continued)**

	Sample Event	Rip-Rap Channel Plunge Pool Sample Number/Last Filter Berm/Sedimentation Basin Sample Number	Total Lead Concentrations (mg/kg)		
			Rip-Rap Channel Plunge Pool	Last Filter Berm	Sedimentation Basin
1998	1 <sup>st</sup> Quarter	T2-EN-1533/T2-EN-1532/ T2-EN-1534	2800	120	120
	2 <sup>nd</sup> Quarter	T2-EN-1541/T2-EN-1542/ T2-EN-1543	20	14	210
	3 <sup>rd</sup> Quarter	T2-EN-1601/T2-EN-1600/ T2-EN-1602	340	120	270
	4 <sup>th</sup> Quarter	T2-EN-1648/T2-EN-1647/ T2-EN-1646	320	10	530
1999	1 <sup>st</sup> Quarter	T2-EN-1656/T2-EN-1655/ T2-EN-1657	510	110	190
	2 <sup>nd</sup> Quarter	T2-EN-1660/T2-EN-1659 T2-EN-1661	2700	32	340
	3 <sup>rd</sup> Quarter	T2-EN-1669/T2-EN-1688 T2-EN-1670	12	54	180
	4 <sup>th</sup> Quarter	T2-EN-1682/T2-EN-1681/ T2-EN-1683	48	27	38
2000	1 <sup>st</sup> Quarter	T2-EN-1697/T2-EN-1696/ T2-EN-1698	1930	96	180
	2 <sup>nd</sup> Quarter	T2-EN-1711/T2-EN-1710/ T2-EN-1709 (T2-EN-1712)	310	21	150 (130)
	3 <sup>rd</sup> Quarter	T2-EN-1714/T2-EN-1713 T2-EN-1715	220	39	190
	4 <sup>th</sup> Quarter	T2-EN-1725/T2-EN-1724 (T2-EN-1735)/T2-EN-1726	96	39 (21)	890
2001	1 <sup>st</sup> Quarter	T2-EN-1744/T2-EN-1743 T2-EN-1745	2300	140	190
	2 <sup>nd</sup> Quarter	T2-EN-1752/T2-EN-1753 T2-EN-1754	250	14	450
	3 <sup>rd</sup> Quarter	T2-EN-1762/T2-EN-1763 T2-EN-1764	2200	65	280
	4 <sup>th</sup> Quarter	T2-EN-1772/T2-EN-1775 T2-EN-1774	220	200	130



**Table 2**  
**Summary of SMB Sediment Sampling Results**  
**(Continued)**

	Sample Event	Rip-Rap Channel Plunge Pool Sample Number/Last Filter Berm/Sedimentation Basin Sample Number	Total Lead Concentrations (mg/kg)		
			Rip-Rap Channel Plunge Pool	Last Filter Berm	Sedimentation Basin
2002	1 <sup>st</sup> Quarter	T2-EN-1776/T2-EN-1775 T2-EN-1777	3700	300	130
	2 <sup>nd</sup> Quarter	T2-EN-1791/T2-EN-1790 T2-EN-1792	330	46	130
	3 <sup>rd</sup> Quarter	T2-EN-1799/T2-EN-1800 T2-EN-1801	1300	110	220
	4 <sup>th</sup> Quarter	T2-EN-1804/T2-EN-1803 T2-EN-1805	190	19	160
2003	1 <sup>st</sup> Quarter	T2-EN-1819 T2-EN-1818 (T2-EN-1821) T2-EN-1820	1150	150/121	220
	2 <sup>nd</sup> Quarter	T2-EN-1829/T2-EN-1828 T2-EN-1830	490	22	99
	3 <sup>rd</sup> Quarter	T2-EN-1837/T2-EN-1838 T2-EN-1839	100	12	350
	4 <sup>th</sup> Quarter	T2-EN-1848/T2-EN-1847 T2-EN-1846	36	190	130
2004	1 <sup>st</sup> Quarter	T2-EN-1856/T2-EN-1855 T2-EN-1857	59	200	110
	2 <sup>nd</sup> Quarter	T2-EN-1860/T2-EN-1858 T2-EN-1859	64	370	240
	3 <sup>rd</sup> Quarter	T2-EN1876/T2-EN-1875 T2-EN-1874	230	370	160
	4 <sup>th</sup> Quarter	T2-EN-1887/T2-EN-1885 T2-EN-1886	790	44	120
2005	1 <sup>st</sup> Quarter	T2-EN-1890/T2-EN-1888 T2-EN-1889	2300	16	245
	2 <sup>nd</sup> Quarter	T2-EN-1899, T2-EN-1897 T2-EN-1898	2,300	42	170
	3 <sup>rd</sup> Quarter	T2-EN-1908, T2-EN-1906 T2-EN-1907	580	170	210
	4 <sup>th</sup> Quarter	T2-EN-1918, T2-EN-1916 T2-EN-1917	320J	77J	270J



**Table 2  
Summary of SMB Sediment Sampling Results  
(Continued)**

	Sample Event	Rip-Rap Channel Plunge Pool Sample Number/Last Filter Berm/Sedimentation Basin Sample Number	Total Lead Concentrations (mg/kg)		
			Rip-Rap Channel Plunge Pool	Last Filter Berm	Sedimentation Basin
2006	1st Quarter	T2-EN-1927, T2-EN-1925, T2-EN-1926	43	220	180
	2nd Quarter	T2-EN-1930, T2-EN-1928, T2-EN-1929	407	26	205
	3rd Quarter	T2-EN-1939/T2-EN-1937/T2-EN-1938	36.0	95.6	82.8
	4th Quarter	T2-EN-1950/T2-EN-1948 T2-EN-1949	41.8	23.2	140
2007	1st Quarter	T2-EN-1966, T2-EN-1967, T2-EN-19NA	206	232	NS
	2nd Quarter	T2-EN-1969, T2-EN-1967, T2-EN-1968	615	30.6	134
	3rd Quarter	T2-EN-1978, T2-EN-1976, T2-EN-1977	96	77.7	181
	4th Quarter	T2-EN-1994, T2-EN-1992, T2-EN-1993	290J	13J	450J

Notes:

(1) = USEPA did not request sample collection from this location until the 1<sup>st</sup> Quarter of 1998.

NS = Not sampled

**Table 3  
Summary of Lackawanna River Sediment Sample Results**

2007 4th Quarter Sample Number	Sample Location <sup>1</sup>	Depth of Sample (Inch)	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr. <sup>(12)</sup>	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.
			1998	1998	1998	1998	1999	1999	1999	1999	2000	2000	2000	2000	2001	2001	2001	2001	2002	2002	2002	2002	2003	2003	2003	2003	2004	2004	2004	2004
L54-01	= 1600 ft. downstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	37	59	39	31	29	30	17	NS <sup>6</sup>	NS <sup>6</sup>	70	42	24	31	62	23	270	19	27	28	NS <sup>6</sup>	17	25	26	48	31	33	32
L53-02	= 115 ft. downstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	47	21	36	21	28	22	52	NS <sup>6</sup>	NS <sup>6</sup>	25	NS <sup>6</sup>	40	NS <sup>6</sup>	42	33	<56	25	140	66	NS <sup>6</sup>	78	22	28	22	28	24	81
L54-03	= 30 ft. downstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	140J	200J	56	1110 (860) <sup>12</sup>	440	100	415	NS <sup>6</sup>	NS <sup>6</sup>	55	NS <sup>6</sup>	110	270J	58	140	83	25	110J	39	NS <sup>6</sup>	15J	20	64	43	40J	26J	670J
L54-04 <sup>4</sup>	= 30 ft. downstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	430J	430J	89	3474 (490) <sup>12</sup>	710	230	250	NS <sup>6</sup>	NS <sup>6</sup>	91	NS <sup>6</sup>	140	22J	70	180	91	51	46J	45	NS <sup>6</sup>	290J	14	49	29	480J	39J	280J
L54-05	= 45 ft. downstream of Sulphur Creek (at stormwater pipe outfall)	0 - 3	NS <sup>6</sup>	200	130	140	520 (590) <sup>12</sup>	330	170	135	240	160	320	110	140	76	260	46	120	94	470	120	NS <sup>6</sup>	31	820	61	73	130	100	45
L54-06	= 12 ft. downstream of Sulphur Creek (= 10 ft. from east bank of Lackawanna River)	0 - 3	NS <sup>6</sup>	980	145	290	117	190	100	135	NS <sup>6</sup>	NS <sup>6</sup>	94	NS <sup>6</sup>	290	96	110	40	130	41	110	75	NS <sup>6</sup>	51	23	45	24	180	97	40
L54-07	= 12 ft. downstream of Sulphur Creek (center of Lackawanna River)	0 - 3	NS <sup>6</sup>	520	35	16	25	32	22	21	NS <sup>6</sup>	NS <sup>6</sup>	18	NS <sup>6</sup>	29	8	40	47	<40	16	71	53	NS <sup>6</sup>	34	21	60	28	36	22	40
L54-08	= 9 ft. downstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	440	305	80	1430 (1100) <sup>12</sup>	500	190	220	NS <sup>6</sup>	NS <sup>6</sup>	160	NS <sup>6</sup>	160	170	160	71	<60	28	43	210	NS <sup>6</sup>	28	32	340	31	63	34	120
L54-09	= 850 ft. upstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	25	20	29	37	45	19	24	NS <sup>6</sup>	NS <sup>6</sup>	27	NS <sup>6</sup>	27	27	<13	22	<30	18	26	33	NS <sup>6</sup>	21J	23	30	33J	24	23	29
L54-10 <sup>5</sup>	= 850 ft. upstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	25	22	27	20	26	26	20	NS <sup>6</sup>	NS <sup>6</sup>	27	NS <sup>6</sup>	21	22	28	33	<35	50	23	40	NS <sup>6</sup>	32J	26	37	60J	28	33	31
L54-11	= 1550 ft. upstream of Sulphur Creek	0 - 3	NS <sup>6</sup>	84	20	26	41	31	54	44	NS <sup>6</sup>	NS <sup>6</sup>	40	NS <sup>6</sup>	69	27	26	34	<48	18	32	56	NS <sup>6</sup>	18	27	25	20	24	25	22
L26-12 <sup>13</sup>	= 1 ft. out from the bank of the Lackawanna River and at the center of Sulphur Creek												NS <sup>6</sup>																	

2007 4th Quarter Sample Number	Sample Location <sup>1</sup>	Depth of Sample (Inch)	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.	1 <sup>st</sup> Qtr.	2 <sup>nd</sup> Qtr.	3 <sup>rd</sup> Qtr.	4 <sup>th</sup> Qtr.
			2005	2005	2005	2005	2006	2006	2006	2006	2007	2007	2007	2007
L54-01	= 1600 ft. downstream of Sulphur Creek	0 - 3	40	36	43	40J	18	23	39.5	14.4	42.3	29.1	34.4	33J
L54-02	= 115 ft. downstream of Sulphur Creek	0 - 3	27	69	64	34J	19	21	20.9	17.8	17.6	14.4	17.7	22J
L54-03	= 30 ft. downstream of Sulphur Creek	0 - 3	20	43	68	43J	76	132J	52.7J	34.9	16.6	24	43	30J
L54-04 <sup>4</sup>	= 30 ft. downstream of Sulphur Creek	0 - 3	25	49	95	35J	51	57J	84.7J	25.2	22.4	28	46.5	180J
L54-05	= 45 ft. downstream of Sulphur Creek (at stormwater pipe outfall)	0 - 3	23	45	74	85J	49	49	54.6	348	76.3	41.8	62.9	87J
L54-06	= 12 ft. downstream of Sulphur Creek (= 10 ft. from east bank of Lackawanna River)	0 - 3	45	31	56	79J	100	14	58.5	15.3	29.3	20.5	38.9	20J
L54-07	= 12 ft. downstream of Sulphur Creek (center of Lackawanna River)	0 - 3	24	31	28	28J	31	16	39.1	12.5	18	166	26	26J
L54-08	= 9 ft. downstream of Sulphur Creek	0 - 3	90	46	31	40J	28	28	72.7	28.1	18	15.9	28.2	26J
L54-09	= 850 ft. upstream of Sulphur Creek	0 - 3	32	20	22	30J	29	21	23.1J	12.8	14	20.7	<23.8	20J
L54-10 <sup>5</sup>	= 850 ft. upstream of Sulphur Creek	0 - 3	31	26	32	20J	23	17	14.0J	9.2	14.8	15.5	<15.1	16J
L54-11	= 1550 ft. upstream of Sulphur Creek	0 - 3	18	24	51	26J	36	14	17.7	8.0	19.2	18.1	<18.1	16J

Notes: All results reported in mg/kg

J Estimated result

<sup>1</sup> Distance from Sulphur Creek is measured from the approximate centerline of the creek.

<sup>4</sup> Sample LXX-04 is a duplicate sample of LXX-03.

<sup>5</sup> Sample LXX-10 is a duplicate sample of LXX-09.

<sup>6</sup> NS - Not sampled due to elevated water levels and velocities

<sup>8</sup> NA - Not applicable

<sup>9</sup> NS - Not analyzed because the sample container broke during shipment to the laboratory.

<sup>12</sup> Results in parenthesis represent the samples re-analysis results.

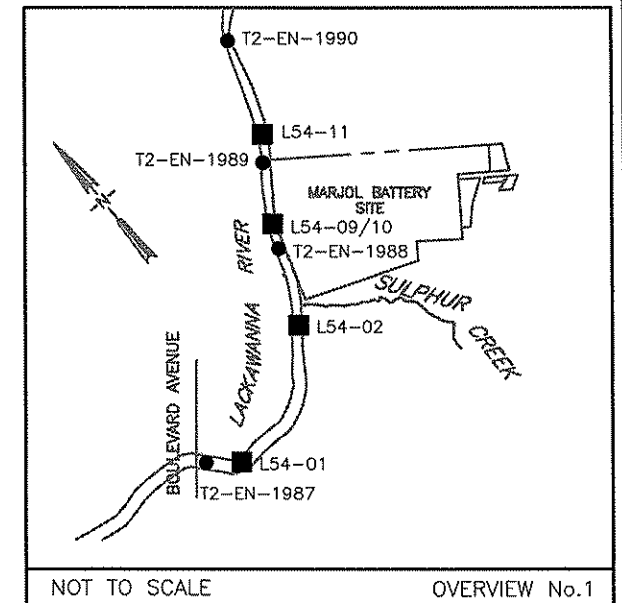
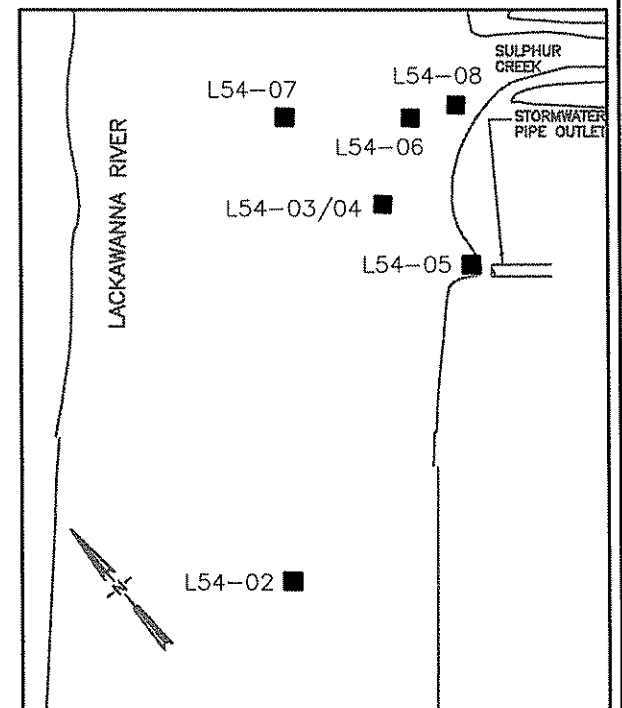
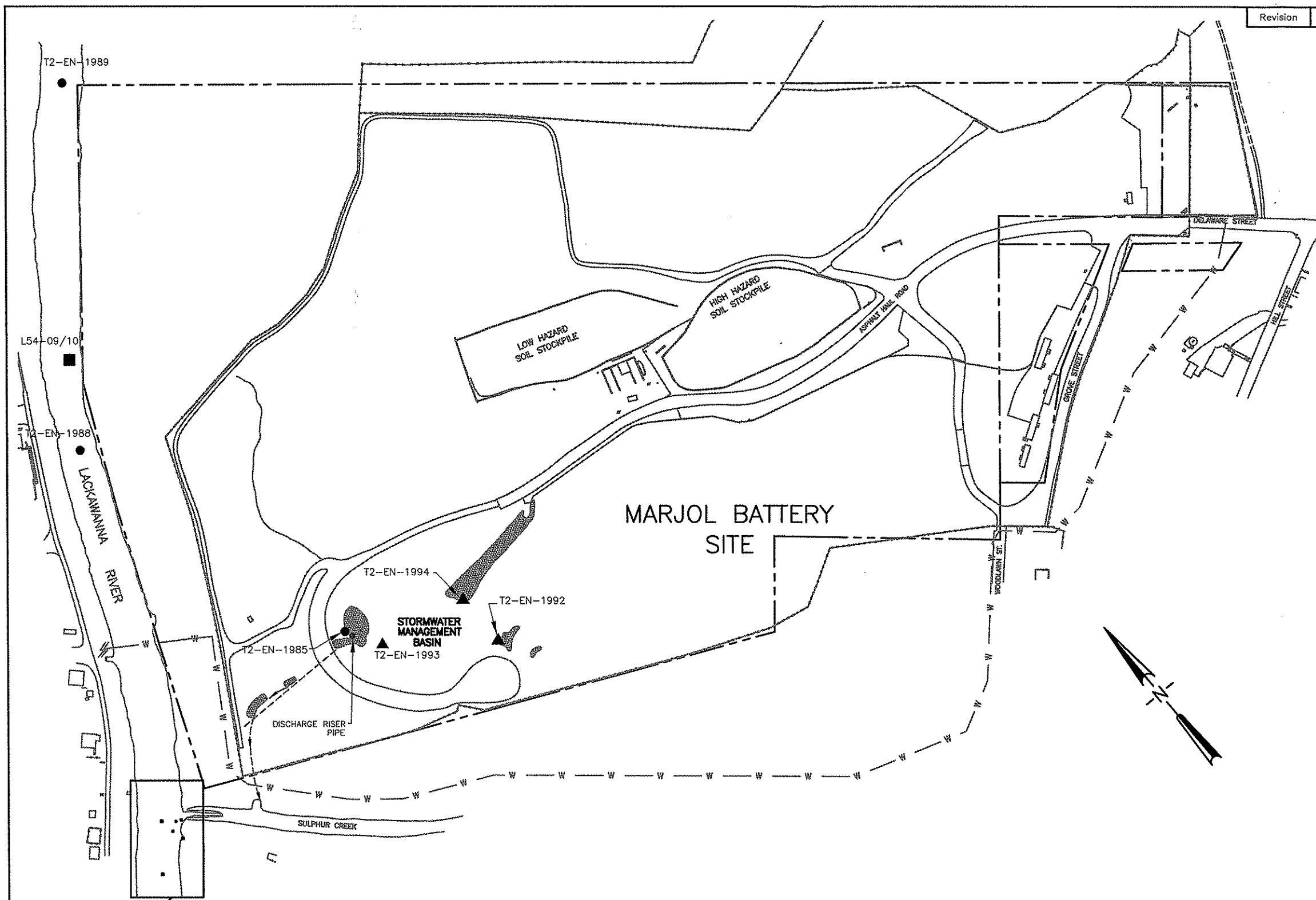
<sup>13</sup> Sample location LXX-12 was added fourth quarter 2000 only.





## FIGURE

Revision	Description	Date	By
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INSET No.1

**LEGEND**

	DISCHARGE CHANNEL
	18 - INCH DIAMETER DISCHARGE PIPE
	PROPERTY BOUNDARY
	FENCE LINE
	WATER LINE
	LACKAWANNA RIVER SEDIMENT SAMPLE LOCATION
	SURFACE WATER SAMPLE LOCATION
	STORMWATER MANAGEMENT BASIN PERFORMANCE MONITORING SEDIMENT SAMPLE LOCATION
	RIP RAP


**NOTES:**

- Ground control for February 1992 aerial survey, property line, and utility information based on surveys performed by:  
George Dundo Associates  
221 Barnard Street  
Dunmore, PA 18512
- This plan is based on information available at the time it was prepared. Actual conditions determined later may vary.

**MARJOL BATTERY SITE**  
THROOP BOROUGH, LACKAWANNA COUNTY, PENNSYLVANIA.

Scale: 1" = 200'
Originated By: A.W.D.
Drawn By: A.W.D.
Checked By: E.H.N.
Project Mgr: B.L.F.
Dwg No. 92002-MP-16
Issued: 4/18/2008

**2007 FOURTH QUARTER  
SURFACE WATER AND SEDIMENT  
SAMPLING LOCATION PLAN**



**Advanced GeoServices Corp.**  
1055 Andrew Drive Suite A  
West Chester, Pennsylvania 19380  
(610) 840-9100  
FAX: (610) 840-9199

Project No. 92-002-120-02      **FIGURE: SMBP-1**



**FOURTH QUARTER 2007  
SURFACE WATER SAMPLES**



**FOURTH QUARTER 2007  
SEDIMENT SAMPLES**



## **ATTACHMENT**

# **Laboratory Surface Water Sample Results and Laboratory Sediment Sample Results**

**THROOP BOROUGH COUNCIL**  
**MEETING NOTES**

**NOTES FROM THROOP BOROUGH COUNCIL**  
**January 7, 2008 (Re-Organization Meeting)**

**NOTES FROM THROOP BOROUGH COUNCIL  
RE-ORGANIZATION MEETING**

**January 7, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
Tony Gangemi  
John Musewicz  
Dave Repchick

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor)  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer)  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer)

---

**ANNOUNCEMENTS:**

- \* “Throop Borough officials and Employees wish everyone a Happy, Healthy, and Prosperous New Year”

**THE MEETING:**

Mayor Stanley Lukowski presided until a President and Vice-President of Council were appointed.

- \* A motion was passed, “To appoint Thomas Lukasewicz as Council President.” (All in favor.)
- \* A motion was passed, “To appoint James Barnick as Council Vice-President.” (All in favor.)

Mayor Lukowski thanked everyone for attending and then turned the meeting over to Tom Lukasewicz, Council President. Tom Lukasewicz thanked everyone on Council for having the faith in him to serve as Council president. He said he would try to do as good of job as in the past and that it was nice to have a lot of good people with him on Council to help. He said things looked good in Throop and he hoped they could move forward like they had in the past.

- \* A motion was passed, “To appoint John Musewicz as president pro tem to serve as chair in the absence of the president and vice president. (All in favor.)

- \* A motion was passed, “To adopt Throop Borough Resolution #1 of 2008, a resolution naming the following authorized signatures on all borough accounts and certificates of deposit; President, Vice-President, Chief Clerk/Treasurer and to authorize the Assistant Treasurer to sign in the absence of any of the three. Three signatures are required.” (All in favor.)
- \* A motion was passed, “To advertise to hold the Regular Monthly Council Work Session followed by the Monthly Meeting on the last Tuesday of the month at 6:30 p.m. and to hold a Special Monthly General Purpose Work Session followed by a Special General Purpose Meeting on the second Tuesday of the month at 6:30 p.m. Meetings and work sessions are held in Council Chambers, Throop Municipal Building, 436 Sanderson St., Throop.” (All in favor.)

**OFFICIAL COMMENTS:**

- \* It was announced that an Executive Session would be held after the meeting adjourned.
- \* Jim Barnick announced that Throop would be receiving a Howitzer for display.

**NOTES FROM THROOP BOROUGH COUNCIL**  
**January 7, 2008 (Special Monthly Meeting)**

**NOTES FROM THROOP BOROUGH COUNCIL  
SPECIAL MEETING**

**January 7, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
George Marushock - **absent**  
John Musewicz  
Tony Chrzan

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor)  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer)  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer)

---

**THE MEETING:**

\* A motion was passed to adjourn the meeting "Sine Die". (All in favor.)

District Magistrate Judge John Pesota then administered the Oath of Office to the newly elected members of Council: Ray Jarosh, Tony Gangemi, and Dave Repchick.

**NOTES FROM THROOP BOROUGH COUNCIL**  
**January 15, 2008 (Special Monthly Meeting)**

**NOTES FROM THROOP BOROUGH COUNCIL  
SPECIAL MONTHLY MEETING**

**January 15, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
Dave Repchick  
John Musewicz  
Tony Gangemi

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor)  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer)  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer) - **absent**

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**ANNOUNCEMENTS:**

- \* “An Executive Session was held January 7<sup>th</sup> following the re-organization meeting to discuss personnel matters.”
- \* “Throop Borough Council Schedule of Meetings and Work Sessions January through May 2008. The Council Work Sessions and Meetings will be held on the 2<sup>nd</sup> Tuesday and last Tuesday of the month beginning January 29<sup>th</sup> through May 27<sup>th</sup>. The work sessions will begin at 6:30 p.m. and the meetings will follow. Any re-scheduling will be advertised. Cancellations will be posted.”
- \* Ernie Cicilioni, Lackawanna County Compliance Manager, will hold a Public Hearing for the FFY 2008 Community Development Block Grant Program on Tuesday, January 29<sup>th</sup> at 6:15 p.m. The monthly work session and meeting will follow at 6:30 p.m.

**AUDIENCE COMMENTS ON THE AGENDA:**

There were no audience comments on the agenda.

**THE MEETING:**

- \* A motion was passed, “To accept Ralph Savitski’s resignation as a maintenance employee at the civic center.” (All in favor.) “On the question,” Tom Lukasewicz thanked Mr. Savitski for his years of service.

- \* A motion was passed, “To accept the medical report from Dr. Alan P. Gillick on Neil Furiosi. Dr. Gillick states that Chief Furiosi is permanently disabled from being able to work as a police officer and to confirm Chief Furiosi’s eligibility for a monthly disability pension pursuant to the applicable police pension fund ordinance as it relates to total and permanent disability. Also to contact Joe Duda, pension administrator and Ron Yanoski of Merrill Lynch regarding the Police Pension Fund.” (All in favor.) “On the question”, Tom Lukasewicz wished Mr. Furiosi well. Jim Barnick suggested that the Mayor get Mr. Furiosi a plaque.
- \* A motion was passed, “To authorize monthly pension benefits to Chief Neil Furiosi based on Ordinance #8 of 2003, Section 13, Total and Permanent Disability at 75% of the monthly salary at time of disability and to continue \$100,000.00 life insurance policy.” (All in favor.” “On the question”, Tom Lukasewicz asked if the time of disability when the disability occurred or when he went on disability. Dave Repchick said it goes by the date you were permanently and totally disabled, which he said would be that evening since Council voted on it.
- \* A motion was passed, “To authorize payment to Neil Furiosi for his unused sick time – 408.25 hrs., vacation time – 440 hrs., personal time – 80 hrs. and 10 holidays – 80 hrs. Total \$27,444.57 (Sick time is ½ of the maximum 816.5 hours as per contract.)” (All in favor.) “On the questions”, Jim Barnick asked if all police officers were allowed to carry over days in this manner. Dave Repchick said it was “only for police officers on heart and lung.” A short discussion ensued.
- \* A motion was passed, “To nominate Keith Jones for the Chief of Police position to the civil service commission as per the borough code Section 1184 – c.. It shall thereupon become the duty of the commission to subject Mr. Jones to a non-competitive examination, and if he shall be certified by the commission as qualified, he may be appointed as the Chief of Police.” (All in favor.) “On the question,” Joe Barone said Keith Jones was a good man.” Jim Barnick asked that the Civil Service Commission be directed to hold its annual hearing at the same time.
- \* A motion was passed, “To reappoint Lenore Dolan as Assistant Treasurer.” (All in favor.)
- \* A motion was passed, “To reappoint Robert P. Kalinoski as Street Commissioner.” (All in favor.) “On the question”, Jim Barnick noted that all of the appointments were with the salaries in the budget. Tom Lukasewicz said all of the salaries were in the budget; the current salaries.
- \* A motion was passed, “To reappoint Dave Morrell as Zoning Code Enforcement Officer.” (All in favor.)
- \* A motion was passed, “To reappoint Louis A. Cimini as Borough Solicitor.” (All in favor.)

- \* A motion was passed, “To appoint John P. Scheurer, BCM Engineers, as Borough Engineer, as per his proposal.” (All in favor.) “On the question,” Jim Barnick said they had to get the new engineer working on the sidewalk and Mary Street projects as soon as possible. Tom Lukasewicz agreed. A discussion ensued.
- \* A motion was passed, “To appoint Peters Design Group as Engineer for the Marjol Project.” (All in favor.) “On the question,” Tom Lukasewicz said that Peters design is currently in the process of evaluating things and they have made some recommendations and evaluations so the Borough doesn’t want to hold anything up. He said they didn’t want to jeopardize the Borough’s say in what could be done and not done.
- \* A motion was passed, “To reappoint Edward Krowiak as Zoning Board Solicitor.” (All in favor.)
- \* A motion was passed, “To reappoint Mary Ruth Tanner as Civic Center Director.” (All in favor.)
- \* A motion was passed, “To reappoint Ann Marie Stoffey, Lauren Leombruni, and Diane Abda as Assistant Civic Center Directors.” (All in favor.)
- \* A motion was passed to reappoint the Civic Center Monitors/Child Care Workers/Support staff. (All in favor.)
- \* A motion was passed, “To reappoint Richard Fuhr as Civic Center Maintenance.” (All in favor.)
- \* A motion was passed, “To appoint Kyle Lukowski and Frank Capoocia as Civic Center Maintenance at the same rate for maintenance men.” (All in favor.) “On the question”, Ray Jarosh said Kyle Lukowski and Frank Capoocia have done a great job and should be paid as maintenance workers when they are doing that kind of work.”
- \* A motion was passed, “To reappoint Cathy Reilly as Planning/Zoning Secretary.”
- \* A motion was passed, “To reappoint Dave Garvey as Sewage Enforcement Officer.” (All in favor.)
- \* A motion was passed, “To reappoint Phylis Mikulski as Coordinator of Events in the Borough of Throop.” (All in favor.) “On the question”, Joe Barone asked if Phylis Mikulski had to be notified when events were going on in Throop. Tom Lukasewicz said she should be notified to see if there are any conflicts.
- \* A motion was passed, “To reappoint James Caria as Coordinator of the Washington Street Park Ball field.” (All in favor.)
- \* A motion was passed, “To appoint Ed Bocan as Fire Marshal.” (All in favor.)

- \* A motion was passed, "To appoint Jerry Barone as Assistant Fire Marshal." (All in favor.)
- \* A motion was passed, "To appoint Eric Hartshorn, Hose Co. #2 representative, as Assistant Fire Marshal." All in favor.)
- \* A motion was passed, "To reappoint (BIU) Building Inspection Underwriters of Pennsylvania, Inc. for the Administration and Enforcement of the PA Uniform Construction Code for the Borough of Throop." (Barone against; rest in favor.)
- \* A motion was passed, "To sponsor the annual fireworks display at the Cow Flop at a cost of \$5,000.00. To schedule the fireworks display with Skip Markacs, Sales Manager, Schaefer Pyrotechnics, Inc." (All in favor.)

**MOTIONS NOT ON THE WRITTEN AGENDA:**

- \* A motion was passed, "To re-advertise for civic center maintenance as possible part-time/full time position; salary dependent upon experience." (All in favor.)
- \* A motion was passed, "To allocate \$17,500.00, the second half of the 2007 allowance, for Hose Co. #2." (Barnick and Barone against; rest in favor.) "On the question", Dave Repchick asked if they should add to the motion. Tom Lukasewicz said that all three fire companies have to supply the Borough with information on how the money from the Borough is spent.
- \* A motion was passed stating that the 2008 annual fire department allocation of \$17,500.00 for each Hose Company is contingent upon the following:
  - A detailed record must be kept to show by check number or other means how and where the allotment was spent.
  - One month prior to each allotment, the detailed record has to be submitted to the Borough for review.
  - No fees will be charged for any fire department services within the Borough of Throop.
  - A current membership list including certified active members must be submitted to the Borough annually.

(All in favor.)

- \* A motion was passed to accept the draft easement from Joseph Burratti and to refer the easement to the solicitor and the street commissioner for final review and acceptance. (All in favor.)

- \* A motion was passed to have the authorized representative of Throop Borough sign the Property Access Form to allow representatives or contractors of Gould Electronics Inc. to do work on a portion of Catherino Street.” (All in favor.) “On the question”, Jim Barnick asked if this was a temporary easement. Tom Lukasewicz said it was temporary but it was not even an easement, just permission to go on the property. Tony Gangemi asked what kind of equipment was going to be used. Lisa Ayers, Advanced GeoServices Corp., said that the bids had just gone out and we would have to see what the contractor who is chosen plans to use. It was discussed that the excavations in the North Woods area were mostly shallow - 0 to 6 inch excavations. Mr. Gangemi was concerned about the proximity of the excavations to homes. Rob Kalinoski asked if the area was to the west or east of Franko Street. A discussion took place.

### **OFFICIAL COMMENTS**

- \* Jim Barnick commented on the status of the Bellman Street Pump Station and a salt shed at the DPW Building location.

### **AUDIENCE COMMENTS ON NEW BUSINESS**

- \* Dominick Rocco commented on flood protection and suggested that the Army Corps. Of Engineers be contacted to re-evaluate the area.

**NOTES FROM THROOP BOROUGH COUNCIL**  
**January 29, 2008 (Monthly Meeting)**

**NOTES FROM THROOP BOROUGH COUNCIL  
MONTHLY MEETING**

**January 29, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
Dave Repchick  
John Musewicz  
Tony Gangemi

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor)  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer)  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer)

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**NOTES FROM WORK SESSION PRECEDING THE MEETING:**

Tom Lukasewicz commented that he had spoken with Lisa Ayers, Advanced GeoServices Corp., earlier in the day and it preliminarily looked as if it might be possible for some of the material from the Borough's 48 acres to be used as fill material at the Marjol Battery Site during construction. Tom Lukasewicz said that if the material was able to be used as fill, he was hoping that it might also be possible for something to be worked out with Gould Electronics Inc. regarding extending Franko Street.

**ANNOUNCEMENTS:**

- \* "Special mid-month council work session/meeting – Tuesday, February 12<sup>th</sup> at 6:30 p.m.  
Monthly work session/meeting – Tuesday, February 26<sup>th</sup> at 6:30 pm.

**AUDIENCE COMMENTS ON THE AGENDA:**

There were no audience comments on the agenda.

**THE MEETING:**

- \* A motion was passed, "To accept the treasurers' reports as posted and to pay the monthly bills against the borough as posted and/or printed on the agenda." (All in favor.)
- \* A motion was passed, "To pay all the employees of Throop Borough." (Barnick and Gangemi abstained on voting for their daughters' pays; rest in favor of paying all employees.)

- \* A motion was passed, "To accept the correspondence as read or posted." (All in favor.)
- \* A motion was passed, "To transfer \$400,000.00 from FNCB General Fund checking account to INVEST General Fund-Borough #0002 at a higher interest rate." (All in favor.) "On the question", Tom Lukasewicz commended Elaine Morrell for bringing this suggestion forward.
- \* A motion was passed, "To adopt Throop Borough Resolution #1 of 2008, a resolution appointing Raymond Jarosh to the Civil Service Commission for a 6 year term to fill the expired term of Eugene DePasquale." (All in favor.)

Mayor Lukowski swore Ray Jarosh in as a member of the civil service commission.

- \* A motion was passed, "To allocate the annual allotment in the amount of \$3,000.00 to Throop PAL." (All in favor.) "On the question", Tom Lukasewicz thanked Elaine Morrell and Christina Sullivan for being involved with PAL.
- \* A motion was passed, "To ratify the scheduling of the \$5,000.00 fireworks display with Skip Markacs, Sales Manager, Schaefer Pyrotechnics, Inc. for the National Night Out on August 5, 2008 at the Washington Street Park." (All in favor.) "On the question", Elaine Morrell noted that Officer Bill Hazleton and Chief Jones will be organizing the Night Out again.
- \* A motion was passed, "To adopt Throop Borough Resolution #2 of 2008, a resolution authorizing a 2008 Tax Anticipation Note in the amount of \$2,000,000.00 and to obtain best rates available." (All in favor.)
- \* A motion was passed, "To advertise to amend Throop Borough Ordinance #16 of 1994, an ordinance prohibiting smoking and tobacco use in the Throop Municipal Building. To amend the ordinance to include the Civic Center, the Civic Center property, and the Borough Building. The penalty of ten (10) day prison imprisonment will be deleted from the ordinance and will include a designated area (away from doors/entrances to buildings)." (All in favor.) "On the question", Jim Barnick said they were amending an ordinance so it had to be advertised all over again. He said it was a major amendment so there had to be thirty-day advertising. Ray Jarosh said he didn't have a problem banning smoking from the Civic Center, but he did have a problem with extending it to the parking lot. Mr. Jarosh said a place was needed for the employees to smoke. A lengthy discussion took place.
- \* A motion was passed, "To authorize Tom Rainey, of Bonita & Rainey, to perform the Annual Audit at the same rate as in the past." (All in favor.) "On the question", Tom Lukasewicz asked about the rate. Elaine Morrell said it was at the same rate as last year.

**MOTIONS NOT ON THE WRITTEN AGENDA:**

- \* A motion was passed, “To adopt Throop Borough Resolution No. 3 of 2008, to enter into an agreement with the Commonwealth of Pennsylvania Department of Transportation regarding the warning devices on S.R. 347 as per their correspondence.” (All in favor.)
- \* A motion was passed, “To authorize an independent inspection for the property located at 663 Sanderson Street for structural review.” (All in favor.) “On the question”, Tom Lukasewicz asked that the inspection be done as soon as possible.
- \* A motion was passed, “That a salt shed be constructed at the DPW facility by the end of September, 2008.” (All in favor.)

**OFFICIAL COMMENTS:**

- \* It was announced that the Civil Service will meet next Monday, February 4, 2008, at 7:30 p.m.
- \* It was announced that an Executive Session would be held after the meeting regarding personnel matters.
- \* Dave Morrell commented on tiles for the game room and a heating control box at the Civic Center.
- \* Joe Barone asked about a property on Rebecca Street.
- \* John Musewicz asked if there was any correspondence on the dikes.
- \* Tom Lukasewicz commented on making a salt shed a reality this year.
- \* Elaine Morrell commented on an advertisement for a part time maintenance person at the Civic Center.

**AUDIENCE COMMENTS ON NEW BUSINESS**

There were no audience comments on new business.

**NOTES FROM THROOP BOROUGH COUNCIL**  
**February 26, 2008 (Monthly Meeting)**

**NOTES FROM THROOP BOROUGH COUNCIL  
MONTHLY MEETING**

**February 26, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
Dave Repchick  
John Musewicz  
Tony Gangemi

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor)  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer)  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer)

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**ANNOUNCEMENTS:**

- \* The Boy Scouts were in attendance and welcomed to the meeting.
- \* “An Executive Session was held January 29 after the monthly meeting to discuss personnel matters.”
- \* “An Executive Session was held February 19 at 6:00 p.m. to discuss personnel and legal matters.”
- \* “An Executive Session was held this evening February 26 at 6:15 to discuss personnel matters.”

“March: Special mid-month work session/meeting – Tuesday, March 11 at 6:30 p.m. Monthly work session/meeting – Tuesday, March 25 at 6:30 p.m.”

**AUDIENCE COMMENTS ON THE AGENDA:**

There were no audience comments on the agenda.

**THE MEETING:**

- \* A motion was passed, “To accept the monthly zoning reports and the minutes of the January 15 and January 29 council meetings and CDBG Public Hearing.” (All in favor.)
- \* A motion was passed, “To accept the treasurers’ reports as posted and to pay the monthly bills against the borough as posted and/or printed on the agenda.” (All in favor.)

- \* A motion was passed, "To pay all the employees of Throop Borough." (Barnick and Gangemi abstained on voting for their daughters' pays; rest in favor of paying all employees.)
- \* A motion was passed, "To accept the correspondence as read or posted." (All in favor.)
- \* A motion was passed, "To appoint Keith Jones as Chief of Police with civil service status, as per the recommendation of the Civil Service Commission, at a salary of \$56,616.00." (All in favor.)

Mayor Lukowski administered the Oath of Office to Keith Jones.

- \* A motion was passed, "To ratify the transfer in the amount of \$86, 121.06 (\$85,829.44 + 291.62 interest posted on 2/1/08) from INVEST General Fund #0001 to FNCB General Fund checking account on February 6, 2008." (All in favor.)
- \* A motion was passed, "To ratify the rollover of Sunny Day CD #43-300787-9 in the amount of \$68,187.68 that matured on February 8, 2008 at FNCB for 84 months at a rate of 4.19%." (All in favor.)
- \* A motion was passed, "To donate \$200.00 to Cub Scout Pack 73 and \$200.00 to Boy Scout Troop 73." (All in favor.)
- \* A motion was passed, "To ratify the members of the Marjol committee: Ray Jarosh, Tony Gangemi, and Dave Repchick effective February 15, 2008." (All in favor.) Mayor Lukowski stated that it was a very critical period for the people of Throop and that something has to be done regarding Marjol so he hopes they roll up their sleeves and see what they can do.
- \* A motion was passed, "To rescind Resolution #2 of 2008, a resolution authorizing a 2008 Tax Anticipation Note in the amount of \$2,000,000.00. The tax anticipation note will be put on hold at this time." (All in favor.) "On the question", Jim Barnick and Tom Lukasewicz explained that the note didn't make sense at this time due to the interest rates.
- \* A motion was passed, "To adopt Throop Borough Resolution #4 of 2008, a resolution re-appointing Jonathan Musewicz to the Throop Borough Planning Agency for a four (4) year term. The term will expire on March 5, 2012." (Musewicz abstained; rest in favor.)
- \* A motion was passed, "To adopt Throop Borough Resolution #5 of 2008, a resolution to apply to the DCED, Department of Conservation and Natural Resources for a grant in the amount of \$40,000.00 for the purpose of carrying out the "Ash Street Park Development" a.k.a. 48 acres." (All in favor.) "On the question", Tom Lukasewicz stated that the money was there and the motion was just a formality. Jim Barnick suggested using the

money from the grant for the roof on the Municipal Building instead of for the 48 acres. A discussion took place.

**MOTIONS NOT ON THE WRITTEN AGENDA:**

- \* A motion was passed to enter into a contract with Blue Cross and Blue Shield effective March 1, 2008. The Plan will be a PPO Plan with a deductible for the majority of the Borough employees; the three employees that are now on the traditional plan will have the choice of staying on the traditional plan or being able to go into the PPO Plan. The approximate savings to the Borough is \$11,000. (All in favor.) "On the question", Tom Lukasewicz thanked Jim Barnick for his suggestion on calling Blue Cross/ Blue Shield to lower their rates and to Elaine Morrell for her part in obtaining the new rates.
- \* A motion was passed to authorize Robert Kalinoski to assess the Borough Building roof and to make a recommendation to Council. (All in favor.) "On the question", Jim Barnick suggested putting a pitched roof on the Municipal Building. A discussion took place.

**OFFICIAL COMMENTS:**

- \* Jim Barnick commented on a complaint he received from a resident on Murray Street regarding runoff and debris.
- \* Dave Repchick commented on purchasing a new 4x4 vehicle for the police department.
- \* Police Chief Keith Jones thanked Council for their confidence in him and their support.
- \* Tom Lukasewicz asked Chief Jones about burglaries in the town and requested that a plan be implemented to inform the community of robberies/incidents in the town.

**AUDIENCE COMMENTS ON NEW BUSINESS**

- \* Pam Testa thanked Council for installing a street light (because of previous robberies) near her home. Ms. Testa suggested the implementation of a Neighborhood Watch.
- \* Robert Kokinda thanked Council for its donation to the Boy Scouts.
- \* Dave Morrell commented on the Civic Center saving money by having the ceiling tiles in the Civic Center replaced by county people on a voluntary basis.
- \* Joseph Wargo thanked Council for the donations to the Boy Scouts.

**NOTES FROM THROOP BOROUGH COUNCIL**  
**March 11, 2008 (Special Monthly Meeting)**

**NOTES FROM THROOP BOROUGH COUNCIL  
SPECIAL MONTHLY MEETING**

**March 11, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
Dave Repchick  
John Musewicz  
Tony Gangemi

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor) – **absent**  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer)  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer)

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**ANNOUNCEMENTS:**

\* “An Executive Session was held this evening to discuss legal and personnel matters.”

“March: Monthly work session/meeting – Tuesday, March 25 at 6:30 p.m.”

Sunday, March 16 – Children’s Easter Party at the Civic Center 1:00 to 3:00

April: Special mid-month work session/meeting – Tuesday, April 8 at 6:30 p.m.  
Monthly work session/meeting – Tuesday, April 29 at 6:30 pm.”

**AUDIENCE COMMENTS ON THE AGENDA:**

There were no audience comments on the agenda.

**THE MEETING:**

\* A motion was passed, “To purchase a 2000 Mazda B-4000 four (4) –wheel drive extended cab truck from Leonard Romanski, Hamlin, at a cost of \$4,500.00 for use by the Zoning Officer...” (All in favor.) “On the question,” Council discussed who would be authorized to use the vehicle and the condition of the vehicle.

\* A motion was passed, “To accept the recommendation by Throop Volunteer Hose Co. #3 to designate Robert Hegedus as the Fire Prevention Officer for 2008 and to allocate the \$700.00 as budgeted. Copies of the receipts are to be submitted to the borough.” (All in favor.)

- \* A motion was passed, “To accept the recommendation by Throop Volunteer Hose Co. #3 to designate Jeff Granza as Knox Box Coordinator for the Borough of Throop.” (All in favor.) “On the question”, Tony Gangemi asked if people weren’t complying with the ordinance. A short discussion took place.
- \* A motion was passed, “To pay the monthly bills against the borough as posted and/or printed on the agenda.” (All in favor.)

**MOTIONS NOT ON THE WRITTEN AGENDA:**

- \* A motion was passed, “To ratify that Bill Tarby, EMA Coordinator, will be the representative for the Lackawanna-Luzerne County’s Hazard Mitigation Plan.” (All in favor.)
- \* A motion was passed, “To authorize the President of Council to sign the Indemnification Agreement with Pennsylvania One Call for the Borough sewers located in Olyphant Borough and Dunmore Borough.” (All in favor.) “On the question”, Jim Barnick asked if Jefferson Township should be included.

**AUDIENCE COMMENTS ON NEW BUSINESS**

There were no audience comments on New Business.

**NOTES FROM THROOP BOROUGH COUNCIL**  
**March 11, 2008 (Work Session)**

**NOTES FROM THROOP BOROUGH COUNCIL WORK SESSION**  
**March 11, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
Dave Repchick  
John Musewicz  
Tony Gangemi

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor)- **absent**  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer)  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer)

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Note: The Work Session was attended by Maureen Essenthier and Deana Crumbling from USEPA, Ron Brezinski and Robert Lewis from PADEP, and Barbara Forslund and Lisa Ayers from Advanced GeoServices Corp.

**THE WORK SESSION:**

Council President Tom Lukasewicz began the work session by stating some of Council's concerns with the upcoming construction activities at the Marjol Battery Site. The other Council members then voiced their concerns. Maureen Essenthier and Barbara Forslund addressed some of Council's concerns during the Work Session. Tom Lukasewicz requested a written response from USEPA and Gould addressing the concerns that were raised by the Council members. Those concerns included:

- 1) Council asked what would happen if something unexpected was found at the Site.
- 2) Tom Lukasewicz asked if radioactive monitors could be put in place such as those at landfills.
- 3) Council stated that it wants to have a Borough representative at the Site during all construction hours.
- 4) Council wants restrictions in place to prevent work from going on during severe weather conditions such as strong winds.
- 5) Jim Barnick said he wants the Borough's travel trailer put on site for the Borough so that the Borough's representative can do his/her spot checks from there and he/she can monitor out of that office.

- 6) Jim Barnick requested that video monitoring be done of all operations (3 monitors) to make sure everything is done properly. Mr. Barnick said that the Borough has no confidence in USEPA/PADEP.
- 7) Jim Barnick wants some kind of compensation for the Borough for additional police officers needed due to additional traffic on Delaware Street.
- 8) Jim Barnick asked what was going to be done about the roads. Tom Lukasewicz mentioned needing the DPW to do additional road work. Barbara Forslund stated that there is a roadway protection plan and that the contractor was going to post a bond for \$75,000 as recommended by the Borough's engineer. Council stated that it didn't feel that was enough money.
- 9) Jim Barnick wanted to make sure that all vehicles leaving the Site are decontaminated.
- 10) Jim Barnick commented about scales and trucks being properly placarded and DOT certified. He said the Borough would send a cop with a stop order if there were any infractions.
- 11) There was a discussion on permitted working hours in Throop Borough; the working hours in the Throop Borough ordinances will have to be confirmed. Council indicated Saturday working hours were shorter.
- 12) Council asked for an estimate on the number of trucks that will be going into/leaving the Site.
- 13) John Musewicz wanted to know who had the authority to shut the project down. Barbara Forslund explained that someone from Advanced GeoServices Corp. would have that authority.
- 14) Jim Barnick was concerned with employee parking. Barbara Forslund said that employee parking would be on-site and not on Throop roads.
- 15) Jim Barnick was concerned about decontamination procedures.
- 16) Tom Lukasewicz asked historically, what the percent of occurrences were where contamination left the facility during a clean up operation. Maureen Essentier said she didn't know where she would be able to get that information. Tom Lukasewicz wanted to know if it ever happened and what percent of the time.
- 17) Council wants air monitoring done all of the time, not just during working hours. John Musewicz asked if this type of air monitoring plan was in place already. Barbara Forslund stated that it was not. There was a lengthy discussion on air monitoring and the number of air monitors off-site and concerns with the

children's baseball fields being monitored. Council stated that it better close the Woodlawn Street playground for the 2 years of construction. Ray Jarosh asked who would be checking the air monitors. Council was concerned with having a Gould representative watching the monitors, but Maureen Essentier explained that she didn't think it was a problem. Barbara Forslund stated that there was no financial advantage to Gould to not stop work if there were high dust levels. There was a discussion on the dataloggers, the threshold levels, and how data was stored and retrieved from the air monitors.

- 18) Council wants to know who the point people are for communications. Council wants to be notified immediately of any incidents.

Additional discussions included:

- \* Mayor Lukowski asked if this was the first operation of this sort that Advanced GeoServices Corp. had done. Barbara Forslund said it wasn't. The Mayor asked if the people at the other places were happy, if the remediations were successful, and the amount of time they took.
- \* Joe Barone asked why the project wasn't under Superfund. Maureen Essentier explained.
- \* Jim Barnick said a resident told him someone was at his house on Dunmore Street. Maureen explained that EPA was investigating elevated levels along Dunmore Street and asked if Dunmore was a two-way road at one time.
- \* There was a discussion on communications with the Borough during construction. Maureen Essentier asked the Borough to tell them how they wanted USEPA to communicate with them. Barbara Forslund stated that Gould intended to address Council once a month in the beginning and then if Council felt they wanted less frequent updates, we could decrease them. Barbara Forslund suggested that we would be back at Council's April meeting to provide an update.
- \* Joe Barone asked the number of employees that would be at the Site.
- \* Joe Barone asked if USEPA/PADEP were contacted by Representative Shimkus. They said they were not. He asked if they (and Gould) would attend a meeting with him. Maureen Essentier and Bob Lewis said they would attend if they were invited to a meeting.
- \* Maureen Essentier explained that they weren't able to fund 100% oversight, but said they would be there about 50% of the time and would work out with PADEP (Gannett Fleming) to try to cover as much as possible.

- \* It was discussed that once a contractor is chosen, we would have a pre-construction meeting and Council would like to meet the contractor.
  
- \* Barbara Forslund briefly explained where we are in the process and what the next steps are. Barbara Forslund noted that the NPDES permit went out for public comment. Tom Lukasewicz noted the Public Hearing that was scheduled at the Civic Center on 4/16/08.

**NOTES FROM THROOP BOROUGH COUNCIL**  
**March 25, 2008 (Monthly Meeting)**

**NOTES FROM THROOP BOROUGH COUNCIL  
MONTHLY MEETING**

**March 25, 2008**

**Council Members :**

James Barnick - Vice President  
Joseph Barone  
Ray Jarosh  
Thomas Lukasewicz - President  
Dave Repchick  
John Musewicz  
Tony Gangemi

**Additional Borough Representatives:**

Attorney Louis Cimini (Solicitor)  
Stanley Lukowski (Mayor)  
Elaine Morrell (Chief Clerk/Treasurer) - **absent**  
Christina Sullivan (Secretary)  
Lenore Dolan (Assistant Treasurer)

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**ANNOUNCEMENTS:**

- \* “An Executive Session was held March 19 at 6:00 to discuss personnel and legal matters.”

“April Meetings:

Special Mid-Month Work Session/Meeting – Tuesday, April 8 at 6:30 p.m. Monthly  
Work Session/Meeting – Tuesday, April 29 at 6:30 p.m.”

**AUDIENCE COMMENTS ON THE AGENDA:**

There were no audience comments on the agenda.

**THE MEETING:**

- \* A motion was passed, “To accept the monthly zoning reports and the minutes of the February 26 and March 11, 2008 council meetings.” (All in favor.)
- \* A motion was passed, “To accept the treasurers’ reports as posted and to pay the monthly bills against the borough as posted and/or printed on the agenda.” (All in favor.)
- \* A motion was passed, “To pay all the employees of Throop Borough.” (Barnick and Gangemi abstained on voting for their daughters’ pays; rest in favor of paying all employees.)
- \* A motion was passed, “To accept the correspondence as read or posted.” (All in favor.)

- \* A motion was passed to ratify the transfer of \$230,038.01 from the Borough's INVEST Funds to the Borough's FNCB General Fund Checking Account. (All in favor.)
- \* A motion was passed, "To authorize payment to DUDA Actuarial in the amount of \$700.00 from the Non-Uniform Pension Plan and \$700.00 from the Police Pension Plan for the 2007 Actuarial Reports for each Plan." (All in favor.)
- \* A motion was passed, "To adopt Throop Borough Resolution #6 of 2008, a resolution Authorizing the Board of Commissioners of Lackawanna County to Submit an Application for Federal Fiscal Year 2008 Community development Block Grant Program Funds in the amount of \$95,501.00 on behalf of the Borough of Throop." (All in favor.) "On the question" Tony Gangemi asked if this would be rolled over to do Mary Street.
- \* A motion was passed, "To authorize additional payment to J.A. Buratti in the amount of \$800.00 for the additional work performed by J.A. Buratti at the request of the Borough of Throop in conjunction with the Bellman Street Townhouse Project, pending signed agreement and easement. (Total of \$10,300.00)." (All in favor.) "On the question", Jim Barnick stated this was the last payment.

**MOTIONS NOT ON THE WRITTEN AGENDA:**

- \* A motion was passed to purchase a 2008 Durango from Warnok Fleet at an approximate cost of \$35,000.00 for the Police Department. (All in favor.)
- \* A motion was passed to authorize the chief of police to properly solicit bids for the disposal of the Police Department's 1999 Ford Explorer. (All in favor.)
- \* A motion was passed authorizing Bill Shevchick to do the maintenance of the Washington Street Park beginning May 1<sup>st</sup> at the same salary. (All in favor.)

**OFFICIAL COMMENTS:**

- \* Joe Barone asked if the Borough was going to hire Summer help this year. He said that the dug outs at the Little League Field need painting.
- \* Rob Kalinoski said the Bellman Street Pump Station was almost complete.
- \* Lenore Dolan asked about a light on South Valley Avenue. It was discussed that it was ordered.

**AUDIENCE COMMENTS ON NEW BUSINESS**

There were no audience comments on new business.