Golder Associates Inc.

200 Century Parkway, Suite C Mt. Laurel, NJ 08054

Tel: (856) 793-2005 Fax: (856) 793-2006 www.golder.com



REMEDIAL ACTION REPORT OU2 SEDIMENT REMOVAL CENTRE COUNTY KEPONE SITE STATE COLLEGE, PENNSYLVANIA

Prepared for:

RÜTGERS Organics Corporation 201 Struble Road State College, PA 16801

Prepared by:

Golder Associates Inc. 200 Century Parkway, Suite C Mount Laurel, NJ 08054

DISTRIBUTION:

3 Copies U.S. Environmental Protection Agency

1 Copy PA Department of Environmental Protection

2 Copies RÜTGERS Organics Corporation

2 Copies Golder Associates Inc.

November 2008 Project No.: 963-6333

Golder Associates Inc.

200 Century Parkway, Suite C Mt. Laurel, NJ 08054

Tel: (856) 793-2005 Fax: (856) 793-2006 www.golder.com

November 7, 2008



Project No.: 963-6333

U.S. Environmental Protection Agency (3HS22) 1650 Arch Street Philadelphia, PA 19103-2029

Attn.: Mr. Frank Klanchar

RE:

REMEDIAL ACTION REPORT

SEDIMENT REMOVAL ACTION

CENTRE COUNTY KEPONE SITE, STATE COLLEGE, PA

Dear Mr. Klanchar:

On behalf of RÜTGERS Organics Corporation (ROC), Golder Associates, Inc. (Golder) is providing 2 copies of the Remedial Action Report (RAR) for the Operable Unit No. 2 Sediment Removal Action conducted at the Centre County Kepone Site (Site). This report is being submitted pursuant to the May 7, 2007 Administrative Settlement and Order on Consent (AOC) between ROC and the U.S. Environmental Protection Agency (USEPA).

If you have any questions about this matter, please contact Dr. Rainer Domalski at (814) 231-9200 or the undersigned (856-793-2005) with any comments or questions.

Very truly yours,

DERASSOCIATES INC.

awrence, Jr.

Senior Project Geologist

Senior Engineer

G:\PROJECTS\1992 - 1999 PROJECTS\963-6333 ROC CENTRE COUNTY\OU2 SED REMOVAL\RAR\OU-2 SED CVR LLTR - 110808,DOC

Attachments

cc:

Ms. Cheryl Sinclair, PADEP (w/ Attachment)

Dr. Rainer Domalski, ROC (w/ Attachment)

TABLE OF CONTENTS

Cover Letter

Table	of Contents	i
SECT	<u>ON</u>	PAGE
1.0	INTRODUCTION 1.1 Project Background	1 3 4 4 4 5
2.0	SITE DESCRIPTION AND PHYSICAL SETTING	7
3.0	REMEDIATION ACTIVITIES 3.1 Preparation for Construction 3.2 Field Mobilization & Utility Mark Outs 3.3 Dewatering and Stream Flow Control Measures 3.4 Erosion Control 3.5 Sediment Removal 3.6 Sediment Staging 3.7 Restoration Activities 3.7.1 Channel Lining and Restoration 3.7.2 ROC Property Restoration 3.7.3 Private Property Restoration 3.8 Decontamination	8911121213
4.0	POST-REMEDIATION SAMPLING AND DISPOSAL 4.1 Post-Excavation Confirmatory Sampling 4.2 Sediment Characterization Sampling 4.3 Sediment Disposal	14 14
5.0	SUMMARY AND CONCLUSION	16
6.0	REFERENCES	17
7.0	CERTIFICATION	18

LIST OF TABLES

Table 1 – Pre and Post-Excavation Analytical Results

Table 2 – Disposal Characterization Analytical Results

LIST OF FIGURES

Figure 1 – Pre-Remediation and Post-Remediation Pictures

Figure 2 – Channel Lining and Restoration

Figure 3 – Post-Excavation Confirmatory Sample Locations

LIST OF APPENDICES

Appendix A	Summary of Daily Field Activities and Daily Field Reports
Appendix B	Daily Field Maps
Appendix C	Laboratory Analytical Data Packages
Appendix D	Analytical Data Validation Reports
Appendix E	Non-Hazardous Disposal Documentation

1.0 INTRODUCTION

1.1 Project Background

The Centre County Kepone Site in State College, Pennsylvania (Site), was placed on the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List (NPL) on September 8, 1983. RÜTGERS Organics Corporation (ROC), formerly known as Ruetgers-Nease Corporation (RNC), owns and formerly operated a chemical manufacturing plant at the Site. Pursuant to CERCLA, as amended by the Superfund Amendments and Reauthorization Act of 1986 (SARA), ROC and the United States Environmental Protection Agency (USEPA) entered into an Administrative Order of Consent (AOC, EPA Docket No. III-88-22-DC) on November 7, 1988, which stipulated that a Remedial Investigation (RI) and Feasibility Study (FS) be performed for the Site including the former manufacturing area and specific off-property areas including Thornton Spring and a portion of Spring Creek.

In April 1995, the USEPA issued a Record of Decision (ROD) for the Site, which specified certain remedial actions that were defined as Operable Unit No. 1 (OU-1) and required additional sampling and assessment of other areas that constituted Operable Unit No. 2 (OU-2). ROC entered into a Consent Decree (Civil Action No. 03-23) with USEPA in 1997 to implement the ROD. OU-2 includes sediments in the off-property portion of a Fresh Water Drainage Ditch (FWDD) and sediments in the Thornton Spring drainage channel (TSC).

In accordance with the requirements of the ROD, investigation work was carried out in these areas by Golder Associates, Inc. (Golder) between August 27, 2001 and September 14, 2001, with assistance and oversight from representatives of the cooperating Agencies: USEPA, Pennsylvania Department of Environmental Protection (PADEP), Pennsylvania Fish & Boat Commission (PFBC), and U.S. Fish & Wildlife Service (USFWS). The analytical data collected with regards to the FWDD and TSC are summarized below:

Mirex was detected in all four primary samples of fine grained sediment from the lower FWDD at concentrations up to 1,420 ug/kg, while kepone was detected in two samples at concentrations up to 173 ug/kg, and photomirex was detected in one sample at a concentration of 83 ug/kg.

The sampling results for the TSC sediments showed that mirex and kepone were present in virtually all samples of fine-grained sediments. Mirex was present at concentrations up to 309 ug/kg and kepone up to 765 ug/kg; photomirex was not detected.

On September 24, 2002, during a meeting between ROC, Golder, and the various Agencies, it was concluded that removal of fine-grained sediment from the lower FWDD and from the Thornton Spring drainage channel was appropriate. The parties subsequently met on site on October 31, 2002 and agreed upon a probing method to establish the extent and volume of fine-grained sediment.

A letter dated August 14, 2003, described the potential sediment removal action and summarized the results of the probing, which indicated an in-place sediment volume of approximately 118 cubic yards (cu. yds.) for the lower FWDD and approximately 16 cu. yds. for the TSC.

ROC and USEPA subsequently entered into an Administrative Settlement and Order on Consent (2007 AOC) for removal of the fine grained sediment that was effective on May 7, 2007.

The 2007 AOC required that all fine-grained sediments/soils be removed to a depth of 2 feet to be protective of environmental receptors. The depth of excavation may be limited by the occurrence of bedrock. However, if sediments/soils remain after excavation, they must meet the soil cleanup levels of 33,062 micrograms (µg/kg) for mirex, and 72,737 µg/kg for kepone as specified in the 2007 AOC. Any residual sediment/soil contamination remaining in-place must be contained by lining the excavated areas and employing approved erosion control measures. The 2007 AOC also required the submission of a Response Action Plan (RAP) together with an expeditious schedule for completion of the response action in the lower FWDD and TSC.

In order to provide information on current site condition for preparation of the RAP, additional sediment samples were collected, and confirmation sediment probing was conducted in June 2007 using the same methods as the previous work. A summary of the sediment sampling program was presented in the RAP (Golder, 2007). In general, the 2007 work indicated that mirex and kepone were present in the FWDD and TSC at concentrations comparable to previous sampling results. The results of the 2007 sediment thickness survey were also comparable to previous results and are summarized in the RAP that was submitted to the USEPA in July 2007. USEPA conditionally approved the RAP in a letter dated October 5, 2007, and USEPA's comments were addressed in the Remedial Action Design Report (RADR, Golder 2007).

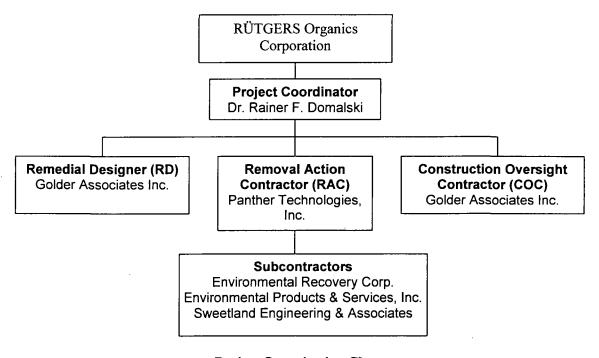
1.2 Construction Documents

The sediment removal action was governed by the above referenced USEPA-approved RAP, the associated RADR, and the following ancillary plans:

- "Sampling and Analysis Plan" prepared by Golder Associates, dated October 2007. (Provided as Appendix A of RAP).
- "Quality Assurance Plan, Sediment Removal Action, Centre County Kepone Site, State College, Pennsylvania", prepared by Golder Associates, dated October 2007. (Provided as Appendix B of RAP).
- "Site Management Plan" prepared by Golder Associates, dated October 2007. (Provided as Appendix D of RAP).
- "Health and Safety/Contingency Plan, OU-2 Sediment Removal Action, Centre County Kepone Site, State College, Pennsylvania" prepared by Golder Associates, dated April 2008

1.3 Project Participants

This section describes the roles and responsibilities of team members during the sediment removal action. The project organization is illustrated below.



Project Organization Chart

1.3.1 Project Coordinator

The Project Coordinator was Dr. Rainer F. Domalski of ROC. ROC is responsible for the overall coordination and management of activities as detailed in the Consent Decree.

1.3.2 Remedial Designer

Golder was retained by ROC and approved by the USEPA and PADEP as Remedial Designer. As Remedial Designer, Golder performed the following activities:

- Assisted ROC in the selection of the RAC;
- Reviewed RAC submittals and shop drawings for conformance with the design requirements;
- Reviewed all design and specification changes that were proposed by the RAC;
- Provided clarifications to the Contract Drawings and Technical Specifications;
- Provided project oversight during remedial action implementation; and,
- Prepared this RAR at the completion of the project.

Material and method changes proposed during construction were evaluated by Golder for compliance with the intent of the RAP and the Technical Specifications. Any changes made to the scope of work during the course of remedial action implementation were reviewed by Golder and discussed with the Agencies for conditional approval.

1.3.3 Removal Action Contractor

The RAC for the sediment removal action was Panther Technologies, Inc. (Panther) of Medford, New Jersey. Panther acted as the General Contractor and was responsible for the overall coordination and management of the sediment removal activities.

Under Panther's supervision, Environmental Recovery Corp (ERC) of Lancaster, Pennsylvania, and Environmental Products & Services, Inc. (EP&S) of Harrisburg, Pennsylvania, were used for vacuum dredging (vactor) services. Sweetland Engineering & Associates (SE&A) of State College, Pennsylvania, performed land surveying.

1.3.4 Construction Oversight Contractor

The COC was responsible for overseeing implementation of the remedial action. Responsibilities of the COC included the following activities:

- Reviewed the construction activities in the field to verify compliance with the Contract Drawings, Technical Specifications, and related workplans;
- Reviewed construction schedule with the RAC;
- Reviewed each stage of construction, materials, and workmanship provided by the RAC;
- Performed confirmation and characterization sampling, and coordinated analytical testing;
- Reviewed, in conjunction with ROC, USEPA and PADEP, corrective measures to be implemented during construction when deviations from the RADR/RAP occurred;
- Maintained a set of Contract Drawings showing adjustments/changes and as-built information from the RAC;
- Evaluated the soils, geosynthetics, and other testing laboratories' qualifications for the project;
- Observed excavation activities;
- Observed and monitored general construction;
- As part of restoration, monitored and documented geosynthetic material and aggregate material placement;
- Reported identified deficiencies and substantive changes;
- Prepared daily construction reports; and,
- Maintained an on-Site project file for storing the originals or copies of planning documents, material data sheets, and reports generated during construction.

1.3.5 Regulatory Oversight

The USEPA's Project Coordinator was Mr. Frank Klancher. The United States Army Corp of Engineers (Army Corps) occasionally provided assistance to USEPA. At various times Mr. Jim Harbert, Mr. Tom Conway, and Mr. Joe Hollswander represented Army Corp. Other regulatory agency representatives included: Mr. Mark Hartle and Ms. Heather Smiles of the Pennsylvania Fish and Boat Commission (PFBC); and Mr. Steve Clawson of the United States Fish and Wildlife Service.

1.4 Construction Schedule

Construction activities commenced on April 22, 2008 and were substantially completed on June 24, 2008. Sediment was removed from the Site for disposal on September 23, 2008. The initiation and completion dates of the major construction components are discussed in detail in Section 3.

1.5 Organization of the Document

This RAR documents the remedial action work conducted on Site, including the following specific information:

- Section 2 describes the Site and the physical setting;
- Section 3 discusses the activities implemented as part of the RAP;
- Section 4 discusses confirmation and characterization sampling, and sediment disposal;
 and,
- Section 5 provides a summary and conclusion of the remedial action.

Golder Associates

2.0 SITE DESCRIPTION AND PHYSICAL SETTING

2.1 Site Features

The Site is located in College Township, Centre County, Pennsylvania, approximately two and one-quarter miles northeast of the Borough of State College. The ROC property occupies an area approximately 32.2 acres and includes ROC's former manufacturing plant located on Struble Road about 3,000 feet north of the intersection of State Routes 322 and 26.

The topography of the ROC property is relatively gently sloping terrain located on the northwest flank of Nittany Mountain. Ground surface elevations in the area range from approximately 1,090 feet above mean sea level (ft MSL) near the railroad tracks to 1,120 ft MSL in the southwest portion of the Site. Surface water runoff at the Site, primarily from building roof drains and pavement, flows to a retention basin before being discharged to the on-site Fresh Water Drainage Ditch (FWDD), which ultimately discharges to Spring Creek.

The regional climate is temperate and wet, with precipitation occurring throughout the year. Average monthly temperatures for 2007 range from a minimum of 27 degrees Fahrenheit (° F) in January, to a maximum of 71° F in July. In 2007, monthly precipitation for the area ranged from 2.5 inches in February to 4.1 inches in September, with a yearly total of 38.8 inches.

2.2 Surrounding Area

In the immediate vicinity of the Site, the land use is industrial/commercial and residential. Residential dwellings are located along the southeast border of the Site. Commercial establishments are located along State Route 26 which is heavily traveled and runs adjacent to the Site. A restaurant, garden center, and lumber yard are located within 300 feet of the former manufacturing plant.

A public water supply is provided throughout the surrounding area by the College Township Water Authority.

Surface water runoff at the Site, primarily from building roof drains and pavement, flows to a retention basin before being discharged to the on-site Fresh Water Drainage Ditch (FWDD), which ultimately discharges to Spring Creek.

3.0 REMEDIATION ACTIVITIES

3.1 Preparation for Construction

Preparatory activities included the selection, on the basis of qualifications and competitive bids, of a qualified RAC, and selection of the facility to accept the removed sediment for disposal. Panther was selected as the RAC, and Wayne Township Landfill in McElhattan, Pennsylvania was selected as the disposal facility.

Prior to Panther's mobilization, an on-site meeting with the project team was conducted to coordinate field activities, including provision of temporary erosion control and, where needed, traffic control systems along Route 26, Houserville Road, and Pike Street.

Panther obtained mark outs of underground utilities in the vicinity of the response action activities through the Pennsylvania One Call System. Since the FWDD is located within the State Route 26 right of way, access to the FWDD was coordinated with the Pennsylvania Department of Transportation (PennDOT) Engineering District 2-0, located in Clearfield, Pennsylvania.

Access to the TSC was coordinated with adjacent property owners by Panther.

3.2 Field Mobilization & Utility Mark Outs

On April 22, 2008, Panther mobilized to the Site. Panther unloaded and staged equipment and began construction of the sediment dewatering pad on the ROC property, including a sump in the downgradient corner of the pad to collect and transfer draining water to the Site groundwater treatment plant.

Under Panther's supervision, SE&A commenced the pre-construction survey at the TSC and the FWDD. The pre-construction survey was completed on April 23, 2008.

On April 24, 2008, Golder took pre-construction photographs of the TSC and the FWDD. Representative photographs are provided in Figure 1.

3.3 Dewatering and Stream Flow Control Measures

Panther set up a pump bypass systems using a 2-inch trash pump and flexible hose to pump water around the work area and to a discharge point downstream of the work area.

The pump bypass system was used to control water flow through the work area so that sediment consistency allowed the material to be transferred to the vacuum truck ("vac truck") without material clogging the hose.

3.4 Erosion Control

Silt fencing was placed along the down-slope side of the access area, and coir logs with sand bags were placed within the creek channel for erosion control in accordance with requirements outlined in the Pennsylvania Soil Erosion and Sediment Pollution Control Program Manual (PADEP, 2000).

Coir logs were placed within the creek channel to naturally filter disturbed sediment from the work area during the course of construction. Both Panther and Golder personnel performed periodic checks to confirm that disturbed sediment was not flowing past the coir logs further downstream within the TSC or into Spring Creek.

The Centre County Conservation District did not require an Erosion and Sediment Control Plan for this project.

3.5 Sediment Removal

On April 23, 2008, Panther began constructing access to the TSC. Access construction included placing fabric and 1.5-2 inch diameter stone to alleviate any potential impacts from equipment to the ground surface.

On April 28, 2008, operations commenced in the FWDD; however, heavy rains over the weekend had caused increased surface water flow from the surrounding upgradient areas to the FWDD. Heavy rains persisted the following week and after discussing site conditions with USEPA, verbal approval was granted to delay field work and extend the project schedule accordingly, until conditions improved.

On May 27, 2008, Panther remobilized to the Site to continue sediment removal activities.

Sediment removal was initiated in the TSC primarily using vacuum dredging. Where sediment removal became more cumbersome, a field crew of two supplemented the vacuum operation by loosening material with hand shovels. All fine-grained sediments/soils were removed to a minimum depth of at least 2 feet to be protective of environmental receptors. In some instances, the depth of excavation was limited by the occurrence of bedrock.

Removal of sediments/soils to a depth greater than 2 feet was based on field conditions encountered during removal activities. In isolated areas, where sediment was greater that 2-feet in thickness, additional sediment was removed to bedrock so as to obviate the need for post-excavation sampling. If sediments/soils remained after excavation, post-excavation confirmation samples were collected, as described in the Section 4.3, to ensure remaining soils met the cleanup levels specified in the ROD to be protective of groundwater.

On June 2, 2008, a mini-excavator was used to loosen the sediment in the upper portion of the TSC instead of loosening it by hand. Permission was granted from the Agencies to use the mini-excavator or a small backhoe in Thornton Spring provided it was not used to just dig and haul. The mini-excavator was approved for use in the upper third of the channel where the channel was approximately 8 to 10 feet wide, and where the majority of the sediment was located. The Agencies requested that all attempts be made to retain the natural rocky substrate of the spring using the existing rocks in the stream, not riprap, to minimize the impact to the stream bank. The excavator was used to loosen and stockpile the sediments, and then to pick out the larger rocks. The vac truck then was used to remove the stockpiles fine-grained sediments. Afterwards, the remaining rocks were placed back in the channel.

Remedial activities at the FWDD and TSC were completed from May 27, 2008 through June 25, 2008. The total weight of material removed from the FWDD and the TSC as part of this sediment removal action was 116.21 tons. Details of each day's removal activities are provided in Appendix A along with daily field reports. Daily field maps, depicting areas in which remediation occurred each day are provided in Appendix B.

3.6 Sediment Staging

Sediment was temporarily staged on the ROC Property while awaiting characterization sample results and approval of an off-site disposal facility by USEPA and PADEP. Panther constructed a sediment dewatering pad that also served as the temporary staging area. The staging area was constructed of 6 millimeter polyethylene plastic with an in-ground collection sump and hay bale berms. It was built atop an existing asphalt pad following the existing grade slope to the collection sump.

Residual water was allowed to drain by gravity from the sediment and collect in the sump. As needed, water collected within the sump was transferred to and treated in the on-site treatment system before discharge to the FWDD.

Sediment was transferred directly from the work area to the sediment dewatering pad via the vac truck. Initially, the sediment was allowed to settle overnight within the vac truck prior to the water portion being pumped to the groundwater treatment system; however, there was not enough space in the treatment system to store the amount of sediment/water being removed and the sediment content was high enough that there was concern it would continually foul the treatment system's bag filters; thus, shutting down the treatment system.

Sediment filter bags were brought to the Site to filter the draining water from the dewatering pad before sending it to the treatment system. The bags that were brought were larger micron bags (approximately 50 to 75 micron) and the water passing through and coming out was still heavily sediment-laden. A test was made with a 10 micron filter bag from the treatment system and it was somewhat effective at filtering the sediment/water, however it quickly filled to capacity in a matter of minutes.

During the setup of the filter bags, ROC personnel suggested using a water tight former secondary containment area near the treatment system to store the sediment/water until the sediment settled out and the water could then be decanted to the treatment system. Approval of this technique was verbally granted during a conference call on May 29, 2008 between Golder, ROC management, and USEPA. Thus, as the vac truck became full of sediment/water from removal operations, it was first mobilized to the secondary containment structure where the liquid portion of the load was pumped off. Once this mixture was allowed enough time to settle, the water was decanted off to the groundwater treatment system.

The remaining solid portion of the vac truck load was then off-loaded to the sediment dewatering pad as performed previously. This technique of using the former secondary containment area as a temporary sedimentation basin was used throughout the rest of the remedial action. At the completion of removal operations, residual sediment remaining in the secondary containment structure was removed and consolidated with the sediment in the temporary staging area.

In the event of inclement weather, sediment off-loaded to the dewatering pad was covered with plastic to divert rainwater off the dewatering pad and away from the dewatering pad sump.

3.7 Restoration Activities

3.7.1 Channel Lining and Restoration

Any residual sediment/soil contamination remaining in place was contained by a channel lining. Due to the rocky nature of the existing channel substrate in both the FWDD and TSC, riprap was used to compliment, as much as possible, existing conditions.

On June 25, 2008, Panther completed the restoration of the TSC and the portion of the private property used to access the TSC. Panther placed stone in the upper portion of TSC to restore the stream channel after sediment removal activities. Prior to placing stone, coir matting was installed in the channel to assist in stabilizing the channel. After placing the stone, coir logs were staked into the side-slopes of the stream channel to assist in stabilizing the banks. The field map from June 25, 2008, depicts the layout of these restoration activities. Where the mini-excavator was approved for use in the upper third of the TSC channel, all attempts were made to retain the natural rocky substrate of the spring using the existing rocks in the stream, not imported material, to minimize the impact to the stream bank as requested by the Agencies. Figure 1 provides the asbuilt, final stream grade along with pictures showing, comparatively, both pre-existing and post-excavation stream conditions for both the FWDD and TSC. Figure 2 depicts channel lining and restoration features emplaced at the TSC.

The Centre County Conservation District did not require an Erosion and Sediment Control Plan for this project. An Army Corps representative was on-site on behalf of the USEPA to observe restoration activities and was satisfied with the restoration.

3.7.2 ROC Property Restoration

On September 23, 2008, prior to off-loading sediment from the dewatering pad for disposal, Panther transferred any remaining residual material from within the secondary containment area, which was used as a temporary sedimentation basin, to the dewatering pad. Prior to Panther's remobilization, ROC personnel decanted the remaining water from the secondary containment area to the groundwater treatment system. The secondary containment area was then decontaminated by washing with a high pressure hose and residual fluids were transferred to the groundwater treatment system.

After all sediment had been completely off-loaded for disposal, the dewatering pad was disassembled and the entire asphalt pad on top of which the dewatering pad sat was cleaned by washing with a high pressure hose. Any residual sediment was transferred by hand shovel to a dump truck with other off-loaded sediment for disposal and the entire area cleaned with a high pressure hose. Residual fluids were transferred to the groundwater treatment system.

3.7.3 Private Property Restoration

A load of pea gravel was also delivered to the TSC area to restore the driveway at 203 Pike Street which was used as the access way to TSC.

3.8 Decontamination

All equipment used for excavation or soil handling activities was decontaminated prior to initial use at the Site, between usage at the FWDD and TSC excavation locations, and prior to final demobilization from the Site. Equipment directly contacting soil was cleaned by a high pressure hose or other methods. Decontamination was performed at the existing decontamination pad located on the ROC property. All liquids generated during decontamination and draining of sediments were conveyed to the on-site groundwater treatment plant for treatment and disposal.

4.0 POST-REMEDIATION SAMPLING AND DISPOSAL

The following subsections describe post-remediation sampling and disposal activities. All samples were collected in accordance with the Sampling and Analysis Plan and Quality Assurance provided as appendices to the RAP.

4.1 Post-Excavation Confirmatory Sampling

In areas where post-excavation sediments/soils at a depth of more than 2 feet remained, post-excavation confirmation samples were collected to ensure remaining soils met the cleanup levels specified in the ROD to be protective of groundwater. These locations only occurred in the TSC. As such, no post excavation samples were obtained from the FWDD. On June 18, 2008, in the upper portion of the TSC, three (3) post-excavation confirmation samples were collected: TSC01-61808, TSC02-61808, and TSC03-61808. Figure 3 depicts the sample locations. A field duplicate of TSC02-61808 was collected and denoted as FD01-61808.

Samples were analyzed by TestAmerica in North Canton, Ohio, for mirex and kepone in accordance with USEPA SW-846 Method 8081A, following extraction by USEPA SW-846 Method 3540 (Soxhlet Extraction). Laboratory analytical data for the samples are summarized on Table 1 and have been provided in Appendix C. A data validation report is provided in Appendix D.

Kepone was detected in samples TSC01-61808, TSC02-61808, and TSC03-61808 at concentrations of 190 μ g/kg, 580 μ g/kg, and 930 μ g/kg, respectively. These concentrations are well below the site specific clean-up standard of 72,737 μ g/kg for kepone in the 2007 AOC.

Mirex was only detected in sample TSC01-61808 at a concentration of 3.5 μ g/kg. Mirex was not detected above laboratory method detect limits in samples TSC02-61808 and TSC03-61808. This concentration is well below the site specific clean-up standard of 33,062 μ g/kg for mirex in the 2007 AOC.

4.2 Sediment Characterization Sampling

On June 25, 2008, Golder personnel collected two composite samples (WP01-062508 and WP02-062508) from the sediment pile for waste profiling purposed. The June 25, 2008 Field Map depicts the locations of these composite samples. Samples were analyzed for volatile organic

compounds (VOCs), toxicity characteristic leaching procedure (TCLP) [VOCs, semivolatile organic compounds (SVOCs), metals, and pesticides/herbicides], Ignitability, total cyanide, total sulfide, pH, paint filter, total organic halogens (TOX), mirex, and kepone. Table 2 provides a summary of these results. Laboratory analytical data packages have been provided in Appendix C, and a data validation report is provided in Appendix D.

4.3 Sediment Disposal

Based on the analytical testing results of characterization samples, OU-2 sediments from the FWDD and the TSC were transported, and disposed as non-hazardous waste to Wayne Township Landfill in McElhattan, Pennsylvania. USEPA approval of disposal at this location was provided in a letter to Golder, dated August 25, 2008. Sediment was removed from the Site for disposal by Panther on September 23, 2008. USEPA approval and all shipping and disposal documentation (such as bill of ladings) is provided as Appendix E.

Golder Associates

5.0 SUMMARY AND CONCLUSION

As required in the 2007 AOC, fine-grained sediments/soils were removed, as practical, to a depth of 2 feet to be protective of environmental receptors. Much of the extent of excavation was limited by the occurrence of bedrock at depths shallower than 2 feet. The upper portion of the TSC was the only area of excavation in which sediments/soils remained below a depth of 2 feet after excavation. Since sediment/soils were left in place in this upper portion of the TSC, three post-excavation confirmatory samples were collected and analyzed for mirex and kepone. Post-excavation confirmatory samples were not collected from the FWDD as excavation activities were limited by the presence of bedrock at depths shallower than 2 feet.

Results from post-excavation confirmatory samples did not exceed the standards required by the 2007 AOC and are therefore protective of environmental receptors and impacts to groundwater. Furthermore, this residual sediment/soil remaining in place has been contained by lining the excavated areas and employing approved erosion control measures to prevent future impact to the downgradient stream system.

6.0 REFERENCES

- Golder Associates, Inc., 2003. Potential Sediment Removal Action, Centre County Kepone Site Letter, August 2003.
- Golder Associates, Inc., 2007. Sediment Removal Action, Confirmation of Site conditions, Centre County Kepone Site Letter, June 7, 2007.
- Golder Associates, Inc., 2007. Response Action Plan, Centre County Kepone Site, State College, Pennsylvania, July 2007.
- Golder Associates, Inc., 2007. Response Action Design Report, Centre County Kepone Site, State College, Pennsylvania, October 2007.
- USEPA, 1988. Administrative Order of Consent, Docket No. III-88-22-DC, November 7, 1988.
- USEPA, 1995. Record of Decision for the Centre County Kepone Site, April 1995.
- USEPA, 2007. Administrative Settlement and Order on Consent for Removal Response Action for the Centre County Kepone Site, Docket No. CERC-03-2007-0008DC, May 7 2007.

Golder Associates

- 18 -November 2008 963-6333

7.0 CERTIFICATION

Except as provided below, I certify that the information contained in or accompanying this Remedial Action Report is, to the best of my knowledge, information, and belief, true, accurate and complete.

As to those portions of this submission for which I cannot personally verify the accuracy, I certify that this submission and all attachments were prepared at the direction of Settler's Project Coordinator, in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of Settler's Project Coordinator, the information is true, accurate and complete to the best of my knowledge, information and belief.

I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations.

Name: Dr Raino F. Domalshi.

Title: President & CEO

Golder Associates





Table 1 Pre - and Post- Excavation Analytical Results Centre County Kepone Site State College, PA

Analyte: Units: Action Level:				Kepone ug/kg 72737			Mirex ug/kg 33062			% Moisture percent NA	
Location	Sample Depth	Date Sampled	Result	Qual	RL	Result	Qual	RL	Result	Qual	RL
Pre-Excavation Samples											
TSC01-062007-06	0 - 6 inches	6/20/2007	510	В	230	59	J	23	28		
TSC01-062007-12	6 - 12 inchees	6/20/2007	260	В	98	5.9	J	9.8	33		
TSC02-062007-06	0 - 6 inches	6/20/2007	470		91	17	J	9.1	28		
TSC03-062007-06	0 - 6 inches	6/20/2007	420	J	110	14	J	11	39		
TSC03-062007-06D	0 - 6 inches	6/20/2007	860	В	280	140	K	28	41		
TSC03-062007-20	18 - 20 inches	6/20/2007	3700	K	910	< 91	U	91	27		
Post-Excavation Samples	S										
TSC01-61808		6/18/2008	190	J	39	3.5	J	3.9	16		
TSC02-61808		6/18/2008	580	j	94	< 9.4	U	9.4	30		
FD01-61808 (TSC02)		6/18/2008	150	В	91	< 9.1	U	9.1	28		
TSC03-61808		6/18/2008	930	K	89	< 8.9	U	8.9	26		

Notes:

NA = Not Applicable

Mirex and Kepone Action Levels taken from Table 9 - Soil and Sediment Clean-up Levels ADMINSTRATIVE SETTLEMENT & ORDER ON CONSENT FOR REMOVAL RESPONSE ACTION

- DOCKET NO. 03-2007-0008DC

Qualifier Definitions:

J = Estimated value

K = Estimated value, biased high

B = Blank contamination

U = Undetected

Table 2
Disposal Sample Analytical Results
Centre County Kepone Site
State College, PA

		Sample		01-06250	WP02-062508					
<u> </u>	Sa	mple Date:	6/	6/25/2008			6/25/2008			
	Regulatory									
Analyte	Level	Units	Result	Qual	RL	Result	Qual	RL		
TCLP Volatile Organic Compounds										
1,2-Dichloroethane	0.5	mg/l	< 0.025	U	0.025	< 0.025	U	0.025		
Chlorobenzene	100	mg/l	< 0.025	U	0.025	< 0.025	U	0.025		
Tetrachloroethylene	0.7	mg/l	< 0.07	U	0.07	< 0.07	U	0.07		
Carbon tetrachloride	0.5	mg/l	< 0.025	U	0.025	< 0.025	U	0.025		
Chloroform	6	mg/l	< 0.025	U	0.025	< 0.025	U	0.025		
Benzene	0.5	mg/l	< 0.025	U	0.025	< 0.025	U	0.025		
Vinyl chloride	0.2	mg/l	< 0.025	U	0.025	< 0.025	U	0.025		
1,1-Dichloroethylene	0.7	mg/l	< 0.07	U	0.07	< 0.07	U	0.07		
2-Butanone (MEK)	200	mg/l	< 0.25	U	0.25	< 0.25	U	0.25		
Trichloroethylene	0.5	mg/l	< 0.05	U	0.05	< 0.05	U	0.05		
Total Volatile Organic Compounds										
Ethylbenzene	NS	ug/kg	< 5.9	U	5.9	1.1	В	5.6		
Styrene	NS	ug/kg	< 5.9	U	5.9	1.3	В	5.6		
cis-1,3-Dichloropropene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
trans-1,3-Dichloropropene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
1,4-Dichlorobenzene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
1,2-Dichloroethane	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
4-Methyl-2-pentanone	NS	ug/kg	< 24	U	24	< 22	U	22		
Toluene	NS	ug/kg	< 5.9	Ū	5.9	< 5.6	Ū	5.6		
Chlorobenzene	NS	ug/kg	< 5.9	U	5.9	< 5.6	Ū	5.6		
1,2,4-Trichlorobenzene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
Dibromochloromethane	NS	ug/kg	< 5.9	Ü	5.9	< 5.6	Ū	5.6		
Tetrachloroethene	NS	ug/kg	< 5.9	U	5.9	< 5.6	Ū	5.6		
Xylenes (total)	NS NS	ug/kg	< 12	U	12	3.5	В	11		
cis-1,2-Dichloroethene	NS.	ug/kg	0.69	J	5.9	< 5.6	Ū	5.6		
trans-1,2-Dichloroethene	NS	ug/kg	0.92	J	5.9	< 5.6	Ū	5.6		
1,3-Dichlorobenzene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
Carbon tetrachloride	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
2-Hexanone	NS	ug/kg	< 24	U	24	< 22	U	22		
Acetone	NS NS	ug/kg	< 24	Ü	24	< 22	U	22		
Chloroform	NS NS	ug/kg	< 5.9	Ü	5.9	< 5.6	Ü	5.6		
Benzene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
1,1,1-Trichloroethane	NS	ug/kg ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
Bromomethane	NS NS	ug/kg ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
Chloromethane	NS	ug/kg ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
Chloroethane	NS NS	ug/kg ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
	NS NS		< 5.9	U	5.9	< 5.6	U	5.6		
Vinyl chloride	NS NS	ug/kg	< 5.9 < 5.9	 		< 5.6	U			
Methylene chloride		ug/kg		U	5.9			5.6		
Carbon disulfide	NS NC	ug/kg	0.61	J	5.9	0.59	J	5.6		
Bromoform	NS NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
Bromodichloromethane	NS NC	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
1,1-Dichloroethane	NS NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
1,1-Dichloroethene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
1,2-Dichloropropane	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		
2-Butanone	NS	ug/kg	< 24	U	24	< 22	U	22		
1,1,2-Trichloroethane	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6		

Table 2
Disposal Sample Analytical Results
Centre County Kepone Site
State College, PA

		Sample		01-06250	8		02-06250	8
		mple Date:	6/	25/2008		6/	25/2008	
Analyte	Regulatory Level	Units	Result	Qual	RL	Result	Qual	RL
Trichloroethene	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6
1,1,2,2-Tetrachloroethane	NS	ug/kg	< 5.9	U	5.9	< 5.6	U	5.6
1,2-Dichlorobenzene	NS	ug/kg	< 5.9	Ü	5.9	< 5.6	U	5.6
TCLP Semivolatile Organic Compo								
1.4-Dichlorobenzene	7.5	mg/l	< 0.004	U	0.004	< 0.004	Ü	0.00
Pyridine	5	mg/l	< 0.02	U	0.02	< 0.02	Ü	0.02
Hexachlorobenzene	0.13	mg/l	< 0.02	Ü	0.02	< 0.02	Ü	0.02
2,4-Dinitrotoluene	0.13	mg/l	< 0.02	U	0.02	< 0.02	U	0.02
Hexachloroethane	3	mg/l	< 0.02	U	0.02	< 0.02	U	0.02
Hexachlorobutadiene	0.5	mg/l	< 0.02	Ü	0.02	< 0.02	U	0.02
Pentachlorophenol	100	mg/l	< 0.04	Ū	0.04	< 0.04	U	0.04
2,4,6-Trichlorophenol	2	mg/l	< 0.02	U	0.02	< 0.02	<u>U</u>	0.02
o-Cresol	200	mg/l	< 0.004	U	0.004	< 0.004	Ū	0.00
2,4,5-Trichlorophenol	400	mg/l	< 0.02	U	0.02	< 0.02	Ū	0.02
Nitrobenzene	2	mg/l	< 0.004	Ü	0.004	< 0.004	Ü	0.00
m-Cresol & p-Cresol	200	mg/i	< 0.04	U	0.04	< 0.04	U	0.04
TCLP Pesticides and Herbicides	1 200		0.01			0.07		0.0
Heptachlor epoxide	0.008	ma/l	< 0.0005	U	0.0005	< 0.0005	U	0.000
Chlordane (technical)	0.008	mg/l	< 0.005	Ü	0.0005	< 0.005	U	0.00
Lindane (technical)	0.03	mg/l		Ü	0.005	< 0.0005	U	0.000
Lindarie Endrin	0.02	mg/l	< 0.0005 < 0.0005	U	0.0005	< 0.0005	U	0.000
Methoxychlor	10	mg/l mg/l	< 0.0005	.U	0.0003	< 0.0005	U	0.00
Heptachlor	0.008	mg/l	< 0.0005	U	0.0005	< 0.0005	U	0.000
Toxaphene	0.008	mg/l	< 0.00	U	0.0003	< 0.00	U	0.00
2,4,5-TP (Silvex)	1	mg/l	< 0.02	Ü	0.02	< 0.02	U	0.02
2,4,3-17 (Silvex) 2,4-D	10		< 0.5	ΩJ	0.1	< 0.5	UJ	0.1
<u> </u>	 	mg/l	<u> </u>	UJ	0.5	7 0.5		0.5
Total Pesticides	 		500			000		1 070
Kepone	NS NS	ug/kg	500		390	660	J	370
Mirex	NS	ug/kg	72	J	39	88	J	37
Total Polychlorinated Biphenyls								
Aroclor 1260	NS	ug/kg	< 33	U	33	< 33	U	33
Aroclor 1254	NS	ug/kg	< 33	U	33	< 33	U	33
Aroclor 1221	NS	ug/kg	< 33	U	33	< 33	U	33
Aroclor 1232	NS	ug/kg	< 33	U	33	< 33	U	33
Aroclor 1248	NS	ug/kg	< 33	U	33	< 33	U	33
Aroclor 1016	NS	ug/kg	< 33	U	33	< 33	U	33
Aroclor 1242	NS	ug/kg	< 33	U	33	< 33	U	33
TCLP Metals								
Lead	5	mg/l	< 0.5	U	0.5	< 0.5	U	0.5
Silver	5	mg/l	< 0.5	U	0.5	< 0.5	U	0.5
Arsenic	5	mg/l	< 0.5	U	0.5	< 0.5	U	0.5
Baríum	100	mg/l	< 10	U	10	< 10	U	10
Cadmium	1	mg/l	< 0.1	U	0.1	< 0.1	U	0.1
Chromium	5	mg/l	< 0.5	U	0.5	< 0.5	U	0.5
Selenium	1	mg/l	< 0.25	U	0.25	< 0.25	U	0.25
Mercury	0.2	mg/l	< 0.002	U	0.002	< 0.002	U	0.00

Table 2 Disposal Sample Analytical Results Centre County Kepone Site State College, PA

	Sa	Sample Sample Date:		WP01-062508 6/25/2008			WP02-062508 6/25/2008		
Analyte	Regulatory Level	Units	Result	Qual	RL	Result	Qual	RL	
Waste Characteristics									
Percent Solids	NS	percent	84.2		10	89.8		10	
Corrosivity (pH)	2 - 12.5	pH Units	8			8			
Cyanide, Total	NS	mg/kg	< 0.5	U	0.5	< 0.5	U	0.5	
Flashpoint	> 140	deg f	>180			>180			
Oil and Grease (Gravimetric)	NS	mg/kg	< 200	U	200	< 200	U	200	
Paint Filter Test	NEG	percent	NEG		0.1	NEG		0.1	
Total Extractable Organic Halogens	NS	mg/kg	< 200	U	200	< 200	U	200	
Total Sulfide	NS	mg/kg	< 30	U	30	< 30	U	30	

Notes:

Notes:

NS = No Standard Available

Qualifier Definitions:

J = Estimated value

K = Estimated value, biased high

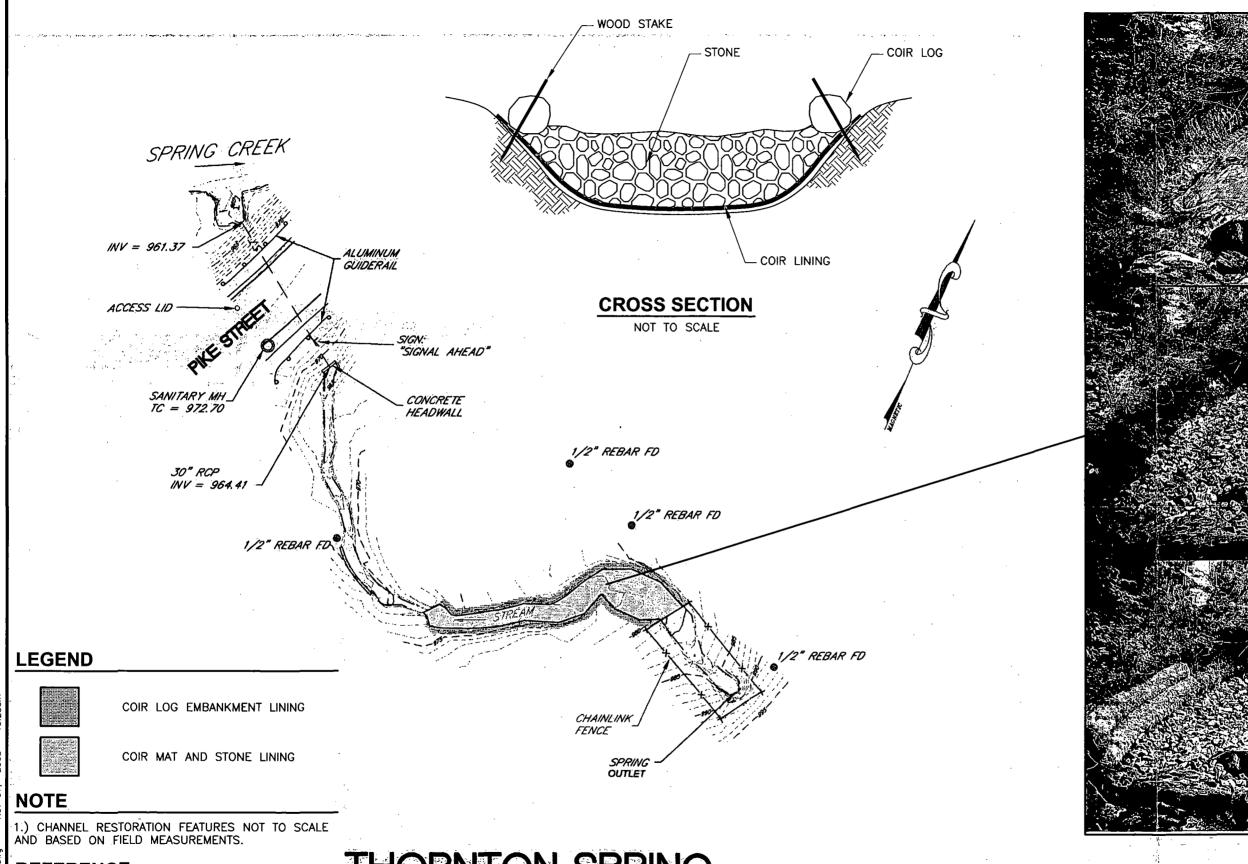
B = Blank contamination

U = Undetected

UJ = Undetected, estimated reporting limit

SDMS US EPA Region III Imagery Insert Form

	Site Name: OVIVE COUNTY RAPORIL SIT Document ID: 2100468
	Some images in this document may be illegible or unavailable in SDMS. Please see reason(s) indicated below:
	ILLEGIBLE due to bad source documents. Images(s) in SDMS equivalent to hard copy.
البيا	Specify Type of Document(s) / Comments:
	Includes COLOR or RESOLUTION variations. Unless otherwise noted, these pages are available in monochrome. The source document page(s) is more legible than the images. The original document is available for viewing at the Superfund Records Center.
	Specify Type of Document(s) / Comments:
	RESTRICTED CONFIDENTIAL BUSINESS INFORMATION (CBI-R): Restricted or copyrighted documents that cannot be imaged.
	Specify Type of Document(s) / Comments:
X	UNSCANNABLE MATERIAL: Oversized or Format. Due to certain scanning equipment capability limitations, the document page(s) is not available in SDMS. The original document is available for viewing at the EPA Region 3 Superfund Records Center.
•	Specify Type of Document(s) / Comments:
	Figure 1 - Pre-Pemoruation & Post Remedication Actives
X	Document is available at the EPA Region 3 Superfund Records Center.
	Specify Type of Document(s) / Comments:



REFERENCE

1.) MAP SCANNED FROM HARDCOPY OF SHEET 1 OF 1, PROJECT NO. 4252 G, DRAWING NO. D-9108, TITLED VOLUME REPORT FOR SEDIMENT DITCH ALONG STATE ROUTE 26 AND THE THORNTON SPRING," PROVIDED BY SWEETLAND ENGINEERING & ASSOCIATES, INC., DATED JULY 1, 2008.

THORNTON SPRING

					′5
	NJ Authorization #2	24GA280291	OO SCALE	N.T.S.	ήn
	Golder		DATE	11/07/08	(
7	Associat	Pg	DESIGN	CL	
	Philadelphia US		CADD	AM	
FILE No.	963633	3R011	CHECK	VEF	⊢
PROJECT No.	963-6333	REV. 0	REVIEW	FG	

CHANNEL LINING AND RESTORATION OU-2 SEDIMENT REMEDIAL ACTION REPORT

RUTGERS ORGANICS CORP. AR10 4347

2

LEGEND

 \otimes

POST-EXCAVATION CONFIRMATION SOIL SAMPLE LOCATION

NOTES

- 1.) SOIL SAMPLE RESULTS IN MICROGRAMS PER KILOGRAM (ug/kg).
- 2.) SAMPLE LOCATIONS BASED ON FIELD MEASUREMENTS.

REFERENCE

1.) MAP SCANNED FROM HARDCOPY OF SHEET 1 OF 1, PROJECT NO. 4252 G, DRAWING NO. D-9108, TITLED VOLUME REPORT FOR SEDIMENT DITCH ALONG STATE ROUTE 26 AND THE THORNTON SPRING," PROVIDED BY SWEETLAND ENGINEERING & ASSOCIATES, INC., DATED JULY 1, 2008.

THORNTON SPRING

	· · · · · · · · · · · · · · · · · · ·					
	NJ Authorization	24GA280	29100	SCALE	N.T.S.	П
	Golder	,		DATE	11/07/08	
7	Associa			DESIGN	CL	
	Philadelphia U			CADD	AM]
FILE No.	96363	33R01	10	CHECK	VEF	┝
PROJECT No.	963-6333	REV.	0	REVIEW	FG	l

POST-EXCAVATION CONFIRMATION SAMPLE LOCATIONS OU-2 SEDIMENT REMEDIAL ACTION REPORT

RÜTGERS ORGANICS CORP.

APPENDIX A SUMMARY OF DAILY FIELD ACTIVITIES AND DAILY FIELD REPORTS

SUMMARY OF DAILY FIELD ACTVITIES
OU-2 SEDIMENT REMEDIAL ACTION REPORT
CENTER COUNTY KEPONE SITE
STATE COLLEGE, PENNSYLVANIA

May 27, 2008

Approximately 1,500-gallons of sediment/water were removed from the upper 40 linear feet of the TSC. Sediment and water was allowed to sit in the vac truck overnight to allow sediments to settle.

May 28, 2008

Approximately 3,500-gallons of sediment/water were removed from approximately 15 linear feet of the upper portion of the TSC. Approximately 1,500-gallons of sediment/water from the first load were pumped off into the treatment systems dirt backwash tank.

May 29, 2008

Approximately 3,000-gallons of sediment/water were removed from the upper portion of Thornton Spring. Sediment/water was pumped into the concrete-lined former secondary containment area. The former secondary containment area was used this date forward as a temporary sedimentation basin, so that sediment could settle out overnight, and then on the following day water could be decanted off to the groundwater treatment system. Solid sediments were off-loaded directly onto the dewatering pad. Approximately ½ to ¾ of a cubic yard of sediment was removed from the vac truck and placed on the dewatering pad.

May 30, 2008

No sediment removal activities were conducted.

June 2, 2008

Panther began sediment removal activities in the FWDD. Approximately 3,000-gallons of sediment/water were removed from the upper portion of the FWDD.

June 3, 2008

Approximately 1,500-gallons of suspended sediment/water and 8 to 10 cubic yards of solid sediments were removed from approximately 100 linear feet of the upper portion of the FWDD. Dewatered sediments were off-loaded onto the dewatering pad.

June 4, 2008

Approximately 2,000-gallons of suspended sediment/water and approximately 2 to 3 cubic yards of dewatered sediments were removed from approximately 40 linear feet of the upper portion of the FWDD.

June 5, 2008

Approximately 3,000-gallons of suspended sediment/water and approximately 3 to 4 cubic yards of dewatered sediments were removed from approximately 120 linear feet of the upper portion of the FWDD.

June 6, 2008

Approximately 1,500-gallons of suspended sediment/water and approximately 2 cubic yards of dewatered sediments were removed from approximately 70 linear feet of the upper portion of the FWDD.

June 9, 2008

Approximately 1,000-gallons of suspended sediment/water and approximately 1 to 2 cubic yards of dewatered sediments were removed from approximately 30 linear feet of the upper portion of the FWDD.

June 10, 2008

Approximately 500-gallons of suspended sediment/water and approximately 2 to 3 cubic yards of dewatered sediments were removed from approximately 70 linear feet of the upper portion of the FWDD.

June 11, 2008

Approximately 500-gallons of suspended sediment/water and approximately 7 cubic yards of dewatered sediments were removed from approximately 55 linear feet of the upper portion of the FWDD.

June 12, 2008

Approximately 1,000-gallons of suspended sediment/water and approximately 7 cubic yards of dewatered sediments were removed from approximately 80 linear feet of the upper portion of the FWDD.

June 13, 2008

Approximately 1,000-gallons of suspended sediment/water and approximately 2 cubic yards of dewatered sediments were removed from approximately 85 linear feet of the upper portion of the FWDD.

June 16, 2008

Approximately 20 to 25 cubic yards of sediments were removed from approximately 60 linear feet of the upper portion of the TSC using traditional excavation methods.

June 17, 2008

Approximately 5 to 6 cubic yards of solid sediments and approximately 100-gallons of suspended sediments were removed from approximately 214 linear feet of the FWDD.

June 18, 2008

Approximately 15 to 18 cubic yards of solid sediments were removed from the TSC using the mini-excavator and loaded it into a roll-off container. This material was then off-loaded to the dewatering pad.

June 19, 2008

Approximately 400-gallons of suspended sediment/water and approximately 10 cubic yards of solid sediments were removed from approximately 310 linear feet of the upper portion of the FWDD.

June 20, 2008

Approximately 400-gallons of suspended sediment/water and approximately 1 cubic yard of solid sediments were removed from approximately 140 linear feet of the TSC.

June 23, 2008

Approximately 5 to 6 cubic yards of solid sediments and approximately 2,500-gallons of suspended sediments were removed from approximately 100 linear feet of the FWDD along Route 26 and 60 linear feet of the FWDD outlet to Spring Creek.

June 24, 2008

Approximately 3 to 4 cubic yards of solid sediments and approximately 5,600-gallons of suspended sediments were removed from approximately 20 linear feet of the TSC.

June 25, 2008

No sediment removal activities were conducted.

GOLDER ASSOCIATES, INC.

CQA Daily Summary Report SHEET 1 OF 1

DATE: April 22 2008 SM(T)WTFS

PROJECT NUMBER: 963-6333 LOCATION: State College, Pennsylvania

PROJECT TITLE: OU-2 Sediment Removal Action CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 50's am., Upper Go's p.m.
Cloud cover: Partly cloudy Precipitation: None

Wind: Light + variable

GAI PERSONNEL ON SITE: Kent McCaller

GAI Arrival/Departure: 0900/1545

PANTHER PERSONNEL ON SITE: Steve Inzerna, Malvh Sharpe Told Vail PANTHER Arrival/Departure: 1020/1510

EQUIPMENT:
F-150 Pickup, F-250 Pickup w/ equipment box trailer, F-550 Pickup w/ flat bed
trailer, T320 Turbo Bobcat

SUMMARY OF REMEDIATION ACTIVITY:

Unloaded equipment; received a load of key bales to be used in construction of the sediment demotering pad; t began construction of the demotering pad.

GAI ACTIVITIES:

Reviewed access to TSC. Oversaw construction of the devatery pad.

SUMMARY OF SURVEYOR'S ACTIVITIES:

Sweetland Engineers (sub to Panther) on-site C TSC + FWDD to perform pre-construction survey

SUMMARY OF PHOTOGRAPHS TAKEN:
Two photos taken of the Parthally completed devatering pad, looking south

SUMMARY OF PROBLEMS AND RESOLUTIONS:

NA

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Kick off Health & Safety breifing - GAI & Panther on-site personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

NA

SUBMITTED BY GAI

Kern McCalles 4/22/08

Xt. nl

AR100354

GOLDER ASSOCIATES, INC.

COA Daily Summary Report SHEET 1 OF 1

DATE: Apr. (23, 2008 SMT(W)TFS

PROJECT NUMBER: 963-6333 LOCATION: State College, Pennsylvania PROJECT TITLE: OU-2 Sediment Removal Action CONTRACTOR: Panther Technologies, Inc.

A STATE OF THE STA

WEATHER:

Temperature: upper 40's am 70's pm.
Cloud cover: clear am Precipitation
partly cloudy pm

Precipitation: Themlers toms Wind: light + variable
after 1500 anth during To

gusty during Thunderstorms

GAI PERSONNEL ON SITE: Kirin McCallin

GAI Arrival/Departure: 0655/1530

PANTHER PERSONNEL ON SITE: Steve Inzerna, Malon Sharpe, + Todd Vall PANTHER Arrival/Departure: 0700/1510

EQUIPMENT: F-150 Pick up, F-250 pick up, equipment box trailer, F-550 Prokyout flat bud trailer, + T320 Turba Bobcat

SUMMARY OF REMEDIATION ACTIVITY; Parther day a sung in the down gradient corner of the detatering pad + constructed the access to Thornton Spring. Access construction included placing fabriz + 1.5-2 in Stone, + silt Fencing on the down-slope GAI ACTIVITIES: 5-de. Observed continued construction of the demotering pad & construction of the access to Thornton Spring.

SUMMARY OF SURVEYOR'S ACTIVITIES: Sweetland Engineers (Parther Sab.) continued pre-construction survey of TSC + FWDD

SUMMARY OF PHOTOGRAPHS TAKEN:

Photos taken of devations pad, pre-construction conditions of the TSC access,

Construction of the access of the completed access

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Grandwater treatment system is not working properly (pump in MW-61) Kieps

Shutting off). It appears that the pump may need to be replaced (determination of pump replacement will be made to pump. After consulting with Pantler, ROC

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

OVER 1

Daily H&S meeting - GAI + Parther Personal

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

Kern McCallen 2 T. Da 4/23/08

COA Daily Summary Report SHEET 1 OF 1

DATE: April 24, 2008 SMTWDFS

PROJECT NUMBER: 963-6333

LOCATION: State College, Pennsylvania

PROJECT TITLE: OU-2 Sediment Removal Action CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 40's a.m. 70 s p.m.

Cloud cover: clase

Precipitation: None Wind: None

GAI PERSONNEL ON SITE: K. McCulle

GAI Arrival/Departure:

0700/1345

PANTHER PERSONNEL ON SITE: 5. Inzerna M. Sharpe

PANTHER Arrival/Departure: 0715/0745

EQUIPMENT:

F-250, Equipment box trailer, F-550 W/ Flat bed trailer, T320 Bobcat

Finished staging equipment for work next week & picked up

F-550 w/ flat bed trailer. Only equipment left on site are the equipment
box trailer + T320 Bobcat

GAI ACTIVITIES:

ALACTIVITIES:
Took pre-construction photos of FWDD & TSC. Pump in MW-GD will be replaced tomorrow 4/25. Cheryl Sinclair (PADED), who was supposed to be an-site today, called & said she would not be coming.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

Pre- Construction photos at Fixible - TSC

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily Health + Safety meeting

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

4/24/08

Ka. W

CQA Daily Summary Report SHEET 1 OF 1

DATE: April 28,2008 SMTWTFS

PROJECT NUMBER: 963-6333

LOCATION: State College, Pennsylvania

PROJECT TITLE: OU-2 Sediment Removal Action CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 50,

Cloud cover: cloudy

Precipitation:

Wind: Mone

GAI PERSONNEL ON SITE: Karm McCallas

GAI Arrival/Departure: 0900/1619

PANTHER PERSONNEL ON SITE: Steve In zerma John McCracken, Malrin Shapec. Mike PANTHER Arrival/Departure: Branks from Panther sub Environmental Recovery Corp. (Vac Tinck)

EQUIPMENT: F-250, F-550 with Flat bud trailer (traffic control equipment), equipment box trailer

T320 Turbo Bobcat, & Vacuum Truck

SUMMARY OF REMEDIATION ACTIVITY:
Staged traffic control equipment by dewatering pad. Drained dewatering pad of rain water that collected over the weekend.

GAI ACTIVITIES: Frank Klanchar (EPA), Jim Harbert (Army Corps), Tom Conway (Army Corps) on-site; K. McCallan shows them around FWDD + TSC. Met up with Mark Hartle + Heather Smiles (PFBC) @ TSC. Up date them on project status + planed activities. Cheryl Sinclair (PADEP) on-site.

SUMMARY OF SURVEYOR'S ACTIVITIES:

NA

SUMMARY OF PHOTOGRAPHS TAKEN: N/A

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Pump in Mw-CD is vorking but due to heavy rain we can't dewater TSC.

Plump in Mw-CD is vorking but due to heavy rain we can't dewater TSC.

Also due to heavy rain FWDD has too much the surface water ranoff to pump

Around No remark activities will account to day.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Doily Health & Safety meeting.

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

Kern McCaller Kod. al April 28 2008

CQA Daily Summary Report SHEET 1 OF 1

DATE: April 29, 2008 SMIWTFS

PROJECT NUMBER: 963-6333 LOCATION: State College, Pennsylvania PROJECT TITLE: OU-2 Sediment Removal Action CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 40, Cloud cover: Cloud

Precipitation: $N_{0} \sim 0$ Wind: $N_{0} \sim 0$

GAI PERSONNEL ON SITE: Kenn McCalla

GAI Arrival/Departure: 9700/0930

PANTHER PERSONNEL ON SITE: Steve Interna John McCrocker, Melvin Sharpe, & PANTHER Arrival/Departure: Mike Brooks (shi - ERC)

EQUIPMENT: F-550 w/flat bed trailer, equipment box trailer, T320 Turbo Bobcat, + Vac. Track

SUMMARY OF REMEDIATION ACTIVITY: Stored traffiz control equipment in Box Trailer + secured the site for the week. No sediment removal activities will be performed this week due

to heavy rains recently.

MAIAUTIVITIES:
Notified client + Azercias (EPA, DEP, PFBC, + Army Cogo) that no removal activities will be conducted this wark. Let them know that I will keep them up dated an project schedule. GAI ACTIVITIES:

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

SUMMARY OF PROBLEMS AND RESOLUTIONS: Unable to perform sediment removal activities due to recent

SUMMÁRY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Dally Health & Safety meeting

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

SUBMITTED BY GAI

Kern McCuller 25 h

April 29, 2008

CQA Daily Summary Report SHEET 1 OF 1

DATE: April 22, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 50s a.m., upper 60s p.m.

Cloud cover:

Partly cloudy Pr

Precipitation: None

Wind: Light and variable

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0900 / 1545

PANTHER PERSONNEL ON SITE: Steve Inzerma, Melvin Sharpe, and Todd Vail

PANTHER Arrival/Departure: 1020 / 1510

EQUIPMENT: F-150 pickup, F-250 with equipment box trailer, F-550 with flat-bed trailer, and T320 Turbo

Bobcat

SUMMARY OF REMEDIATION ACTIVITY:

Panther unloaded and staged equipment near the sediment dewatering pad; received a load of hay bales (36) to be used to construct the sediment dewatering pad; and began construction of the dewatering pad/

GAI ACTIVITIES:

Walked access to Thornton Spring Channel (TSC) with Gary Davis (ROC) and observed construction of the dewatering pad

SUMMARY OF SURVEYOR'S ACTIVITIES:

Sweetland Engineers (subcontractor to Panther) on-site at TSC and the Fresh Water Drainage Ditch (FWDD) to commenced the pre-construction survey.

SUMMARY OF PHOTOGRAPHS TAKEN:

Two photos taken of the partially completed dewatering pad, looking east/

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Joint kick-off health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin F. McCullen Kapril 22, 2008

CQA Daily Summary Report SHEET 1 OF 1

DATE: April 23, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: upper 40s a.m., 70s p.m.

Cloud cover: Clear a.m., partly cloudy in p.m. Precipitation: Thunderstorms after 1500

Wind: Light and variable, gusty during thunderstorms

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0655 / 1530

PANTHER PERSONNEL ON SITE: Steve Inzerma, Melvin Sharpe, and Todd Vail

PANTHER Arrival/Departure: 0700 / 1510

EQUIPMENT: F-150 pickup, F-250 with equipment box trailer, F-550 with flat-bed trailer, and T320 Turbo

Bobcat

SUMMARY OF REMEDIATION ACTIVITY:

Panther dug a sump in the downgradient corner of the sediment dewatering pad; and constructed the access to Thornton Spring. Access construction included placing fabric and 1.5-2 inch diameter stone, and silt fencing on the down-slope side of the access.

GAI ACTIVITIES:

Observed continued construction of the dewatering pad and construction of the access to Thornton Spring. Panther laid down fabric and 1.5-2 inch diameter stone to construct access to Thornton spring. Panther also installed silt fence on the down-slope side of the access.

SUMMARY OF SURVEYOR'S ACTIVITIES:

Sweetland Engineers (subcontractor to Panther) were on-site at TSC and the Fresh Water Drainage Ditch (FWDD) to continue the pre-construction survey.

SUMMARY OF PHOTOGRAPHS TAKEN:

Photos taken of the dewatering pad, pre-construction conditions of the TSC access, construction of the TSC access, and the completed TSC access way

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Groundwater treatment system is not working properly (pump in MW-6D keeps shutting down). It appears that the pump may need to be replaced (determination of pump replacement will be made by ROC tomorrow). After consulting with Panther, ROC, and USEPA; it was decided to conduct sediment removal activities in the FWDD starting Monday 4/28/2008 instead of in TSC as originally planned.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: $\ensuremath{\mathrm{N/A}}$

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin F. McCullen

COA Daily Summary Report SHEET 1 OF 1

DATE: April 24, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 40s a.m., 70s p.m.

Cloud cover: Clear

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0655 / 1345

PANTHER PERSONNEL ON SITE: Steve Inzerma and Melvin Sharpe

PANTHER Arrival/Departure: 0715/0745

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, and T320 Turbo Bobcat

SUMMARY OF REMEDIATION ACTIVITY:

Panther finished staging equipment by the dewatering pad. Equipment box trailer and T320 Bobcat were left onsite.

GAI ACTIVITIES:

Took pre-construction photographs of Thornton Spring Channel and the Fresh Water Drainage Ditch. Gary Davis (ROC) let me know that the pump in MW-6D would be replaced on Friday 4/25. If he gets the groundwater treatment system running, he will try to dewater Thornton Spring so we can removed the sediments from there as originally planned. If he cannot dewater Thornton Spring over the weekend, we will remove sediments from the Fresh Water Drainage Ditch. Cheryl Sinclair (PADEP) called and let me know that she would not be visiting the site today.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Pre-construction photos taken of Thornton Spring and the Fresh Water Drainage Ditch.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin F. McCullen Kann

April 24, 2008

CQA Daily Summary Report SHEET 1 OF 1

DATE: April 28, 2008 S **M** T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 50s

Cloud cover: Cloudy

Precipitation: Rain

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0900 / 1610

PANTHER PERSONNEL ON SITE: Steve Inzerma, John McCracken, and Melvin Sharpe. Mike Brooks from

Panther subcontractor Environmental Recovery Corp. (Vac Truck) also on-site.

PANTHER Arrival/Departure: 1000 / 1200

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther staged traffic control equipment by the dewatering pad. Panther also drained dewatering pad of rain water that collected over the weekend.

GAI ACTIVITIES:

Frank Klanchar (USEPA), Jim Harbart (Army Corps), and Tim Conway (Army Corps) arrived on site at about the same time as Kevin McCullen. Took Frank, Jim, and Tom on a tour of the Fresh Water Drainage Ditch (FWDD) and Thornton Spring Channel (TSC). While at the TSC, met up with Mark Hartle and Heather Smiles from the Pennsylvania Fish and Boat Commission at 1030. Showed them around and described how the upcoming work will be performed. Cheryl Sinclair (PADEP) arrived on site at 1100.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

N/A

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Although the pump in MW-6D (the well which can dewater TSC) was replaced on Friday 4/25, heavy rains over the weekend have made it difficult to dewater TSC with the groundwater treatment system, thus sediment removal activities cannot be performed in the TSC today. Also, due to the heavy rains, surface water runoff from surrounding upgradient areas has increased the flow in the FWDD to a level that cannot be controlled with the current pump around system, thus sediment removal activities cannot be performed there today.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin F. McCullen K. April 28, 2008

Veronica Foster \\(\mathcal{H}' \mathcal{H}'

CQA Daily Summary Report SHEET 1 OF 1

DATE: April 29, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 40s

Cloud cover: Cloudy

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0700 / 0930

PANTHER PERSONNEL ON SITE: Steve Inzerma, John McCracken, and Melvin Sharpe. Mike Brooks from

Panther subcontractor Environmental Recovery Corp. (Vac Truck) also on-site.

PANTHER Arrival/Departure: 0700/0750

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther stored traffic control equipment in the equipment box trailer and secured the site for the week. Panther will not be performing any sediment removal activities this week due to the recent heavy rains which have cause high water conditions in the TSC and FWDD.

GAI ACTIVITIES:

Notified Rainer Domalski (ROC), Steve Finn (Golder), Frank Klanchar (USEPA), Jim Harbart (Army Corps), Cheryl Sinclair (PADEP) and Heather Smiles (PFBC) that Panther will not be performing any sediment removal activities this week due to the recent heavy rains which have cause high water conditions in the TSC and FWDD. I let them know I would update them on the project schedule as soon as possible.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

N/A

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Unable to perform any sediment removal activities this week due to recent heavy rains which have cause high water conditions in the TSC and FWDD.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin F. McCullen A. April 29, 2008

CQA Daily Summary Report SHEET 1 OF 1

DATE: May 27, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 70s

Cloud cover: Overcast

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0900 / 1645

PANTHER PERSONNEL ON SITE: Steve Inzerma and Willy Brydges. Mike Brooks and Mike Lehman from

Panther's subcontractor, Environmental Recovery Corp. (Vac Truck), also on-site.

PANTHER Arrival/Departure; ERC on site 0925, Panther on-site 0940; Both off-site 1615

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Installed coir log erosion and sediment control filter in Thornton Spring Channel (TSC). Water still flowing in TSC so Panther set up a 2-inch trash pump to reduce flow (pumped from spring outfall, around work area, and discharged water downstream of work area). Began sediment removal activities in the TSC. Removed approximately 1,500-gal. of sediment/water from the upper 40 linear feet of Thornton Spring. Vac truck taken back to the on-site groundwater treatment plant. Sediment and water will sit in the Vac truck overnight to allow sediments to settle. The water will be pumped off to the treatment system tomorrow morning (May 28) and the sediment will be placed on the dewatering pad to drain further. Panther will continue sediment removal activities in TSC tomorrow May 28.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in TSC and Spring Creek. No visible suspended sediment noted in TSC downstream of the coir log filter or in Spring Creek from the sediment removal activities. Jim Harbert (Army Corps) and Steve Clawson (US Fish & Wildlife) on-site to observe sediment removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filter, and the sediment loading to TSC and Spring Creek (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen Kath

CQA Daily Summary Report SHEET 1 OF 2

DATE: May 28, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: upper 40s a.m.; 70 p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0655 / 1700

PANTHER PERSONNEL ON SITE: Steve Inzerma and Willy Brydges. Mike Brooks and Mike Lehman from

Panther's subcontractor, Environmental Recovery Corp. (Vac Truck), also on-site.

PANTHER Arrival/Departure: ERC on site 0705, Panther on-site 0703; Both off-site 1655

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

The suspended sediment/water was pumped off the Vac truck to the treatment system from yesterday's (May 27) removal activities. Panther set up a 2-inch trash pump to reduce flow (pumped from spring outfall, around work area and discharged water downstream of work area). A second 2-inch pump was installed initially to completely dewater Thornton Spring Channel (TSC) but was removed to allow some water flow to aid in the vacuuming of fine grained sediments (silt and clay size particles were bridging in the suction hose when no water was being pumped at the same time). Continued sediment removal activities in the TSC. Removed approximately 3,500-gal. of sediment/water from approximately 15 linear feet of the upper portion of Thornton Spring (see 5/28/08 field map). Approximately 1,500-gal. of sediment/water from the first load were pumped off into the treatment systems dirt backwash tank. Vac truck taken back to the groundwater treatment plant after second load to allow the approximately 2,000-gal. of sediments from the second load to settle overnight. The suspended sediment/water from the second load will be pumped off to the treatment system tomorrow morning (May 29) prior to further sediment removal efforts. Panther will continue sediment removal activities in TSC tomorrow May 29. No sediments have been placed on the dewatering pad yet.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in TSC and Spring Creek. No suspended sediment noted in TSC downstream of the coir log filter or in Spring Creek from the sediment removal activities during removal of the first ~1,500-gal. of sediment/water. Suspended sediment was noted at the outfall of the pipe under Pike Street, so a second coir log filter was added at the upstream end of the pipe. No suspended sediment noted in at the outfall under Pike Street or in Spring Creek from the sediment removal activities after installation of the second coir log filter. Heather Smiles (PFBC), Cheryl Sinclair (PADEP), Randy Farmerie (PADEP), and Steve Clawson (US Fish & Wildlife) on-site to observe sediment removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to TSC and Spring Creek (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

The treatment system capacity is currently at maximum storage capacity and sediments currently being removed from TSC are in suspension (the sediments are very fine-grained and water is needed to keep them from bridging in

CQA Daily Summary Report SHEET 2 OF 2

the vacuum hose). This is causing an issue with how to deal with the sediment/water being removed from TSC because 1) there is not enough space in the treatment system to store the amount of suspended sediment/water being removed; and, 2) the sediment content is such that it will continually foul the treatment systems bag filters thus shutting down the treatment system. After discussing this issue with Panther (Steve Inzerma and Brent Peckis), Golder (Kevin McCullen and Veronica Foster), and ROC (Rainer Domalski and Gary Davis) during several separate phone conversations it was decided to bring some sediment filter bags to the Site to filter out the sediments before the water is pumped to the system. The sediment/water will gravity feed through the filter bags and the water will be contained in the dewatering pad, the treatment system sump, the influent tank, and the dirty backwash tank prior to treatment (this should be sufficient space since the water will be gravity feeding and the flow rates should be such that the system can handle it). The sediment filter bags will subsequently be disposed with any other sediments removed from TSC and FWDD. Panther will have the bags out here by approximately 9-10 a.m. tomorrow.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen get M

COA Daily Summary Report SHEET 1 OF 2

DATE: May 29, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: upper 40s a.m.; 70s p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen and Charlie Lawrence

GAI Arrival/Departure: 0655 / 1750

PANTHER PERSONNEL ON SITE: John Coffey, Steve Inzerma, and Willy Brydges. Mike Brooks and Mike Lehman from Panther subcontractor, Environmental Recovery Corp. (Vac Truck), also on-site.

PANTHER Arrival/Departure: ERC 0705 / 1700, Panther 0700 / 1750; John Coffey (Panther) 0830 / 1400

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

The sediment/water in the vac truck collected yesterday (May 28) was pumped off to the treatment system through sediment filter bags brought out to the site by John Coffey. Panther set up a 2-inch trash pump to bypass the spring's base flow around the work area (pumped from spring outfall, around work area, and discharged water downstream of work area). Continued sediment removal activities in the TSC. Removed approximately 3,000-gal. of sediment/water from the upper portion of Thornton Spring (see 5/29/08 field map). Sediment/water was pumped off into a former concrete lined secondary containment area so the sediment can settle and the water can be decanted off to the groundwater treatment system. Approximately ½ to ¾ of a cubic yard of sediment was removed from the Vac truck and placed on the dewatering pad.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in TSC and Spring Creek. No suspended sediment noted in TSC downstream of the coir log filters or in Spring Creek from the sediment removal activities during removal activities. Jim Harbert (Army Corps of Engineers) was on-site to observe sediment removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to TSC and Spring Creek (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

The treatment system capacity is currently at maximum storage capacity and sediments currently being removed from TSC are in suspension (the sediments are very fine-grained and water is needed to keep them from bridging in the vacuum hose). This is causing an issue with how to deal with the sediment/water being removed from TSC because 1) there is not enough space in the treatment system to store the amount of sediment/water being removed and 2) the sediment content is such that it will continually foul the treatment systems bag filters thus shutting down the treatment system. Sediment filter bags were brought to the site to filter the sediment/water on the dewatering pad before sending it to the treatment system. The bags that were brought were larger micron bags (~ 50-75 micron) and the water coming out was still muddy. A test was made with a 10 micron filter bag from the treatment system and it was effective in filtering the sediment/water, thus if any more sediment filter bags are used they will have to be a micron size closer to 10 micron then the current 50-75 micron bags. During the setup of the filter bags, Gary

CQA Daily Summary Report SHEET 2 OF 2

Davis (ROC) suggested using a water tight former secondary containment area near the treatment system to store the sediment/water until the sediment can settle and the water decanted (the containment area is 25'x25'x3'). A conference call was held between Kevin McCullen (Golder), Rainer Domalski (ROC), and Frank Klanchar (USEPA) to discuss the use of the containment area and Frank agreed to let us use it to decant the water.

In an attempt to come up with a way to speed up the progress of the project, discussions were also held between Panther, Frank Klanchar, and Rainer about using a mini-excavator to loosen the sediment in the upper portion of TSC instead of loosening it by hand. Frank thought that this idea was feasible but he wanted to check with BTAG and PFBC to make sure that they were OK with using an excavator since it was their comment to the RADR that asked that vacuum dredging be used in TSC instead of traditional excavation methods (i.e. a mini-excavator). Frank will get back to Golder/ROC when he receives an answer from BTAG and PFBC.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES): Daily health and safety meeting – GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen XII.

CQA Daily Summary Report SHEET 1 OF 1

DATE: May 30, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: N/A

Cloud cover: N/A

Precipitation: N/A

Wind: N/A

GAI PERSONNEL ON SITE: None

GAI Arrival/Departure:

PANTHER PERSONNEL ON SITE: None.

PANTHER Arrival/Departure:

EQUIPMENT: Equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat

SUMMARY OF REMEDIATION ACTIVITY:

No Sediment Activities were conducted

GAI ACTIVITIES:

N/A

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

N/A

SUMMARY OF PROBLEMS AND RESOLUTIONS:

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

N/A

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin F. McCullen R. M.

May 30, 2008

CQA Daily Summary Report SHEET 1 OF 2

DATE: June 2, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER: Temperature: upper 60s a.m.; 80 p.m.

Cloud cover: Sunny Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0850 / 1720

PANTHER PERSONNEL ON SITE: Steve Inzerma, and Willy Brydges. Mike Brooks from Panther

subcontractor, Environmental Recovery Corp. (Vac Truck), also on-site.

PANTHER Arrival/Departure: ERC 0920 / 1720, Panther 0940 / 1720

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

The groundwater treatment system was shut off to allow work to begin in the FWDD. Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to begin in the FWDD. Installed coir log erosion and sediment control filter in FWDD approximately 100 yards downstream of the work area. Began sediment removal activities in the FWDD. Removed approximately 3,000-gal. of sediment/water from the upper portion of FWDD (see 6/02/08 field map). Sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities. Jim Harbert (Army Corps of Engineers) on-site to observe sediment removal activities. Heather Smiles (PFBC) and Steve Clawson (US Fish & Wildlife) on-site to discuss the possible use of a mini-excavator or backhoe in the upper portion of TSC.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Discussed using a mini-excavator to loosen the sediment in the upper portion of TSC instead of loosening it by hand with Heather Smiles (PFBC) and Steve Clawson (US Fish & Wildlife). We got permission from the Agencies to use a mini-excavator or small backhoe in Thornton Spring provided we don't just dig and haul. We can use it in the upper third of the channel where the channel is ~8-10 ft wide and where the majority of the sediment is located. They would like us to keep the natural rocky substrate of the Spring (using the existing rocks in the stream, not rip rap) and minimize the impact to the stream bank. Thus, they would like us to use the excavator to loosen and pile up the sediments, pick out the larger rocks, use the Vac truck to suck up the fine grained sediments, and toss the rocks back in the channel. Rainer Domalski (ROC), Steve Inzerma (Panther), and Frank Klanchar (USEPA) were briefed on the outcome of Kevin McCullen's discussions with Heather Smiles (PFBC) and Steve Clawson (US Fish & Wildlife).

CQA Daily Summary Report SHEET 2 OF 2

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES): Daily health and safety meeting – GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen & T. A.

CQA Daily Summary Report SHEET 1 OF 2

DATE: June 3, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 60 a.m.; lower 80s p.m.

Cloud cover: Sunny a.m., partly cloudy p.m.

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0655 / 1840

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, and Matt Brooks. Mike Brooks from

Panther subcontractor, Environmental Recovery Corp. (Vac Truck), also on-site.

PANTHER Arrival/Departure: ERC 0655 / 1840, Panther 0655 / 1840

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. Removed approximately 1,500-gal. of suspended sediment/water and approximately 8-10 cubic yards of solid sediments from approximately 100 linear feet of the upper portion of FWDD (see 6/03/08 field map). Suspended sediment/water pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities. Jim Harbert (Army Corps of Engineers) on-site to observe sediment removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

No issues with the sediment removal action, but it should be noted that other construction activities were conducted at an off-site facility (near the Sheetz gas station and convenience store at the corner of Pike Street and Rte. 26) that affected the sediment loading to Spring Creek. Hazmat-Eagle Towing & Recovery, Inc. of Milesburg, PA (contractor) and Mountain Research, LLC of Altoona, PA (consultant) conducted bank restoration activities along the Pike Street side of Spring Creek near the Sheetz. This activity is part of an ongoing project due to a release from the USTs at the Sheetz that occurred approximately 2 years ago. The bank restoration resulted in sediment loading to Spring Creek. This sediment loading was observed and documented by Kevin McCullen (Golder) and Jim Harbert (Army Corps of Engineers).

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

CQA Daily Summary Report SHEET 2 OF 2

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: $\ensuremath{\text{N/A}}$

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen A.J. h

COA Daily Summary Report SHEET 1 OF 2

DATE: June 4, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 60s a.m. and 60s p.m.

Cloud cover: Overcast Precipitation: Off and on drizzly rain

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0650 / 1630

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, and Matt Brooks. Mike Brooks from

Panther subcontractor, Environmental Recovery Corp. (Vac Truck), also on-site.

PANTHER Arrival/Departure: ERC 0703 / 1510, Panther 0655 / 1540

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. Due to slightly higher flow in the FWDD because of overnight rain, a pump around system was set up and two coir log sediment filters were installed (see 6/04/08 field map). Removed approximately 2,000-gal. of suspended sediment/water and approximately 2-3 cubic yards of solid sediments from approximately 40 linear feet of the upper portion of FWDD (see 6/04/08 field map). Sediment offloaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area will be decanted to the groundwater system over the weekend when the system can be re-started (the groundwater system is currently shut down to reduce the flow in the FWDD which normally receives the discharge from the treatment system).

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities. Jim Harbert (Army Corps of Engineers) on-site to observe sediment removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

CQA Daily Summary Report SHEET 2 OF 2

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen K. L.

Veronica Foster V4X

AR100375

CQA Daily Summary Report SHEET 1 OF 2

DATE: June 5, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: mid 60s a.m. and upper 80s p.m.

Cloud cover: Partly Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0655 / 1750

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, and Matt Brooks. Gary Jones from Panther

subcontractor, Environmental Products and Services of Vermont, Inc (Vac Truck), also on-site.

PANTHER Arrival/Departure: EPS 0730 / 1715, Panther 0655 / 1750

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. Due to slightly higher flow in the FWDD because of overnight rain, a pump around system was set up and two coir log sediment filters were installed (see 6/05/08 field map). Removed approximately 3,000-gal. of suspended sediment/water and approximately 3-4 cubic yards of solid sediments from approximately 120 linear feet of the upper portion of FWDD (see 6/05/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area will be decanted to the groundwater system over the weekend when the system can be re-started (the groundwater system is currently shut down to reduce the flow in the FWDD which normally receives the discharge from the treatment system).

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities. Cheryl Sinclair (PADEP) on-site to observe sediment removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

CQA Daily Summary Report SHEET 2 OF 2

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen K. h.

CQA Daily Summary Report SHEET 1 OF 2

DATE: June 6, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 70s a.m. and upper 80s p.m.

Cloud cover: Partly Cloudy, Hot, Humid Precipitation: None

ne Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0650 / 1430

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, and Matt Brooks. Gary Jones from Panther

subcontractor, Environmental Products and Services of Vermont, Inc. (Vac Truck) also on-site.

PANTHER Arrival/Departure: EPS 0800 / 1230, Panther 0700 / 1410

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up and a coir log sediment filter was installed (see 6/06/08 field map). Removed approximately 1,500-gal. of suspended sediment/water and approximately 2 cubic yards of solid sediments from approximately 70 linear feet of the upper portion of FWDD (see 6/06/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area will be decanted to the groundwater system over the weekend when the system can be re-started (the groundwater system is currently shut down to reduce the flow in the FWDD which normally receives the discharge from the treatment system). Water in the dewatering pad was decanted to the groundwater system dirty backwash tank.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities. Jim Harbert and Joe Hollswander (Army Corps of Engineers) on-site to observe sediment removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

CQA Daily Summary Report SHEET 2 OF 2

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen & F. M.

CQA Daily Summary Report SHEET 1 OF 2

DATE: June 9, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 80s a.m. and 90s p.m.

Cloud cover: Sunny, Hot, Humid

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0850 / 1600

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor,

Environmental Products and Services of Vermont, Inc (Vac Truck), also on-site.

PANTHER Arrival/Departure: EPS 1015 / 1530, Panther 0925 / 1545

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up and a coir log sediment filter was installed (see 6/09/08 field map). Removed approximately 1,000-gal. of suspended sediment/water and approximately 1-2 cubic yards of solid sediments from approximately 30 linear feet of the upper portion of FWDD (see 6/09/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area was decanted to the groundwater system over the weekend and the groundwater treatment system was re-started Friday afternoon 6/06/08.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities. Pictures were also taken of turbid water which was discharged to the FWDD from an upstream source (see below).

SUMMARY OF PROBLEMS AND RESOLUTIONS:

A large amount of turbid water was discharged to the FWDD at approximately 1420 from an upstream source (either the concrete plant next to the ROC site or by College Twp. Water Department personnel who have been flushing fire hydrants in the area). The source of the water was not able to be determined, but photos were taken to document that the source of the turbid water was coming from and upstream source and not the sediment removal activities. Due to the high volume of water which the pump around system could not mitigate, removal activities were suspended for the remainder of the day.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

CQA Daily Summary Report SHEET 2 OF 2

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen A.h.

CQA Daily Summary Report SHEET 1 OF 2

DATE: June 10, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 70s a.m. and upper 80s p.m.

Cloud cover: Partly Sunny, Brief scattered showers after 1630 Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0650 / 1850

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor, Environmental Products and Services of Vermont, Inc (Vac Truck), also on-site.

PANTHER Arrival/Departure: EPS 0750 / 1845, Panther 0655 / 1850

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, Bobcat Mini-

excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up and a coir log sediment filter was installed (see 6/10/08 field map). Removed approximately 500-gal. of suspended sediment/water and approximately 2-3 cubic yards of solid sediments from approximately 70 linear feet of the upper portion of FWDD (see 6/10/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area will be decanted to the groundwater system. A pump around system was also set up at TSC in order dewater the spring during removal activities with the Bobcat Mini-excavator. Panther dug out portions of the upper TSC with the mini-excavator (see 6/10/08 field map) and attempted to remove the sediment stockpiles with the Vac truck but were unable to vacuum up the sediments (see below). Joe Hollshwander (Army Corps) on-site to observe sediment removal activities as the USEPA representative. Joe was also on-site when attempts were made to vacuum up the stockpiles in TSC and was involved in the discussions on what course of action to take in the upper portion of TSC (see below).

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD and TSC (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

An attempt was made to vacuum remove sediment stockpiles made at TSC by the mini-excavator but they were unsuccessful. Discussions were held during various separate phone conversations with Panther, USEPA, Golder, ROC, and the Army Corps of Engineers about how to remove these sediments from the upper portion of the TSC. It

CQA Daily Summary Report SHEET 2 OF 2

was agreed that these sediments will have to be excavated and loaded into a small dump truck/roll-off container and transported to the ROC site. Exact channel restoration has yet to be determined but the USEPA was receptive to using some rip rap in the upper portion of the TSC, provided that biodegradable materials (coir logs, mats, etc.) be used as much as possible. Channel restoration will be determined after further discussion with the USEPA.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: $\ensuremath{\mathrm{N/A}}$

SUBMITTED BY GAI

6

REVIEWED BY GAI

Kevin McCullen

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 11, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Lower 60s a.m. and 80s p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen and Kevin Barbour

GAI Arrival/Departure: Kevin McCullen 0650 / 1755; Kevin Barbour 0900 / 1915

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor

Environmental Products and Services of Vermont, Inc (Vac Truck) also on-site

PANTHER Arrival/Departure: EPS 0810 / 1745, Panther 0655 / 1915

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat

Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up and a coir log sediment filter was installed (see 6/11/08 field map). Removed approximately 500-gal. of suspended sediment/water and approximately 7 cubic yards of solid sediments from approximately 55 linear feet of the upper portion of FWDD (see 6/11/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area will be decanted to the groundwater system. Cheryl Sinclair (PADEP) on-site to observe sediment removal activities. Brent Peckis and John Coffey (Panther) on-site to review site progress and to assess the TSC area.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Discussed channel restoration with Frank Klanchar (USEPA); he agrees that limited use or riprap in TSC would be appropriate in any areas where a muddy channel bottom will exist after removal activities. Frank sent an e-mail to BTAG, PFBC, and US Fish & Wildlife regarding the use of rip rap. He will get back to Golder/ROC with a final decision after receiving comments from BTAG, PFBC, and US Fish & Wildlife.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin Barbour ZAB

Kevin McCullen Karh

CQA Daily Summary Report SHEET 1 OF 2

DATE: June 12, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Lower 60s a.m. and 80s p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin Barbour GAI Arrival/Departure: Kevin Barbour 0650 / 1800

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor

Environmental Products and Services of Vermont, Inc (Vac Truck) also on-site

PANTHER Arrival/Departure: EPS 0715 / 1800, Panther 0650 / 1800

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat

Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up and a coir log sediment filter was installed (see 6/12/08 field map). Approximately 1,000-gallons of suspended sediment/water and approximately 7 cubic yards of solid sediments were removed from approximately 80 linear feet of the upper portion of FWDD (see 6/12/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area will be decanted to the groundwater system. Joe Hollshwander (Army Corps. of Engineers) was on site from 1000 until 1110. He inquired about Panther's progress. Also, an excess flow of water coming from upstream of the work area was noticed by Panther at 0900 and overflowed their pump around and damn. The excess flow was cloudy with suspended sediments and may have come from fire hydrant flushing activities up stream.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter due the sediment removal activities. Visible suspended sediment was noted in the FWDD from an upstream source unrelated to this sediment removal action.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities and the sediment loading to FWDD (upstream and downstream) due to removal activities. Also, a photo was taken showing the suspended sediments from the excessive water flow.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

CQA Daily Summary Report SHEET 2 OF 2

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin Barbour K.A.B

Kevin McCullen Ka-M_

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 13, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Lower 60s a.m. and 80s p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin Barbour GAI Arrival/Departure: Kevin Barbour 0655 / 1310

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor

Environmental Products and Services of Vermont, Inc (Vac Truck) also on-site

PANTHER Arrival/Departure: EPS 0730 / 1250, Panther 0655 / 1300

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat

Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up and a coir log sediment filter was installed (see 6/13/08 field map). Approximately 1,000-gallons of suspended sediment/water and approximately 2 cubic yards of solid sediments were removed from approximately 85 linear feet of the upper portion of FWDD (see 6/13/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. The Vac truck removed excessive liquids and silt from the dewatering pad. Then, suspended sediment/water (from the Vac truck) was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Solid sediments were off-loaded onto the dewatering pad. Water in the containment area will be decanted to the groundwater system. There were no visitors on site today.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

Surveyors on site from ~ 0730 and remained after GAI, Panther and EPS left the site. The surveyors were taking post sediment removal measurements of the FWDD.

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities in the FWDD.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin Barbour ZAB

Kevin McCullen Kon. 12_

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 16, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: 70s a.m. and 80s p.m.

Cloud cover: Sunny a.m.; Partly Cloudy Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: Kevin McCullen 0900 / 1625

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, Todd Vail, and Matt Brooks.

PANTHER Arrival/Departure: Inzerma, Brydges, & Brooks 0940 / 1620, Vail 1300 / 1620

EQUIPMENT: F-250, F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and 331E

Bobcat Mini-excavator

SUMMARY OF REMEDIATION ACTIVITY:

Continued sediment removal activities in TSC. A pump around system was set up and two coir log sediment filter was installed (see 6/16/08 field map). Removed approximately 20-25 cubic yards of sediments from approximately 60 linear feet of the upper portion of TSC using traditional excavation methods (see 6/16/08 field map). Sediments were off-loaded to the dewatering pad and covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in TSC. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to TSC (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

Discussed channel restoration with Frank Klanchar (USEPA) and Kathy (USEPA - BTAG); they agreed that limited use of riprap in TSC would be appropriate in any areas where a muddy channel bottom will exist after removal activities. They asked that any rip rap used be washed stone or gravel and not crushed rock directly from a quarry (BTAG has concerns about fine grained material typically associated with rock directly from a quarry). They also asked that biodegradable materials still be used as much as possible.

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen

Veronica Foster $u 4 \gamma$

COA Daily Summary Report SHEET 1 OF 1

DATE: June 17, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Upper 50s a.m. and 70s p.m.

Cloud cover: Partly Sunny

Precipitation: Brief Showers in the afternoon

Wind:

light and variable

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0645 / 1750

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, Todd Vail, and Matt Brooks. Gary Jones from Panther subcontractor, Environmental Products and Services of Vermont, Inc (Vac Truck), also on-site.

PANTHER Arrival/Departure: EPS 0835 / 1730, Inzerma, Brydges, & Vail 0700 / 1745, Brooks 0700 / 1200

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up and removed traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up was installed and removed in today's working area of the FWDD (see 6/17/08 field map). Removed approximately 5-6 cubic yards of solid sediments and approximately 100-gal. of suspended sediments from approximately 214 linear feet of the of FWDD (see 6/17/08 field map). Solid and suspended sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Sediment removal activities were not conducted at the TSC.

GALACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, the coir log filters, and the sediment loading to FWDD (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES: N/A

SUBMITTED BY GAI

Kevin McCullen XTA

REVIEWED BY GAI

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 18, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Lower 60s a.m. and 80s p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin McCullen, Kevin Barbour

GAI Arrival/Departure: Kevin McCullen 0650 / 1230; Kevin Barbour 0940 / 1530

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor

Environmental Products and Services of Vermont, Inc (Vac Truck) was not on site today.

PANTHER Arrival/Departure: EPS not on site, Panther 0655 / 1530

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat

Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up the pump around system at the TSC. They continued sediment removal activities using the miniexcavator and loaded it into a roll-off container (see 6/18/08 field map). Approximately 15 to 18 cubic yards of solid sediments were off-loaded to the dewatering pad. Panther added 15-feet of plastic sheeting to extend the dewatering pad upslope. The pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Panther loaded the used ADS pipes into a pickup truck for disposal off site. Joe Hollshwander (Army Corps of Engineers) was on site today.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in TSC. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities. Collected 3 confirmation sediment samples, a field duplicate, and a MS/MSD from upper portion of the TSC where sediment was left in place after removing the upper 2 feet of sediment (see 6/18/08 field map and field book for sample locations).

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities in TSC.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin Barbour KAB.

Kevin McCullen & T. M.

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 19, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Lower 60s a.m. and 80s p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin Barbour GAI Arrival/Departure: Kevin Barbour 0700 / 1930

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor

Environmental Products and Services of Vermont, Inc (Vac Truck) also on-site

PANTHER Arrival/Departure: EPS 0820 / 1910, Panther 0655 / 1930

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat

Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued sediment removal activities in the FWDD. A pump around system was set up and a coir log sediment filter was installed (see 6/19/08 field map). Approximately 400-gallons of suspended sediment/water and approximately 10 cubic yards of solid sediments were removed from approximately 310 linear feet of the upper portion of FWDD (see 6/19/08 field map). Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Solid and suspended sediments were off-loaded onto the dewatering pad. Water in the dewatering pad was pumped into the ground water treatment system. Joe Hollshwander (Army Corps of Engineers) was on site today from 1400 until 1600. Joe said that the work performed was satisfactory and the FWDD looks good.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities in FWDD.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin Barbour A.B.

Kevin McCullen XF. A.

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 20, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER.

Temperature: Lower 60s a.m. and 80s p.m.

Cloud cover: Sunny

Precipitation: None

Wind: None

GAI PERSONNEL ON SITE: Kevin Barbour GAI Arrival/Departure: Kevin Barbour 0700 / 1430

PANTHER PERSONNEL ON SITE: Steve Inzerma and Matt Brooks. Gary Jones from Panther subcontractor

Environmental Products and Services of Vermont, Inc (Vac Truck) also on-site

PANTHER Arrival/Departure: EPS 0745 / 1310, Panther 0655 / 1430

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat

Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up the pump around system at the TSC. Continued sediment removal activities and finished at culvert east of Pike Street (see 6/20/08 field map). Approximately 400-gallons of suspended sediment/water and approximately 1 cubic yard of solid sediments were removed from approximately 140 linear feet of TSC. Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Solid and suspended sediments were off-loaded onto the dewatering pad. Water in the dewatering pad was pumped into the ground water treatment system. There were no visitors on site today.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in TSC. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities in TSC.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin Barbour JL. A.B.

Kevin McCullen Koh M

CQA Daily Summary Report SHEET 1 OF 1

23 MTV. DATE: June 17, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Upper 70s a.m. and 80s p.m.

Cloud cover: Partly Sunny

Precipitation: Thunderstorms late p.m. Wind: very light

GAI PERSONNEL ON SITE: Charles J. Lawrence, Jr.

GAI Arrival/Departure: 0900 / 1750

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, and Matt Brooks. Gary Jones from Panther

subcontractor Environmental Products and Services of Vermont, Inc (Vac Truck) also on-site

PANTHER Arrival/Departure: EPS Before 0900 / 1750, Inzerma, Brydges, & Brooks 0930 / 1750

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up and removed traffic control devices, per PennDOT Regulations, along Route 26 to allow work to continue in the FWDD. Continued and completed sediment removal activities in the FWDD. A pump around system was set up and removed in today's working area of the FWDD (see 6/23/08 field map). Panther then moved to the opposite side of Houserville road to remove sediment from the FWDD outlet to Spring Creek. Removed approximately 5-6 cubic yards of solid sediments and approximately 2,500-gal. of suspended sediments from approximately 100 linear feet of the FWDD along Route 26, and approximately 60 linear feet from the FWDD outlet to Spring Creek (see 6/23/08 field map). Solid and suspended sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. Suspended sediment/water was pumped off into a former secondary containment so the sediment can settle and the water can be decanted off to the groundwater treatment system. Water in the containment area will be decanted to the groundwater system.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in FWDD and FWDD Outlet to Spring Creek. No visible suspended sediment noted downstream of the coir log filter from the sediment removal activities during removal activities.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities, in the FWDD and the FWDD Outlet to Spring Creek (upstream and downstream) due to removal activities.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Charles J. Lawrence, Jr.

Kevin McCullen KIA

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 24, 2008 S M T W T F S

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Mid 70s a.m. and 80s p.m.

Cloud cover: Partly Sunny

Precipitation: None

Wind: light and variable

GAI PERSONNEL ON SITE: Charlie Lawrence; Kevin McCullen GAI Arrival/Departure: Lawrence 0700 / 1100; McCullen 0900 / 1720

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, and Matt Brooks. Gary Jones from Panther

subcontractor Environmental Products and Services of Vermont, Inc (Vac Truck) also on-site

PANTHER Arrival/Departure: EPS 0800 / 1710; Panther 0700 / 1715

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, 331E Bobcat

Mini-excavator, and Vac Truck

SUMMARY OF REMEDIATION ACTIVITY:

Panther set up and removed traffic control devices along Pike Street to allow work to continue in TSC. Continued sediment removal activities between the outfall under Pike Street to Spring Creek at TSC. Removed approximately 3-4 cubic yards of solid sediments and approximately 5,600-gal. of suspended sediments from approximately 20 linear feet of TSC (see 6/17/08 field map). Suspended sediment/water was pumped off into a former secondary containment area. Water in the containment area will be decanted to the groundwater system. Solid sediments were off-loaded onto the dewatering pad. Sediment off-loaded to the dewatering pad was covered with plastic to divert water off the dewatering pad and away from the dewatering pad sump. With the removal of the suspended and solids sediments from this section of TSC, removal activities are complete at TSC.

GAI ACTIVITIES:

Oversaw sediment removal activities and monitored sediment load in TSC.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of sediment removal activities in TSC.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting - GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

SUBMITTED BY GAI

REVIEWED BY GAI

Kevin McCullen

XIn_

Veronica Foster

CQA Daily Summary Report SHEET 1 OF 1

DATE: June 25, 2008 SMTWTFS

PROJECT NUMBER: 963-6333

PROJECT TITLE: OU-2 Sediment Removal Action

LOCATION: State College, Pennsylvania

CONTRACTOR: Panther Technologies, Inc.

WEATHER:

Temperature: Upper 50s a.m. and 80s p.m.

Cloud cover: Partly Sunny

Precipitation: None

Wind: light and variable

GAI PERSONNEL ON SITE: Kevin McCullen

GAI Arrival/Departure: 0655 / 1520

PANTHER PERSONNEL ON SITE: Steve Inzerma, Willy Brydges, and Matt Brooks.

PANTHER Arrival/Departure: 0655 / 1515

EQUIPMENT: F-250 with equipment box trailer, F-550 with flat-bed trailer, T320 Turbo Bobcat, and 331E

Bobcat Mini-excavator

SUMMARY OF REMEDIATION ACTIVITY:

Panther placed R3 stone in the upper portion of TSC to restore the stream channel after sediment removal activities. Prior to placing stone, coir matting was installed in the channel to assist in stabilizing the channel. After placing the stone, coir logs were staked into the side-slopes of the stream channel to assist in stabilizing the banks (see 6/25/08 field map). A load of pea gravel was also delivered to the TSC area to restore the driveway at 203 Pike Street which was used as the access way to TSC. Panther pumped off the water from the dewatering pad to the on-site groundwater treatment system. They also repaired and improved the plastic cover over the sediment pile on the dewatering pad to divert water off the dewatering pad and away from the dewatering pad sump. Panther demobilized from the site. Joe Hollshwander (Army Corps) was on-site to observe restoration activities as the USEPA representative. Joe was satisfied with the restoration of TSC.

GAI ACTIVITIES:

Oversaw channel restoration activities and collected composite samples from the sediment pile for waste profiling purposed (see 6/25/08 field book and field map for sample composite locations). Samples WP01-062508 and WP02-062508 were collected for the following parameters: VOCs, TCLP (VOCs, SVOCs, Metals, and Pesticides/Herbicides), Ignitability, Total Cyanide, Total Sulfide, pH, Paint Filter, TOX, Mirex, and Kepone.

SUMMARY OF SURVEYOR'S ACTIVITIES:

N/A

SUMMARY OF PHOTOGRAPHS TAKEN:

Took pictures of restoration activities in TSC.

SUMMARY OF PROBLEMS AND RESOLUTIONS:

N/A

SUMMARY OF MEETINGS/ DISCUSSIONS HELD (ATTENDEES AND ISSUES):

Daily health and safety meeting – GAI and Panther personnel

SUMMARY OF INCIDENTS / ACCIDENTS / HEALTH AND SAFETY ISSUES:

N/A

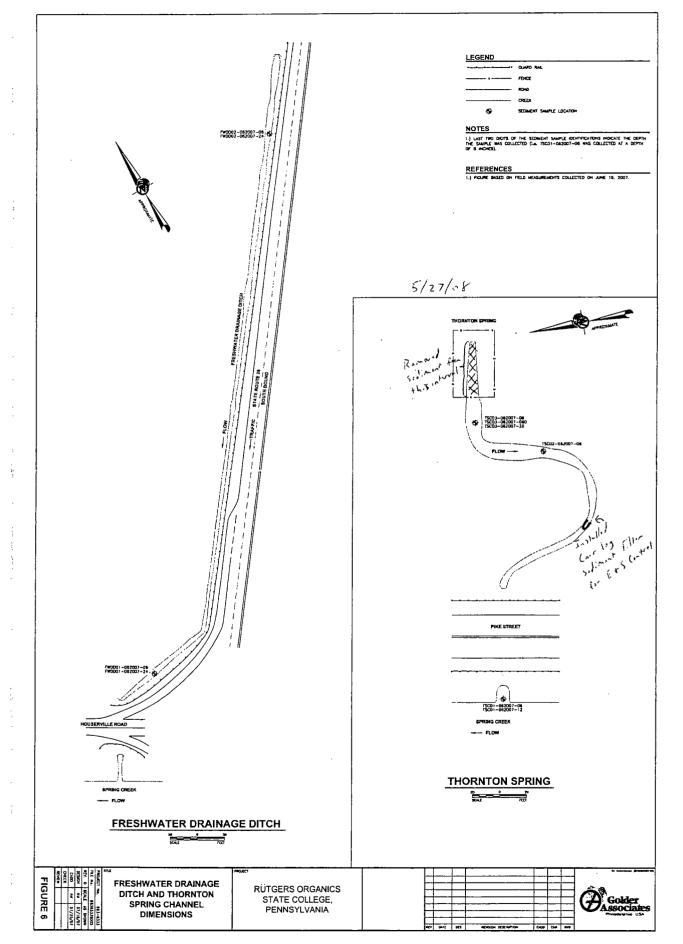
SUBMITTED BY GAI

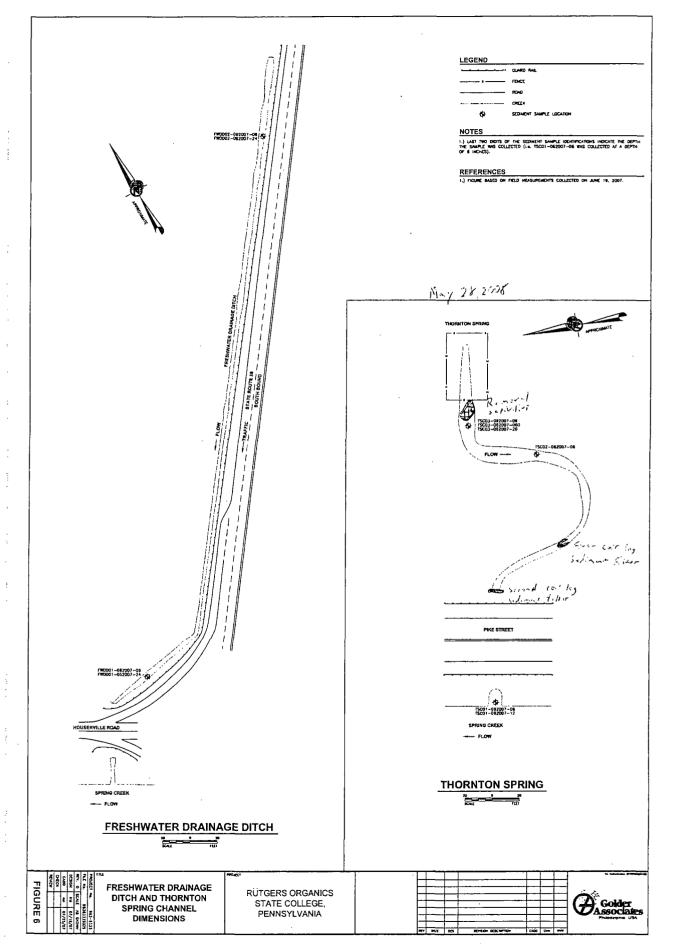
REVIEWED BY GAI

Kevin McCullen XoIn

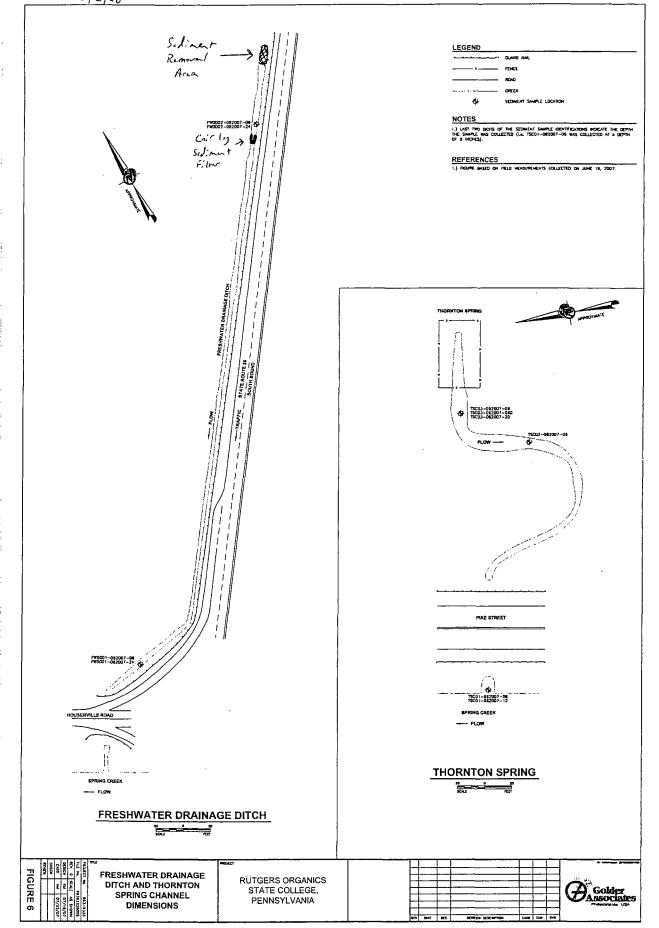
Veronica Foster

APPENDIX B DAILY FIELD MAPS





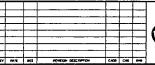
7=00083 - 88 10937 - 38	LEGEND
FRESHWATER OR ORAGE GTCH TANKE STATE ROUTER TOUTH ROUTE	THORNTON BITENO THORNTON BITENO Remark Area FLOW TECH-002007-08 TECH-002007-08 TECH-002007-08
PREDO: 1-083007-04 PREDO: 1-083007-34 (g)	PIKE STREET PIKE STREET PIKE STREET Spring CREEK FLOW
FRESHWATER DRAINAGE DITCH FRESHWATER DRAINAGE DITCH FRESHWATER DRAINAGE FRESHWATER DRAINAGE FRESHWATER DRAINAGE DITCH AND THORNTON SPRING CHANNEL DIMENSIONS FRESHWATER DRAINAGE PENNSYLVANIA	THORNTON SPRING



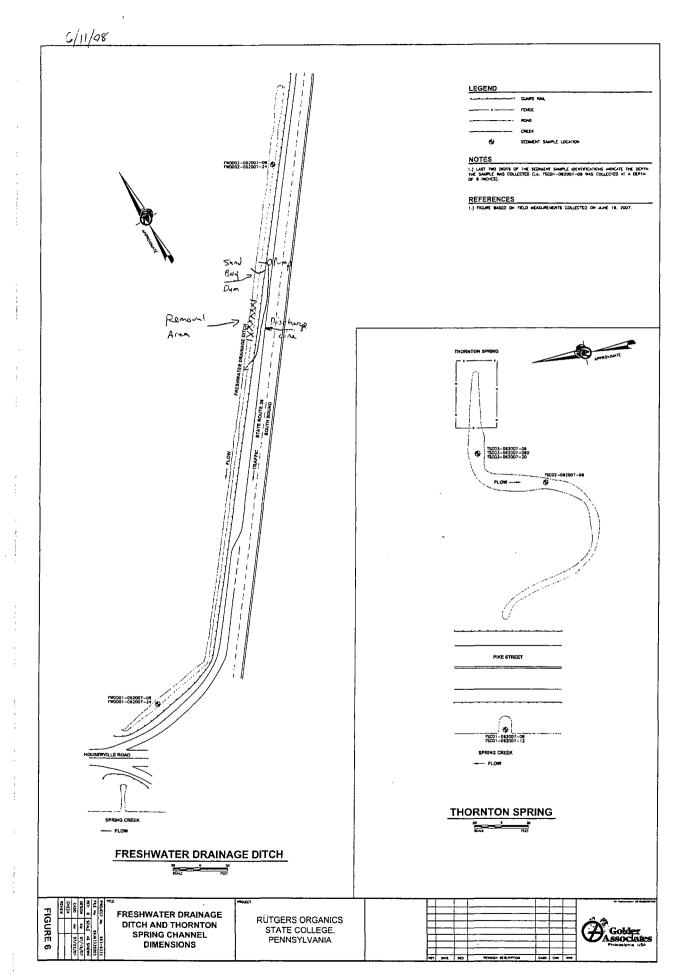
6/6/08 LEGEND NOTES FW0002-067007-08 PF REFERENCES
1.) FIGURE BASED ON FIELD MEASUREMENTS COLLECTED ON JUNE 19, 1007. Coir log Sidinar Filter TSC03-062007-06 15C03-062007-060 15C03-062007-20 15C01-062007-08 15C01-062007-12 SPRING CREEK ---- FLOW THORNTON SPRING SPRING CREEK FRESHWATER DRAINAGE DITCH FRESHWATER DRAINAGE DITCH AND THORNTON SPRING CHANNEL DIMENSIONS FIGURE 6 RÜTGERS ORGANICS STATE COLLEGE, PENNSYLVANIA

FIG	ADVIN	DHECK	8	OCSIDA	NV.	17. H	Litzrosa	mi	FRESHWATER DRAINAGE
GUR			£,	×	ě		Ŧ		DITCH AND THORNTON
€ 6			/27/10	07/18/	AS SHOT	13633350	99-2		SPRING CHANNEL DIMENSIONS

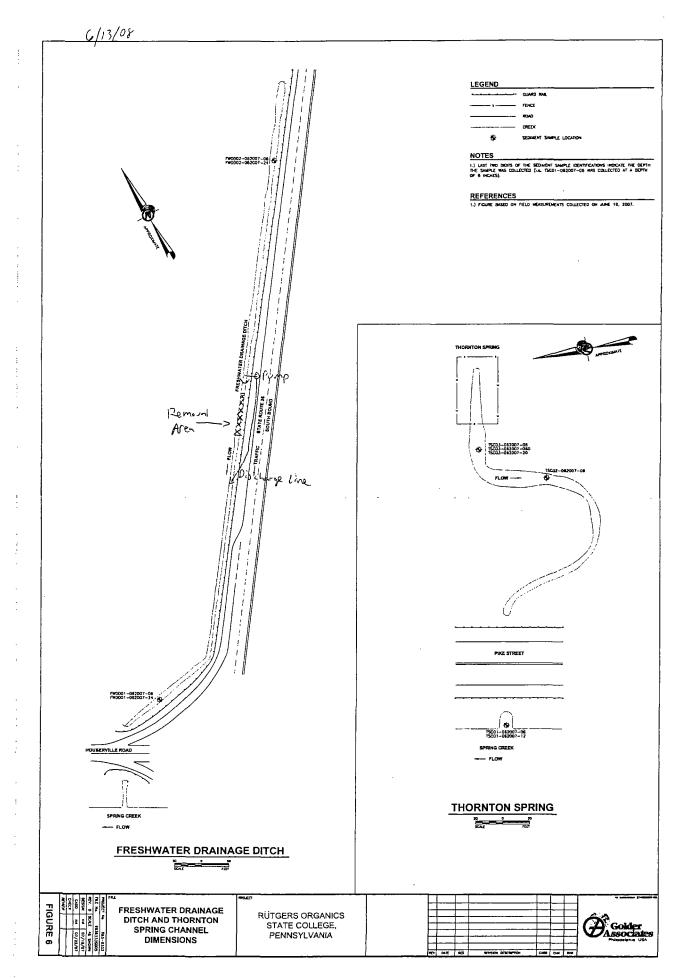
RÜTGERS ORGANICS STATE COLLEGE, PENNSYLVANIA







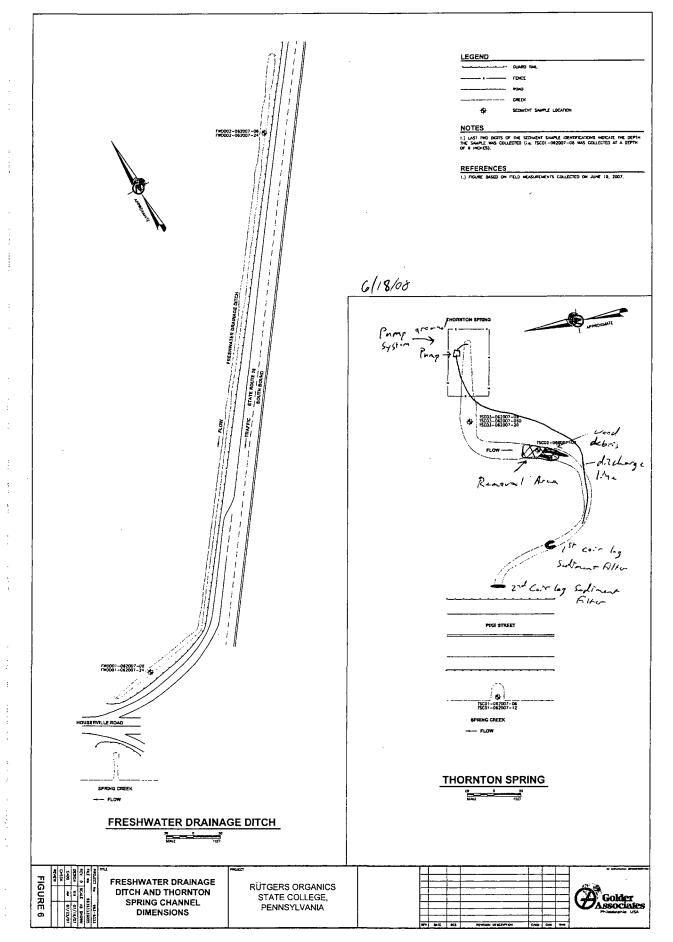
6/12/08 LEGEND NOTES FW0002-052007-05 REFERENCES
1.) FIGURE BASED ON FREID MEASUREMENTS COLLECTED ON JUNE 19, 2007. Removal eihe Area TSC03-082007-06 TSC03-082007-060 TSC03-082007-20 PIKE STREET - FLOW THORNTON SPRING SPRING CREEK - FLOW FRESHWATER DRAINAGE DITCH FRESHWATER DRAINAGE DITCH AND THORNTON SPRING CHANNEL DIMENSIONS FIGURE 6 RÜTGERS ORGANICS STATE COLLEGE. PENNSYLVANIA



FRESHWATER DRAINAGE DITCH	LEGEND DAMP MAL TIDES STANDARD SHAPE OF THE STANDARD ADMITS AND SECURE THE STORM OF A MODEL IN MOTES IN MODEL THORNE SHAPE OF THE STANDARD ADMITS AND SHAPE OF A STORM OF A MODEL THORNE SHAPE OF THE STANDARD COLLECTED OF LAME IS, 2007. REFERENCES 1) PROSE SHAPE OF THE STANDARD COLLECTED OF LAME IS, 2007. THORN TO A THE STANDARD COLLECTED OF LAME IS, 2007. PRINT STREET PRINT STREET THORN TO SPRING T
TO SPRING CHANNEL PENNSYLVANIA	Golder Associates

6/17/08 LEGEND NOTES

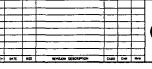
1.) LAST TWO ITHE SAMPLE WOOD INCHES). FWDD02-052007-05|#| FWDD02-062007-24|# TSC03-062007-06 TSC03-062007-060 TSC03-062007-20 Removal Aren. PIKE STREET F#0001-062007-08 --- FLOW THORNTON SPRING SPRING CREEK - FLOW FRESHWATER DRAINAGE DITCH FRESHWATER DRAINAGE DITCH AND THORNTON SPRING CHANNEL FIGURE 6 RÜTGERS ORGANICS STATE COLLEGE, PENNSYLVANIA DIMENSIONS



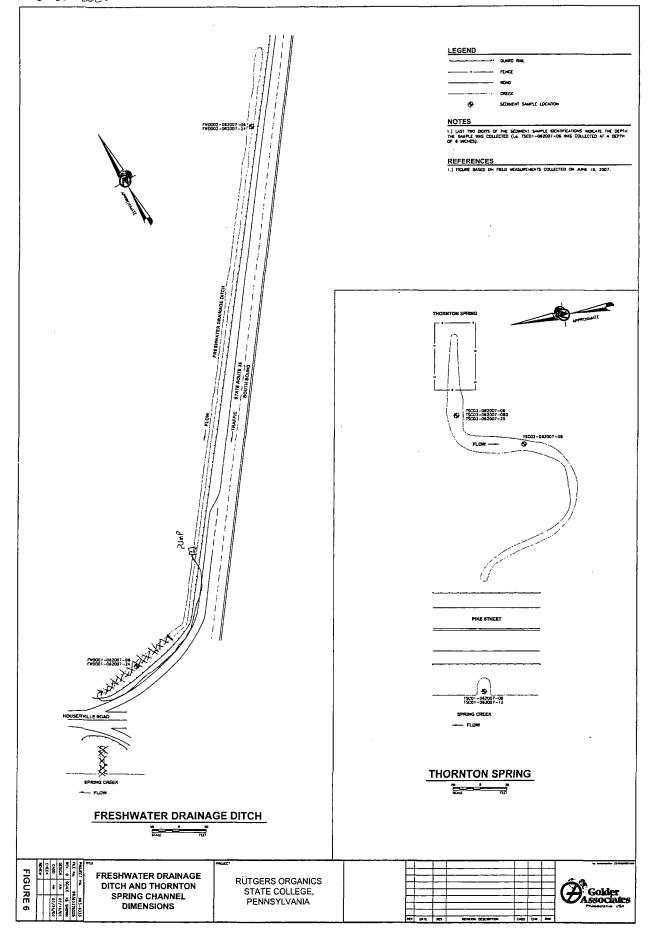
Ξ	200	CH(Cx	8	DE 90M		į	PROJECT		F
GUR			ŧ	ž	E.	Ļ	ž		
E 6			07/25/07	07/16/07	AS SHOWN	500801011	183-6333		

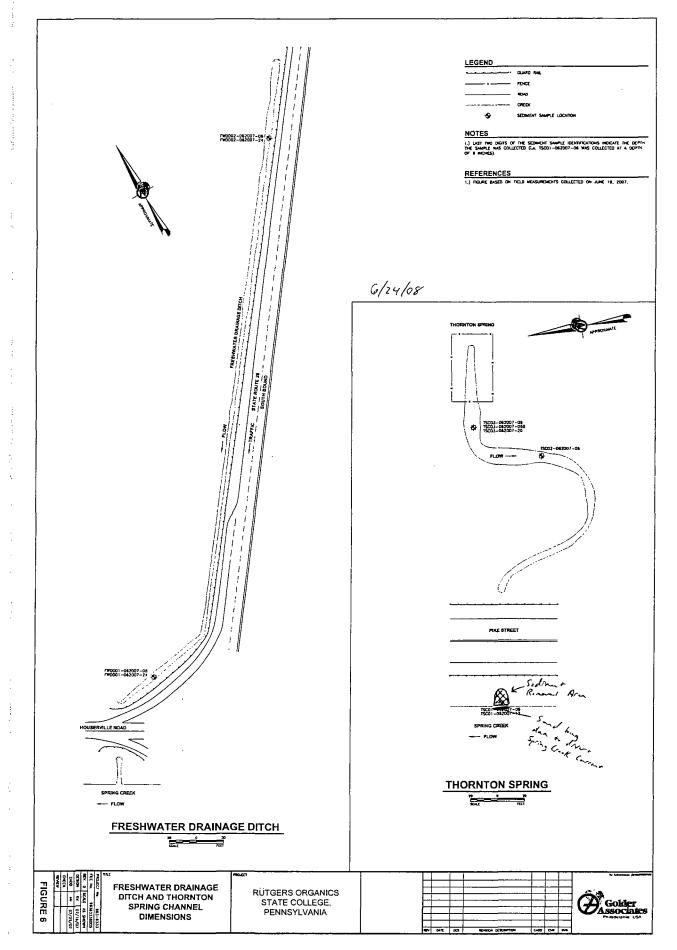
FRESHWATER DRAINAGE DITCH AND THORNTON SPRING CHANNEL DIMENSIONS

RÜTGERS ORGANICS STATE COLLEGE, PENNSYLVANIA









FW0002-082007-09 G5	LEGEND DAMO MAL POSC HOSO COREM SEDMENT SAMPLE LOCATION NOTES 1.) LAST TWO DIGITS OF THE SEDMENT SAMPLE FORMERCATIONS INDICATE THE DEPTH THE SAMPLE MAS COLLECTED (I.e. TSC01-08/007-08 WAS COLLECTED AT A DIPTH OF 8 NOTES). REFERENCES 1.) FROME BASID ON TREA MEASUREMENTS COLLECTED ON JAME 18, 2007
FRESHWATER DEVANGE DTCS	THORNTON EPRONG THORNOOD EPRONG THORNTON EPRONG THORNT
PRICO -08,0007-04 25 1 1 1 1 1 1 1 1 1	PPOG STREET SCOT-OB TSCOT-OB
FRESHWATER DRAINAGE DITCH FRESHWATER DRAINAGE DITCH FRESHWATER DRAINAGE FRESHWATER DRAINAGE FRESHWATER DRAINAGE DITCH AND THORNTON SPRING CHANNEL DIMENSIONS FRESHWATER DRAINAGE PENNSYLVANIA	THORNTON SPRING THORNO THORNTON SPRING THORNTON SPRING

APPENDIX C LABORATORY ANALYTICAL DATA PACKAGES

POST-EXCAVATION CONFIRMATORY SAMPLE
LABORATORY DATA

Client Sample ID: TSC01-61808

GC Semivolatiles

Lot-Sample #: Date Sampled: Prep Date: Prep Batch #:	06/18/08 10:15 07/23/08	Date Re	==	06/20/08	М	atrio	·····	SO
Dilution Factor:		Initial	l Wgt/Vol:	30.08 g	F	inal	Wgt/Vol:	10 mL
% Moisture:	16	Method.	:	SW846 80	81A			
PARAMETER Kepone Mirex		RESULT 190 & 3.5 J	<u></u>	REPORTING LIMIT 39 3.9	G <u>UNITS</u> ug/kg ug/kg		-	
		PERCENT	r	RECOVERY				
SURROGATE		RECOVER	RY	LIMITS				
Tetrachloro-m-xyl	ene	92		(31 - 13)	1)			
Decachlorobipheny	1	90		(18 - 14)	5)			

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Client Sample ID: TSC02-61808

GC Semivolatiles

Lot-Sample #: A8F200197-002 Date Sampled: 06/18/08 10:20		-	Matrix S0
Prep Date: 07/23/08	Analysis Date:	08/04/08	
Prep Batch #: 8205097			
Dilution Factor: 2	<pre>Initial Wgt/Vol:</pre>	30.1 g	Final Wgt/Vol: 10 mL
% Moisture: 30	Method:	SW846 8081A	
PARAMETER Kepone Mirex	RESULT 580 P J ND UJ	94 ug	<u>ITS</u> 1 /kg 1/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	83	(31 - 131)	
Decachlorobiphenyl	132	(18 - 145)	

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: TSC03-61808

GC Semivolatiles

Lot-Sample #: A8F200197-	003 Work Order #	: KQA3Q1AC	Matrix SO
Date Sampled: 06/18/08 1	0:30 Date Received	: 06/20/08	
Prep Date: 06/24/08	Analysis Date	: 06/27/08	
Prep Batch #: 8176348			
Dilution Factor: 2	<pre>Initial Wgt/Vol:</pre>	: 30.08 g	Final Wgt/Vol: 10 mL
% Moisture: 26	Method	: SW846 8081A	
		REPORTING	
PARAMETER	RESULT	LIMIT U	NITS
Kepone	930 🔀 🏋	89 u	ıg/kg
Mirex	ND	8.9 u	ıg/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	111	(31 - 131)	
Decachlorobiphenyl	189 *	(18 - 145)	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

PG. The percent difference between the original and confirmation analyses is greater than 40%.

Surrogate recovery is outside stated control limits.

Client Sample ID: FD01-61808

GC Semivolatiles

Lot-Sample #: As Date Sampled: 06 Prep Date: 07 Prep Batch #: 83	6/18/08 7/23/08	Work Order #: Date Received: Analysis Date:	06/20/08	Matri	x:	so
Dilution Factor: 2		<pre>Initial Wgt/Vol:</pre>	30.16 g	Final	Wgt/Vol:	10 mL
% Moisture: 28	8	Method:	SW846 8081	A		
			REPORTING			
PARAMETER		RESULT	LIMIT	UNITS		
Kepone		150 B	91	ug/kg		
Mirex		ND	9.1	ug/kg		
		PERCENT	RECOVERY			
SURROGATE		RECOVERY	LIMITS			
Tetrachloro-m-xyler	ne	44	(31 - 131)			
Decachlorobiphenyl		43	(18 - 145)			

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

WASTE PILE CHARACTERIZATION SAMPLE LABORATORY DATA

Client Sample ID: WP01-062508

GC/MS Volatiles

Lot-Sample #...: A8F270218-001 Work Order #...: KQQEJ1AC Matrix.....: SO

Date Sampled...: 06/25/08 13:20 Date Received..: 06/27/08 Prep Date....: 07/07/08 Analysis Date..: 07/07/08

Prep Batch #...: 8190201

Dilution Factor: 1

% Moisture....: 16 **Method.....:** SW846 8260B

		REPORTIN	REPORTING			
PARAMETER	RESULT	LIMIT	UNITS			
Acetone	ND ·	24	ug/kg			
Benzene	ND	5.9	ug/kg			
Bromodichloromethane	ND	5.9	ug/kg			
Bromoform	ND	5.9	ug/kg			
Bromomethane	ND	5.9	ug/kg			
2-Butanone	ND	24	ug/kg			
Carbon disulfide	0.61 J	5.9	ug/kg			
Carbon tetrachloride	ND	5.9	ug/kg			
Chlorobenzene	ND	5.9	ug/kg			
Dibromochloromethane	ND	5.9	ug/kg			
Chloroethane	ND	5.9	ug/kg			
Chloroform	ND	5.9	ug/kg			
Chloromethane	ND	5.9	ug/kg			
1,2-Dichlorobenzene	ND	5.9	ug/kg			
1,3-Dichlorobenzene	ND	5.9	ug/kg			
1,4-Dichlorobenzene	ND	5.9	ug/kg			
1,1-Dichloroethane	ND	5.9	ug/kg			
1,2-Dichloroethane	ND	5.9	ug/kg			
cis-1,2-Dichloroethene	0.69 J	5.9	ug/kg			
trans-1,2-Dichloroethene	0.92 J	5.9	ug/kg			
1,1-Dichloroethene	ND	5.9	ug/kg			
1,2-Dichloropropane	ND	5.9	ug/kg			
cis-1,3-Dichloropropene	ND	5.9	ug/kg			
trans-1,3-Dichloropropene	ND	5.9	ug/kg			
Ethylbenzene	ND .	5.9	ug/kg			
2-Hexanone	ND	24	ug/kg			
Methylene chloride	ND	5.9	ug/kg			
4-Methyl-2-pentanone	ND	24	ug/kg			
Styrene	ND	5.9	ug/kg			
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg			
Tetrachloroethene	ND	،5.9	ug/kg			
Toluene	ИD	5.9	ug/kg			
1,2,4-Trichloro-	ND	5.9	ug/kg			
benzene						
1,1,1-Trichloroethane	ND	5.9	ug/kg			
1,1,2-Trichloroethane	ND	5.9	ug/kg			
Trichloroethene	ND	5.9	ug/kg			
Vinyl chloride	ND	5.9	ug/kg			

(Continued on next page)

Client Sample ID: WP01-062508

GC/MS Volatiles

Lot-Sample #: A8F270218-001	Work Order #:	KQQEJ1AC	Matrix SO
PARAMETER	RESULT	REPORTING LIMIT	UNITS
Xylenes (total)	ND	12	ug/kg
·	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	85	(59 - 138)	
1,2-Dichloroethane-d4	80	(61 - 130)	
Toluene-d8	93	(60 - 143)	•
4-Bromofluorobenzene	122	(47 - 158)	
NOTE(S):			

J Estimated result. Result is less than RL.

Client Sample ID: WP01-062508

TCLP GC/MS Volatiles

Lot-Sample #:	A8F270218-001	Work Order	# * KOOEJ1AF	Matrix	SO

Date Sampled...: 06/25/08 13:20 Date Received..: 06/27/08

Leach Date....: 07/02/08 Prep Date....: 07/03/08 Analysis Date..: 07/03/08

Leach Batch #..: P818404 Prep Batch #...: 8185353

Dilution Factor: 1

% Moisture....: 16 Method.....: SW846 8260B

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
2-Butanone (MEK)	ND	0.25	mg/L
Benzene	ND	0.025	mg/L
Carbon tetrachloride	ND	0.025	mg/L
Chlorobenzene	ND	0.025	mg/L
Chloroform	ND	0.025	mg/L
1,2-Dichloroethane	ND	0.025	mg/L
1,1-Dichloroethylene	ND	0.070	mg/L
Tetrachloroethylene	ND	0.070	mg/L
Trichloroethylene	ND	0.050	mg/L
Vinyl chloride	ND	0.025	mg/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Dibromofluoromethane	87	(86 - 125)	1
1,2-Dichloroethane-d4	90	(80 - 122)	1
Toluene-d8	99	(90 - 122)	1
4-Bromofluorobenzene	105	(84 - 125)	•

NOTE(S):

Client Sample ID: WP01-062508

TCLP GC/MS Semivolatiles

Lot-Sample #...: A8F270218-001 Work Order #...: KQQEJ1AG Matrix.....: SO

Date Sampled...: 06/25/08 13:20 Date Received..: 06/27/08 Leach Date....: 07/02/08 Prep Date....: 07/03/08

Prep Date....: 07/03/08 Analysis Date..: 07/07/08

Leach Batch #..: P818413 Prep

Prep Batch #...: 8185028

Dilution Factor: 1 % Moisture....: 16

Method..... SW846 8270C

PARAMETER o-Cresol m-Cresol & p-Cresol 1,4-Dichlorobenzene 2,4-Dinitrotoluene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Nitrobenzene	RESULT ND	REPORTING LIMIT 0.0040 0.040 0.0040 0.020 0.020 0.020 0.020 0.020 0.020	UNITS mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L
Pentachlorophenol Pyridine 2,4,5-Trichloro- phenol 2,4,6-Trichloro- phenol	ND	0.040	mg/L
	ND	0.040	mg/L
	ND	0.020	mg/L
	ND	0.020	mg/L

	PERCENT	RECOVERY
SURROGATE	RECOVERY	LIMITS
Nitrobenzene-d5	68	(29 - 111)
2-Fluorobiphenyl	58	(22 - 110)
Terphenyl-d14	88	(40 - 119)
Phenol-d5	54	(10 - 110)
2-Fluorophenol	55	(10 - 110)
2,4,6-Tribromophenol	64	(17 - 117)

NOTE (S):

Client Sample ID: WP01-062508

TCLP GC Semivolatiles

Lot-Sample #: A8F270218-001	Work Order #: KQQEJ1AH	Matrix SO
Date Sampled: 06/25/08 13:20	Date Received: 06/27/08	
Leach Date: 07/02/08	Prep Date: 07/03/08	Analysis Date: 07/07/08
Leach Batch #: P818413	Prep Batch #: 8185029	
Dilution Factor: 1		

DIRECTOR LEGICAL.	*			
% Moisture:	16	Method:	SW846	8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Chlordane (technical)	ND	0.0050	mg/L
Endrin	ND	0.00050	mg/L
Heptachlor	ND	0.00050	mg/L
Heptachlor epoxide	ND	0.00050	mg/L
Lindane	ND	0.00050	mg/L
Methoxychlor	ND	0.0010	mg/L
Toxaphene	ND	0.020	mg/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	_
Decachlorobiphenyl	115	(31 - 115)	
Tetrachloro-m-xylene	101	(47 - 110)	

NOTE(S):

Client Sample ID: WP01-062508

TCLP GC Semivolatiles

Lot-Sample #: A8F270218-001 Date Sampled: 06/25/08 13:20			Matrix SO
Leach Date: 07/02/08 Leach Batch #: P818413 Dilution Factor: 1	Prep Date: Prep Batch #:		Analysis Date: 07/08/08
% Moisture: 16	Method:	SW846 8151A	
PARAMETER 2,4-D 2,4,5-TP (Silvex)	RESULT ND JJ ND	LIMIT 0.50	JNITS ng/L ng/L
SURROGATE 2,4-Dichlorophenylacetic acid	PERCENT RECOVERY 42	RECOVERY LIMITS (37 - 116)	

NOTE(S):

Client Sample ID: WP01-062508

TCLP Metals

Lot-Sample #...: A8F270218-001 Matrix.....: S0

Date Sampled...: 06/25/08 13:20 Date Received.: 06/27/08

Leach Date....: 07/02/08 Leach Batch #..: P818413

PARAMETER	RESULT	REPORTING LIMIT	G <u>UNITS</u>	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #	8185016					
Arsenic	ND	0.50 Dilution Fact	mg/L cor: 1	SW846 6010B	07/03-07/07/08	KQQEJ1AJ
Barium	ND	10.0 Dilution Fact	٥.	SW846 6010B	07/03-07/07/08	KQQEJ1AK
Cadmium	ND	0.10 Dilution Fact	mg/L	SW846 6010B	07/03-07/07/08	KQQEJ1AL
Chromium	ND	0.50 Dilution Fact	mg/L	SW846 6010B	07/03-07/07/08	KQQEJ1AM
Lead	ND	0.50 Dilution Fact	mg/L cor: 1	SW846 6010B	07/03-07/07/08	KQQEJlAN
Selenium	ND	0.25 Dilution Fact	mg/L	SW846 6010B	07/03-07/07/08	KQQEJlAP
Silver	ND	0.50 Dilution Fact	mg/L	SW846 6010B	07/03-07/07/08	KQQEJlAQ
Mercury	ND	0.0020 Dilution Fact	mg/L	SW846 7470A	07/03-07/08/08	KQQEJlAR
NOTE(S):						

Client Sample ID: WP01-062508

General Chemistry

Lot-Sample #...: A8F270218-001 Work Order #...: KQQEJ Matrix....: 50

Date Sampled...: 06/25/08 13:20 Date Received..: 06/27/08 % Moisture....: 16

						PREPARATION-	PREP
PARAMETER	RESULT	RL	UNITS	METHO:	Ď	ANALYSIS DATE	BATCH #
Corrosivity	8.0		No Units	SW846	9045C	06/27/08	8179399
		Dilution Fact	cor: 1			•	
Cyanide, Total	ND	0.50	mg/kg	SW846	9012A	07/03/08	8185418
		Dilution Fact	or: 1				
Flashpoint	>180		deg F	SW846	1010	07/08/08	8190426
		Dilution Fact	or: 1				
Oil and Grease (Gravimetric)	ND	200	mg/kg	SW846	9071B-MOD H	07/10/08	8192479
		Dilution Fact	or: 1				
Paint Filter Test	NEG	0.10	8	SW846	9095A	07/09/08	8191111
		Dilution Fact	or: 1				
Percent Solids	84.2	10.0	96	MCAWW	160.3 MOD	07/02-07/03/08	8184449
		Dilution Fact	or: 1				
Total Extractable Organic Halogens	ND	200	mg/kg	SW846	9023	07/09/08	8191112
		Dilution Fact	or: 1				
Total Sulfide	ND	30.0	mg/kg	SW846	9030B/9034	06/30-07/01/08	8182010
		Dilution Fact	or: 1				
NOTE (S):							

RL Reporting Limit

NEG Negative

Client Sample ID: WP01-062508

GC Semivolatiles

Lot-Sample #...: A8F270218-001 Work Order #...: KQQEJ1A4 Matrix.....: SO

Date Sampled...: 06/25/08 13:20 Date Received..: 06/27/08 Prep Date....: 07/03/08 Analysis Date..: 07/09/08

Prep Batch #...: 8185051

Dilution Factor: 1

% Moisture....: 16 Method.....: SW846 8082

		REPORTIN	G
PARAMETER	RESULT	LIMIT	UNITS
Aroclor 1016	ND	33	ug/kg
Aroclor 1221	ND	33	ug/kg
Aroclor 1232	ND	33	ug/kg
Aroclor 1242	ND	33	ug/kg
Aroclor 1248	ND	33	ug/kg
Aroclor 1254	ND	33	ug/kg
Aroclor 1260	ND	33	ug/kg
	PERCENT	RECOVERY	

PERCENT RECOVERY
SURROGATE RECOVERY LIMITS
Tetrachloro-m-xylene 114 (10 - 196)
Decachlorobiphenyl 164 (10 - 199)

Client Sample ID: WP01-062508

GC Semivolatiles

Lot-Sample #: A8F270228-001 Date Sampled: 06/25/08 13:2 Prep Date: 07/05/08 Prep Batch #: 8186020		06/27/08	Matrix: SO
Dilution Factor: 10	Initial Wgt/Vol:	30.2 g	Final Wgt/Vol: 10 mL
% Moisture: 16	Method:	SW846 8081	A
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Kepone	500 T	390	ug/kg
Mirex	72	39	ug/kg
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS	
Tetrachloro-m-xylene	107 DIL	(31 - 131)	
Decachlorobiphenyl	139 DIL	(18 - 145)	
NOTE(S);			·

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Client Sample ID: WP02-062508

GC/MS Volatiles

Lot-Sample #...: A8F270218-002 Work Order #...: KQQF31AF Matrix...... SO

Date Sampled...: 06/25/08 13:30 Date Received..: 06/27/08 Prep Date....: 07/03/08 Analysis Date..: 07/03/08

Prep Batch #...: 8189246

Dilution Factor: 1

% Moisture....: 10 Method.....: SW846 8260B

		REPORTING		
PARAMETER	RESULT	LIMIT	UNITS	
Acetone	ND	22	ug/kg	-
Benzene	ND	5.6	ug/kg	
Bromodichloromethane	ND	5.6	ug/kg	
Bromoform	ND	5.6	ug/kg	
Bromomethane	ND	5.6	ug/kg	
2-Butanone	ND	22	ug/kg	
Carbon disulfide	0.59 J	5.6	ug/kg	
Carbon tetrachloride	ND	5.6	ug/kg	
Chlorobenzene	ND	5.6	ug/kg	
Dibromochloromethane	ND	5.6	ug/kg	
Chloroethane	ND	5.6	ug/kg	
Chloroform	ND	5.6	ug/kg	
Chloromethane	ND	5.6	ug/kg	
1,2-Dichlorobenzene	ND	5.6	ug/kg	
1,3-Dichlorobenzene	ND	5.6	ug/kg	
1,4-Dichlorobenzene	ND	5.6	ug/kg	
1,1-Dichloroethane	ND	5.6	ug/kg	
1,2-Dichloroethane	ND	5.6	ug/kg	
cis-1,2-Dichloroethene	ND	5.6	ug/kg	
trans-1,2-Dichloroethene	ND	5.6	ug/kg	
1,1-Dichloroethene	ND	5.6	ug/kg	
1,2-Dichloropropane	ND	5.6	ug/kg	
cis-1,3-Dichloropropene	ND	5.6	ug/kg	
trans-1,3-Dichloropropene	ND	5.6	ug/kg	
Ethylbenzene	1.1 يل _ك 1.3	5.6	ug/kg	
2-Hexanone	ND	22	ug/kg	
Methylene chloride	ND	5.6	ug/kg	
4-Methyl-2-pentanone	ND	22	ug/kg	
Styrene	1.3 48 6	5.6	ug/kg	
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	
Tetrachloroethene	ND	5.6	ug/kg	
Toluene	ND	5.6	ug/kg	
1,2,4-Trichloro-	ND	5.6	ug/kg	
benzene				
1,1,1-Trichloroethane	ND	5.6	ug/kg	
1,1,2-Trichloroethane	ND .	5.6	ug/kg	
Trichloroethene	ND	5.6	ug/kg	
Vinyl chloride	ND	5.6	ug/kg	

(Continued on next page)

Client Sample ID: WP02-062508

GC/MS Volatiles

Lot-Sample #...: A8F270218-002 Work Order #...: KQQF31AF Matrix.....: SO

PARAMETER Xylenes (total)	RESULT 3.5 TB B	REPORTING LIMIT 11	UNITS ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	85	(59 - 138)	
1,2-Dichloroethane-d4	75	(61 - 130)	
Toluene-d8	93	(60 - 143)	
4-Bromofluorobenzene	149	(47 - 158)	

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Client Sample ID: WP02-062508

TCLP GC/MS Volatiles

Lot-Sample	#:	A8F270218-002	Work Order	#: KQQF31AJ	Matrix: SO
------------	-----------	---------------	------------	-------------	------------

Date Sampled...: 06/25/08 13:30 Date Received..: 06/27/08

Leach Date....: 07/02/08 Prep Date....: 07/03/08 Analysis Date..: 07/03/08

Leach Batch #..: P818404 Prep Batch #...: 8185353

Dilution Factor: 1

% Moisture....: 10 Method.....: SW846 8260B

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
2-Butanone (MEK)	ND ND	0.25	mg/L
Benzene	ND	0.025	mg/L
Carbon tetrachloride	ND	0.025	mg/L
Chlorobenzene	ND	0.025	mg/L
Chloroform	ND	0.025	mg/L
1,2-Dichloroethane	ND	0.025	mg/L
1,1-Dichloroethylene	ND	0.070	mg/L
Tetrachloroethylene	ND	0.070	mg/L
Trichloroethylene	ND	0.050	mg/L
Vinyl chloride	ND	0.025	mg/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Dibromofluoromethane	87	(86 - 125)	-
1,2-Dichloroethane-d4	87	(80 - 122)	
Toluene-d8	97	(90 - 122)	
4-Bromofluorobenzene	102	(84 - 125)	

NOTE(S):

Client Sample ID: WP02-062508

TCLP GC/MS Semivolatiles

Lot-Sample #:	A8F270218-002	Work Order #	 KOOF31AK 	Matrix	. • SO
TOC-DUMPTE #	MOLZ / UZ TO TOZ	MOTE OTOGE H	• • VÕÕL TIVV	MOLLIA	20

Date Sampled...: 06/25/08 13:30 Date Received..: 06/27/08

Leach Date....: 07/02/08 Prep Date....: 07/03/08 Analysis Date..: 07/07/08

Leach Batch #..: P818413 Prep Batch #...: 8185028

Dilution Factor: 1

% Moisture....: 10 Method.....: SW846 8270C

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
o-Cresol	ND	0.0040	mg/L
m-Cresol & p-Cresol	ND	0.040	mg/L
1,4-Dichlorobenzene	ND	0.0040	mg/L
2,4-Dinitrotoluene	ND	0.020	mg/L
Hexachlorobenzene	ND	0.020	mg/L
Hexachlorobutadiene	ND	0.020	mg/L
Hexachloroethane	ND	0.020	mg/L
Nitrobenzene	ND	0.0040	mg/L
Pentachlorophenol	ND	0.040	mg/L
Pyridine	ND	0.020	mg/L
2,4,5-Trichloro- phenol	ND	0.020	mg/L
2,4,6-Trichloro- phenol	ND	0.020	mg/L

	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Nitrobenzene-d5	68	(29 - 111)	
2-Fluorobiphenyl	61	(22 - 110)	
Terphenyl-d14	90	(40 - 119)	
Phenol-d5	59	(10 - 110)	
2-Fluorophenol	62	(10 - 110)	
2,4,6-Tribromophenol	72	(17 - 117)	

NOTE(S):

Client Sample ID: WP02-062508

TCLP GC Semivolatiles

Lot-Sample	# :	A8F270218-002	Work Order	#: KQQF31AL	Matrix SO
------------	------------	---------------	------------	-------------	-----------

Date Sampled...: 06/25/08 13:30 Date Received..: 06/27/08

Leach Date....: 07/02/08 Prep Date....: 07/03/08 Analysis Date..: 07/07/08

Leach Batch #..: P818413 Prep Batch #...: 8185029

Dilution Factor: 1

% Moisture....: 10 Method....: SW846 8081A

		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Chlordane (technical)	ND	0.0050	mg/L
Endrin	ND	0.00050	${ t mg/L}$
Heptachlor	ND	0.00050	mg/L
Heptachlor epoxide	ND	0.00050	mg/L
Lindane	ND	0.00050	mg/L
Methoxychlor	ND	0.0010	mg/L
Toxaphene	ND	0.020	mg/L
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Decachlorobiphenyl	101	(31 - 115)	
Tetrachloro-m-xylene	105	(47 - 110)	

NOTE(S):

Client Sample ID: WP02-062508

TCLP GC Semivolatiles

Lot-Sample #: A8F270218-002	Work Order #:	KQQF31A0	Matrix:	so
Date Sampled: 06/25/08 13:3	0 Date Received:	06/27/08		
Leach Date: 07/02/08	Prep Date:	07/03/08	Analysis Date:	07/08/08
Leach Batch #: P818413	Prep Batch #:	8185025		
Dilution Factor: 1				
% Moisture: 10	Method:	SW846 8151A		
		REPORTING		
PARAMETER	RESULT	LIMIT UNI	TTS	
2,4-D	ND UJ	0.50 mg/	'L	
2,4,5-TP (Silvex)	ND	0.10 mg/	'L	
	PERCENT	RECOVERY		

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

2,4-Dichlorophenylacetic acid

Client Sample ID: WP02-062508

TCLP Metals

Lot-Sample #...: A8F270218-002 Matrix....: S0

Date Sampled...: 06/25/08 13:30 Date Received..: 06/27/08 Leach Date....: 07/02/08 Leach Batch #..: P818413

PARAMETER	RESULT	REPORTING LIMIT	G UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch	#: 8185016					
Arsenic	ND	0.50 Dilution Fact	mg/L :or: 1	SW846 6010B	07/03-07/07/08	KQQF31AM
Barium	ND	10.0 Dilution Fact	-	SW846 6010B	07/03-07/07/08	KQQF31AN
Cadmium	ND	0.10 Dilution Fact	-	SW846 6010B	07/03-07/07/08	KQQF31AP
Chromium	ND	0.50 Dilution Fact	•	SW846 6010B	07/03-07/07/08	KQQF31AQ
Lead	ND	0.50 Dilution Fact		SW846 6010B	07/03-07/07/08	KQQF31AR
Selenium	ND	0.25 Dilution Fact	mg/L	SW846 6010B	07/03-07/07/08	KQQF31AT
Silver	ND	0.50 Dilution Fact	mg/L or: 1	SW846 6010B	07/03-07/07/08	KQQF31AU
Mercury	ND	0.0020 Dilution Fact	mg/L or: 1	SW846 7470A	07/03-07/08/08	KQQF31AV
NOTE(S):						

Client Sample ID: WP02-062508

General Chemistry

Lot-Sample #...: A8F270218-002 Work Order #...: KQQF3 Matrix.....: S0

Date Sampled...: 06/25/08 13:30 Date Received..: 06/27/08

% Moisture....: 10

PARAMETER	RESULT	RL	UNITS	METHO	D	PREPARATION- ANALYSIS DATE	PREP BATCH #
Corrosivity	8.0	Dilution Fact	No Units	SW846	9045C	06/27/08	8179399
Cyanide, Total	ИD	0.50 Dilution Fact	mg/kg or: 1	SW846	9012A	07/03/08	8185418
Flashpoint	>180	Dilution Fact	deg F	SW846	1010	07/08/08	8190426
Oil and Grease (Gravimetric)	ND	200	mg/kg	SW846	9071B-MOD H	07/10/08	8192479
		Dilution Fact	or: 1				
Paint Filter Test	NEG	0.10 Dilution Factor	% or: 1	SW846	9095A	07/09/08	8191111
Percent Solids	89.8	10.0	% or: 1	MCAWW	160.3 MOD	07/02-07/03/08	8184449
Total Extractable Organic Halogens	ND	200	mg/kg	SW846	9023	07/09/08	8191112
		Dilution Facto	or: 1				
Total Sulfide	ND	30.0 Dilution Factor	mg/kg or: 1	SW846	9030B/9034	06/30-07/01/08	8182010
NOTE (S) •							

NOTE(S):

RL Reporting Limit NEG Negative

Client Sample ID: WP02-062508

GC Semivolatiles

Lot-Sample #: A8F270218-002 Date Sampled: 06/25/08 13:30 Prep Date: 07/03/08 Prep Batch #: 8185051 Dilution Factor: 1		06/27/08	Matrix: SO
% Moisture: 10	Method:	SW846 8082	
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS _
Aroclor 1016	ND	33	ug/kg
Aroclor 1221	ND	33	ug/kg
Aroclor 1232	ND	33	ug/kg
Aroclor 1242	ND	33	ug/kg
Aroclor 1248	ND	33 ·	ug/kg
Aroclor 1254	ND	33	ug/kg
Aroclor 1260	ND	33	ug/kg
SURROGATE Tetrachloro-m-xylene Decachlorobiphenyl	PERCENT RECOVERY 88 132	RECOVERY LIMITS (10 - 196) (10 - 199)	

North Canton 24

Client Sample ID: WP02-062508

GC Semivolatiles

Lot-Sample #: A8F270228-	002 Work Order #	: KQQHKlaa	Matrix: SO
Date Sampled: 06/25/08 1	3:30 Date Received	: 06/27/08	
Prep Date: 07/05/08	Analysis Date	: 07/11/08	
Prep Batch #: 8186020			
Dilution Factor: 10	Initial Wgt/Vol	: 30.16 g	Final Wgt/Vol: 10 mL
% Moisture: 10	Method	: SW846 8081A	
			•
		REPORTING	
PARAMETER	RESULT	LIMIT	UNITS
Kepone	660 T	370	ug/kg
Mirex	88	37	ug/kg
	PERCENT	RECOVERY	
SURROGATE	RECOVERY	LIMITS	
Tetrachloro-m-xylene	112 DIL	(31 - 131)	
Decachlorobiphenyl	145 DIL	(18 - 145)	
NOTE(S):			

 $[\]label{eq:def:DIL} \textbf{DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.}$

Results and reporting limits have been adjusted for dry weight.

APPENDIX D ANALYTICAL DATA VALIDATION REPORTS

APPENDIX D DATA QUALITY ASSESSMENT

This report presents the findings of the data quality assessment performed on the analyses of environmental samples collected from the ROC State College Pennsylvania facility. The chemical data for samples collected at the Site were assessed to identify quality issues which could affect the use of the data for decision making purposes.

A total of three post-excavation sediment samples were collected for chemical analysis on June 18, 2008 from the sediments remaining in Thorton Spring Creek. In addition, one field duplicate, and one Matrix Spike/Matrix Spike Duplicate (MS/MSD) were submitted for Quality Control (QC) purposes. Information regarding the sample point identifications, sampling dates, analytical parameters, and QC samples are summarized in Table 1.

All samples were submitted to TestAmerica Inc. of North Canton, Ohio for analysis of mirex and kepone. The samples were analyzed following USEPA SW-846¹ Method 8081A *Organochlorine Pesticides by GC-ECD (December 1996)*. The data were validated following USEPA Region III guidelines *Innovative Approaches to Data Validation, United States Environmental Protection Agency, Region III*, (June 1995), as applicable to the analytical methods. This document is referred to as the EPA Region III guidelines.

Kepone is a difficult analytical target. SW-846 Method 8081A states that "kepone extracted from samples or standards exposed to water or methanol may produce peaks with broad tails that elute later than the standard by up to 1 minute. This shift is presumably the result of the formation of a hemi-acetal from the ketone functionality." The laboratory case narrative highlights the difficulty of establishing consistent calibrations for kepone under SW-846 Method 8081A. The analytical method was chosen because the ECD detector is very sensitive for chlorinated compounds and allows detection and quantitiation of kepone at lower concentrations than the alternatives.

TestAmerica extracted the samples on June 24, 2008 and analyzed the samples on June 27, 2008. However, the continuing calibration associated with this analysis did not meet QC criteria, the relative percent difference between the two analytical columns did not meet QC criteria, and the

¹ USEPA SW-846 Test Methods for Evaluating Solid Waste accessed at URL http://www.epa.gov/epaoswer/hazwaste/test/main.htm

chromatograms showed tailing and interference. The laboratory re-extracted the samples on July 23, 2008 and analyzed the extracts on August 4, 2008 using a different instrument. While the latter extraction and analysis was performed out of holding time, the chromatography performed better. Using professional judgment, the results from the re-analysis are deemed preferable to the results from the primary analysis.

Chemical results for the samples collected at the Site were qualified on the basis of outlying precision or accuracy parameters, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data during the data validation process. Only qualifications to the re-analysis results are included below. The deficiencies associated with the initial analysis are recorded in the data validation documentation.

- B The sample result has been negated due probable foreign contamination.
- J The sample quantification is estimated.
- **K** The sample quantification is estimated. The value reported may be biased high.
- **UJ** The analyte was not detected. The value reported is estimated.

In general, the data generated for the post-excavation samples met the QC criteria established in the respective analytical methods and EPA Region III data validation guidelines. The following bulleted items highlight qualifications to specific parameters. Although these qualifications were applied to some of the samples collected at the site, the qualifications may not have been required or applied to all samples collected. Table 3 summarizes all qualifications applied to the data, with applicable qualifier codes.

- Field sample results for kepone were negated (B) due to method blank contamination.
- Field sample results were qualified as estimated, biased high (K) due to surrogate recoveries above QC limits.
- Field sample results were qualified as estimated (J) because the extraction occurred after the expiration of the holding time.
- Field sample results were qualified as estimated (J) for field duplicate relative percent difference greater than the OC criteria.

Based on the data validations and data quality assessment, the analytical data for samples collected at the Site were determined to be acceptable (including estimated data) for their intended use. Generally acceptable levels of accuracy and precision, based on Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicates, field duplicate and surrogate recoveries, were achieved for the data. All analyses except the laboratory pH measurement were performed within holding time. In addition, the data completeness (i.e. the ratio of the amount of valid data obtained to the amount expected, including estimated (J/K) data but excluding R qualified data) was 100%, which met the data quality goal of 95% for this monitoring program.







Data Qualifications Centre County Kepone Site State College, PA

Field ID	Analyte	New Result	New RL	Qualifier	Comments
all	all	- 1	-	J/UJ	analyzed after the technical holding time
FD01-61808	Kepone		-	В	Method blank contamination.
TSC03-61808	Kepone	-		K	Surrogate recovery above QC limits
TSC03-61808	Mirex	-	-	К	Surrogate recovery above QC limits
TSC02-61808	Kepone	-	-	J	Field duplicate RPD > 50%
FD01-61808	Kepone	-	-	J	Field duplicate RPD > 50%

Note:

J = Estimated results

K = Estimated, biased high

UJ = Estimated non-detect

B = Blank contamination

RL = Reporting limit

QC = Quality Control

RPD = Relative Percent Difference

APPENDIX D DATA QUALITY ASSESSMENT – DISPOSAL CHARACTERIZATION SAMPLES

This report presents the findings of the data quality assessment performed on the analyses of environmental samples collected from the ROC State College Pennsylvania facility. The chemical data for samples collected at the Site were assessed to identify quality issues which could affect the use of the data for decision making purposes.

A total of two composite samples were collected from the excavated sediment waste piles for chemical analysis on June 25, 2008. Information regarding the sample point identifications, sampling dates, analytical parameters, and analytical methods are summarized in Table 1. All samples were submitted to TestAmerica Inc. of North Canton, Ohio for analysis of the parameters indicated in Table 1.

The mirex and kepone data were validated following USEPA Region III guidelines *Innovative Approaches to Data Validation, United States Environmental Protection Agency, Region III*, (June 1995), as applicable to the analytical methods. This document is referred to as the EPA Region III guidelines. The remaining analyses were reviewed for adherence to holding times, blank contamination, and deficiencies highlighted by the laboratory case narratives.

Kepone is a difficult analytical target. SW-846 Method 8081A states that "kepone extracted from samples or standards exposed to water or methanol may produce peaks with broad tails that elute later than the standard by up to 1 minute. This shift is presumably the result of the formation of a hemi-acetal from the ketone functionality." The laboratory case narrative highlights the difficulty of establishing consistent calibrations for kepone under SW-846 Method 8081A. The analytical method was chosen because the ECD detector is very sensitive for chlorinated compounds and allows detection and quantitiation of kepone at lower concentrations than the alternatives.

Chemical results for the samples collected at the Site were qualified on the basis of outlying precision or accuracy parameters, or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data during the data validation process.

- B The sample result has been negated due probable foreign contamination.
- **J** The sample quantification is estimated.
- **UJ** The analyte was not detected. The value reported is estimated.

In general, the data generated for the disposal samples met the QC criteria established in the respective analytical methods and EPA Region III data validation guidelines. The following bulleted items highlight qualifications to specific parameters. Although these qualifications were applied to some of the samples collected at the site, the qualifications may not have been required or applied to all samples collected. Table 2 summarizes all qualifications applied to the data, with applicable qualifier codes.

- Field sample results for ethylbenzene, styrene and xylenes were negated (B) due to method blank contamination.
- Non-detect field sample results for 2,4-D were qualified as estimated (UJ) because the analyte recovered below the laboratory QC Criteria in the Laboratory Control Sample (LCS).
- Field sample results for mirex were qualified as estimated (J) because the laboratory did not include mirex in the LCS nor analyze a matrix spike/matrix spike duplicate; however, the analysis was accompanied by an in-control LCS for non-target pesticide analytes.
- Field sample results for kepone were qualified as estimated (J) for relative percent difference between the analytical columns between 25% and 100%.

Based on the data validations and data quality assessment, the analytical data for samples collected at the Site were determined to be acceptable (including estimated data) for their intended use. Generally acceptable levels of accuracy and precision, based on Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicates, field duplicate and surrogate recoveries, were achieved for the data. All analyses except the laboratory pH measurement were performed within holding time. In addition, the data completeness (i.e. the ratio of the amount of valid data obtained to the amount expected, including estimated (J/K) data but excluding R qualified data) was 100%, which met the data quality goal of 95% for this monitoring program.





Data Qualifications Centre County Kepone Site State College, PA

Field ID	Analyte	New Result	New RL	Qualifier	Comments
Sample Name	Analysis	Constituent(s)	Result	Qualifier	Reason
WP02-062508	Kepone	-	-	J	%D between columns >25% and < 100%
WP01-062508	Mirex	-	-	J	No LCS or MS/MSD analyzed
WP02-062508	Mirex	-		J	No LCS or MS/MSD analyzed
WP02-062508	ethylbenzene	-	-	В	Method blank contamination.
WP02-062508	styrene	-	-	В	Method blank contamination.
WP02-062508	xylenes	-	-	В	Method blank contamination.
All	2,4-D	-	-	υJ	LCS recovery below QC limits.

J = Estimated results

K = Estimated, biased high

UJ = Estimated non-detect

B = Blank contamination

RL = Reporting limit

QC = Quality Control

RPD = Relative Percent Difference

LCS = Laboratory Control Sample

APPENDIX E

Non-Hazardous Disposal Documentation

USEPA DISPOSAL FACILITY APPROVAL LETTER



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III 1650 Arch Street Philadelphia, Pennsylvania 19103-2029

August 25, 2008

Mr. Kevin McCullen Golder Associates Inc. 200 Century Parkway, Suite C Mt. Laurel, NJ 08054

RE: Centre County Kepone Site; Sediment Removal Action Disposal Plans

Dear Mr. McCullen:

This is in response to the Golder Associates letter of April 15, 2008, which presented RUTGERS Organics Corporation's (ROC) disposal plans for sediments from the OU2 Sediment Removal Action at the Centre County Kepone Site.

EPA has discussed ROC's plan to send the sediments from the lower Freshwater Drainage Ditch (FWDD) and Thornton Spring Channel to the Wayne Township Landfill (PADEP Waste Disposal Permit No. 100955) in McElhattan, Pennsylvania with PADEP. EPA has no objection with these plans.

Please notify me when the sediments will be disposed and the amount of sediments that were disposed Please include all paperwork related to disposal, including characterization results, in the Removal Action Report.

If you have questions, please contact me at (215) 814-3218.

Sincerely,

Frank Klanchar Project Manager

Western PA and MD Remedial Branch (3HS22)

cc: Rainer Domalski (ROC) Charles Lawrence (Golder)

Cheryl Sinclair (PADEP)

Customer Service Hotline: 1-800-438-2474

PADEP FORM U-CS



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

DEP USE ONLY

Date Received

FORM U-CS REQUEST TO PROCESS OR DISPOSE OF CONTAMINATION SOIL

(OTHER THAN FUEL CONTAMINATION SOIL)

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided herein.

SECTION A. APPLICANT IDENTIFIER						
A.	A. Processing or Disposal Facility					
	1.	Name of facility Wayne Township Landfill				
		Address 264 Landfill Lane Zip 17748				
		Municipality McElhattan County Clinton				
		Telephone Number <u>570-769-7802</u>				
В.	Ger	nerator of the Waste				
	1.	Name of company RUTGERS Organics Corporation				
		Mailing address 201 Struble Road, College Township, PA Zip 16801				
		Location of site if different from mailing address				
		Municipality College Township County Centre				
	2.	If a subsidiary, name of parent co. N / A				
	3.	Identification number				
	4.	Company contact person				
		Name <u>Dr. Rainer Domalski</u> Title <u>President</u>				
		Telephone Number 814-239-9200				
SECTION B. WASTE DESCRIPTION (Must be completed by generator)						
Res	idua	Waste Code				
	☐ 5	02 PCB-Containing Waste (Soil/Debris only)				
	⊠ 5	06 Non-Petroleum Spill Residue/Contaminated Soil				
	□ 5	07 Non-Virgin Petroleum Fuel Contaminated Soil/Debris				

SECTION B. WASTE DESCRIPTION (Must be completed by generator) (continued)

Gor	neral Properties
1.	pH range 8 to 8 (based on analyses or knowledge)
2.	Physical state:
	a. [iquid waste (EPA Method 9095)
•	b. Solid (EPA Method 9095)
3.	Identify the contaminant(s) found in the soil.
	Kepone and Mirex
4.	Describe the source of the contamination.
	Wastewater run-off
5.	Describe the type of facility where spill occurred. Indicate any products, raw materials, or wastes used,
	processed, treated, or stored in the vicinity of the spill or release.
	Kepone and Mirex production.
	·
6.	Current volume or weight of waste to be shipped to processing or disposal facility:
	200 (cubic yards)or tons (circle one)
7.	Is the waste a hazardous waste as defined in 40 CFR 261, as incorporated by reference at 25 Pa. Code
	261.a.1?
	☐ Yes No
8.	Has the waste been delisted as a hazardous waste by DEP? Yes No N/A.
9.	a. Has the waste been accepted for disposal/processing at another Pennsylvania facility? Yes No
	b. If yes, list the facility ID number(s).
10.	a. Has an application for disposal/processing of the waste at another Pennsylvania facility been submitted?
	☐ Yes ⊠ No
	b. If yes, list the facility ID number(s).

SECTION B. WASTE DESCRIPTION (Must be completed by generator) (continued)

Chemical Analysis - Please attach the following:

A description of the waste sampling method, in accordance with the waste sampling plan as required in §271.611(a)(3) or §287.132(a)(3).

On June 25, 2008, a Golder Associates geologist collected two composite samples from the waste pile for characterization. Each composite sample was comprised of material from three sub-locations (see attached copy of Page 87 of field book for hand drawn figure depicting locations). Sample WP01-062508 was collected at 13:20 and WP02-062508 at 13:30. Samples were sent to Test America in North Canton, Ohio for analysis of VOCs, TCLP (VOCs, SVOCs, Metals, and Pesticides/Herbicides), Ignitability, Total Cyanide, Total Sulfide, pH, Paint Filter, TOX, Mirex and Kepone following SW-846 analytical methodology, as shown in the analytical results provided in Section B.2.

The results of a detailed physical and chemical characterization of the waste and its leachate, as described in the instructions.

See attached analysis

Provide a detailed explanation supporting use of generator knowledge in lieu of actual chemical analysis, if applicable.

N/A

The substantiation for a confidentiality claim, as described in the instruction, if portions of the information you have submitted are confidential.

SECTION C. EVALUATION WITH WASTE ANALYSIS AND CLASSIFICATION PLAN (must be completed by facility operator)

*

SECTION D. CERTIFICATION OF DOCUMENTS BY GENERATOR

I certify under penalty of law that I have personally examined and am familiar with the Information submitted in this and all attached documents, and that based upon my inquiry of those individuals immediately responsible for obtaining the information. I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name of Responsible	Rainer Domaly,	Title President & CEO
Signature Raus	Pomash	Date 8/08/08

Taken, sworn, and subscribed before me, this

COMMONWEALZH OF PENINGYLVANIA

RICHARD E. S COLLEGE TWO, CERTIFIE COUNTY MY COMMISSION EXPIRES JAN. 30, 2011

- 3 -

2540-PM-BWM0399 Rev. 4/2006			
SECTION E. CERTIFICATION OF PROCESSING	OR DISPOSAL FACILITY		
I certify under penalty of law that I have personally examined and am familiar with the information submit attached documents, and that based upon my inquiry of those individuals immediately responsible information, I believe that the submitted information is true, accurate, and complete. I am aware that the penalties for submitting false information, including the possibility of fine and imprisonment.			
Name of Responsible			
Official	Title		
Signature	Date		
Taken, sworn, and subscribed before me, this Notary Seal	day of A.D		

WASTE PILE SAMPLE LOCATIONS

BILL OF LADINGS



Please pni					1. Document	No.	2. Page 1
E	BILL OF LADING				RUTO	61608E	of 1
1	Generator's Name and Mailing Address RUT	GERS ORGANIC	CS CORP		Site Address		
3.		STRUBLE RD			RT 26 9	SOUTH	
1 1		TE COLLEGE	PA 16801		ľ	COLLEGE PA 168	301
4. ¹	Generator's Phone (814) 238-2424						
5.	Transporter 1 Company Name		3.		A. State Trans	porter's ID	· 15 " :
E	NVIRONMENTAL PROD & SE	OF VT. INC			B. Transporter	1 Phone (800) 84	13-8265
F) 7.	Transporter 2 Company Name	É	3.		C. State Trans		
					D. Transporte		
9. 1	Designated Facility Name and Site Address	1	0.		E. State Facili	ly's ID	
1	RUTGERS ORGANIUS CO	RP			F.F. 15 L. St.		
н	201 STRUBLE RD				F. Facility's Ph		
	VI STATE COLLEGE PA 16 11. Shipping Name	801		12 Cr	ntainers (8	14) 238-2424 13.	14.
	TT. Shipping Name			No.	Туре	Total Quantity	Unit Wt./Vol.
	a.			-			
	WASTE NON-RCRA SOLI CONTAMINATED WITH I	•	SOIL	01	тт	75.55	p
G	b.	NOSCITE LOS					
G E							
N E							sitt.
R	c.						
A T							
o							-
R	d.						
7				<u> </u>	H Handling C	odes for Material Listed Above	
G. A.	Additional Descriptions for Materials Listed Above				_		,
a	•	c.			a.S02 b.	c. d.	
,		d.			υ.	u.	
ь	•	u.					
	•					•	
15.	Special Handling Instructions and Additional Info	mation				····	
			1 2 War 2 10 To 1 X 1	wormen Med			
			EYMARS AS	<u>ي</u> 1916	II. Barriera es		Management and Company
16.	 GENERATOR'S CERTIFICATION: I hereby certification for transport. The management of the proper condition for transport. 						
	nted/Typed Name		Sissahura				Date
Prir	Med/Typed Name		Signature	7.		Month	1 1
T 17	Transporter 1 Acknowledgement of Receipt of Ma	toriale.		<u> </u>		<u> </u>	
R	nled/Typed Name	uciais	Signature				Date
A Prin	. ,					Month	Day Year
P 18.	Transporter 2 Acknowledgement of Receipt of Ma	terials	<u></u>		ge-	5 '-	Date
R	nted/Typed Name		Signature	<u>-</u>		Month	Day Year
E R	•		ļ <u>-</u>				
19.	Discrepancy Indication Space						J
F							
A							
C			•				
<u> </u>							
20.	Facility Owner or Operator; Certification of receipt	of the materials covered b	y this bill of lading except as noted in item 1	9.		F	
T		1. 5-1-					Date
Prin	nted/Typed Name		Signature			Month	Day Year
i							1 1



Pleas	e print or	туре						
	RI	LL OF LADING	•			1. Document N		2. Page 1
							61608D	of 1
	3. Gen		GERS ORGANICS (CORP	•	Site Address		
			STRUBLE RD			RT 26 S		
	4 Gen	STA	TE COLLEGE PA	16801		STATE C	OLLEGE PA 168	01
	5 Tran	erator's Phone (814) 238-2424 esporter 1 Company Name	6.			A. State Transp	orter's ID 7/1 2	W 7
			xrm			B. Transporter		
		IRONMENTAL PROD & SEP reporter 2 Company Name	8.	··········		C. State Transp		0-0400
						D. Transporter	2 Phone	
	9. Des	ignated Facility Name and Site Address	10.			E. State Facility	's ID	
		RUTGERS ORGANICS CO	RP					
		201 STRUBLE RD	- 			F. Facility's Pho	one	
	НМ	STATE COLLEGE PA 16	801				4) 238-2424	
		11. Shipping Name			1	ontainers	13. _ Total	14. Unit
					No.	Туре	Quantity	Wt./Vol.
	:	a. WASTE NON-RCRA SOLI CONTAMINATED WITH I		L	01	тт	32,000	р
GENE								40:
R A T O		с.			_		``	
R		d					,4,	
	G. Add	litional Descriptions for Materials Listed Above				H. Handling Co	des for Material Listed Above	. *
	a.	,	c.			a.S02	c.	
٦						, b.	d.	
	b. 		d.					
	16. GE	ENERATOR'S CERTIFICATION: I hereby certification in proper condition for transport. The management of the condition for transport.	y that the contents of this shipme					Date
	Printed	//Typed Name		Signature	- 1 - 7	/	Month	Day Year
	: .	der of the second	•					-
Ţ	17. Tra	nsporter 1 Acknowledgement of Receipt of Ma	terials	 				Date
TRANSPO	Printed	/Typed Name		Signature	7		Month	Day Year
S	_	<u> </u>	, etc.	****				
	18. Tra	nsporter 2 Acknowledgement of Receipt of Ma	terials					Date
R F R	Printed	/Typed Name		Signature			Month	Day Year
	19. Dis	crepancy Indication Space		·				
FACIL								
1	20. Fac	ility Owner or Operator; Certification of receipt	of the materials covered by this t	oill of lading except as noted in item 19	9.			
T Y			·	T 6:			11	Date
	Printed	/Typed Name		Signature		٠.	Month 	Day Year



Please print or type							
BILL OF LADING				Document	No.	2. Page	
					61608B	of	1
3. Generator's Name and Mailing Address RUT	GERS ORGANICS	CORP		Site Address			
201	STRUBLE RD			RT 26	South		
STA	TE COLLEGE PA	16801		STATE	COLLEGE PA 16	801	
4. Generator's Phone (814) 238-2424	·						
5. Transporter 1 Company Name	6.				porter's ID	J 17	. 11
ENVIRONMENTAL PROD & SEL	R OF VT. INC			B. Transporter	(000)	43-82	65
7. Transporter 2 Company Name	8.			C. State Trans	porter's ID		
				D. Transporter	2 Phone		
Designated Facility Name and Site Address	10.			E. State Facili	iy's ID		
RUTGERS ORGANICS CO	RP						_
201 STRUBLE RD HM STATE COLLEGE DA 16				F. Facility's Ph	ione		
ATATA COUNTER FA TO	801		,i		14) 238-2424		
11. Shipping Name			Ι.	ntainers	13. Total	1 0	14. Jnit
			No.	Туре	Quantity	Wi.	./Vol.
a.		_	1			1	
WASTE NON-RCRA SOLI		Ь	01	TT	22000	İ	p
CONTAMINATED WITH I	NSECTICIDE)		0,		<u> </u>		
G b.			1			Ï	
E							
E			ļ				
R C.							
A				1			
0							
R d.				ĺ		-	
			L	II Handles O	-d-s fee blad-dall lines disk-		
G. Additional Descriptions for Materials Listed Above				_	odes for Material Listed Abo	/e	
a.	c.			a.S02	c.		
	1			b.	d.		
b.	d.						
15. Special Handling Instructions and Additional Infor							
103 1941 (OA 1111 W	3/11-14	1-11 D T	•	•			
		y m m m					
16. GENERATOR'S CERTIFICATION: I hereby certif	ly that the contents of this shipme	ent are fully and accurately described	and are in	all	AND MICHAEL DESIGNATION	AND THE PARTY OF T	<u> </u>
respects in proper condition for transport. The ma	iterials described on this docume	ent are not subject to federal manifest	requiremen	ts.			
[]						Date	
Printed/Typed Name		Signature	e		Mon	h Day	Year
Keys Garha		Digitation) , (1	200
						Date	
T 17. Transporter 1 Acknowledgement of Receipt of Ma A Printed/Typed Name N		Signature			Mont		Year
N		Adec 191	1917 - 1919 1918 - 1919 - 1919 1919 - 1919 - 1919		for a	1.71	4 %
P 18. Transporter 2 Acknowledgement of Receipt of Ma R Printed/Typed Name	terials	· · · · · · · · · · · · · · · · · · ·		-		Date	· · ·
R T Printed/Typed Name		Signature			Mont		Year
ER							
19. Discrepancy Indication Space						L	
F							
A							
C							
1							
20. Facility Owner or Operator; Certification of receipt	of the materials covered by this t	oill of lading except as noted in item 19	Э.				
Ţ		•				Date	
Y Printed/Typed Name		Signature			Mont	h Day	Year
						1	



Plea	ise print or	type						0 D
	RI	LL OF LADING		4		Document	1	2. Page 1
	L	· · · · · · · · · · · · · · · · · · ·					61608C	of 1
	3. Gen	erator's Name and Mailing Address RUT	GERS ORGANICS	CORP		Site Address		
		201	STRUBLE RD			RT 26	SOUTH	
	1	" STA	TE COLLEGE PA	16801		STATE (COLLEGE PA 168	301
	4. Gen	erator's Phone (814) 238-2424						_ حطمون
		sporter 1 Company Name	6.			A. State Trans	sporter's ID 7/C07	
	ENV	IRONMENTAL PROD & SER	OF VT. INC			B. Transporte	1 Phone (800) 84	3-8265
		nsporter 2 Company Name	8.			C. State Trans	sporter's ID	
	}					D. Transporte	2 Phone	
	9. Des	ignated Facility Name and Site Address	10.		,	E. State Facili	ıy's ID	
	1	RUTGERS ORGANICS CO	RP					
		201 STRUBLE RD			-	F. Facility's Pr	none	
	нм	STATE COLLEGE PA 16	801			(8)	14) 238-2424	
		11. Shipping Name			12. Co	ntainers	э 13. Total	14. Unit
					No.	Туре	Quantity	Wt./Vol.
		a.				6		
		WASTE NON-RCRA SOLI	D, N.O.S. (SOI	Ĺ	01	тт	25. A	q p
	<u>.</u>	CONTAMINATED WITH I	NSECTICIDE)		•	1 .		
G		b						
E								40
E								
R		c,						ļ
A								1
0	-	d.						
R		d.						,
		*2 °						}
-		ta I B				H. Handling C	odes for Material Listed Above	 -
	I G Arte							
		ditional Descriptions for Materials Listed Above	C.			•	•	
	G. Add	intonal Descriptions for Materials Listed Above	c.			a. S02	c.	i
	a.	inional Descriptions for Materials Listed Above				•	•	;
		inional Descriptions for Materials Listed Above	c. d.			a. S02	c.	
	a.	inional Descriptions for Materials Listed Above				a. S02	c.	:
	a. b.	intional Descriptions for Materials Listed Above	d.	٠.		a. S02	c.	1
	a. b. 15. Sp.	ecial Handling Instructions and Additional Infor	d,	1 1 10 12 13 T = \$?' \ \ , ,	a.S02 b.	c.	
	a. b. 15. Sp.	ecial Handling Instructions and Additional Infor	d.			a.S02 b.	c.	
	a. b.	ecial Handling Instructions and Additional Inform	d,			a.S02 b.	c.	
	a. b.	ecial Handling Instructions and Additional Infor	d, mation	nent are fully and accurately desc	ribed and are in	a. S02 b.	c.	
	a. b.	ecial Handling Instructions and Additional Information (1997)	d, mation	nent are fully and accurately desc	ribed and are in	a. S02 b.	c.	
	a. b. 15. Sp. 16. GE res	ecial Handling Instructions and Additional Information (Information) (In	d, mation	ent are fully and accurately desc ent are not subject to federal man	ribed and are in	a. S02 b.	c. d.	Date
	a. b. 15. Sp. 16. GE res	ecial Handling Instructions and Additional Information (1974) (1975) (19	mation Y that the contents of this shipm terials described on this documents.	nent are fully and accurately desc	ribed and are in	a. S02 b.	C. d.	Date Day Year
	a. b. 15. Sp. (50) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	ecial Handling Instructions and Additional Information (Information) (In	mation y that the contents of this shipm terials described on this documents.	ent are fully and accurately desc ent are not subject to federal man	ribed and are in	a. S02 b.	c. d.	Date Day Year
TR	a. b. 15. Sp. 16. GE res Printed	ecial Handling Instructions and Additional Information (1997) (19	mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in	a. S02 b.	C. d.	Date Day Year Date
TR	a. b. 15. Sp. 16. GE res Printed	ecial Handling Instructions and Additional Information (Information) (In	mation y that the contents of this shipm terials described on this documents.	ent are fully and accurately desc ent are not subject to federal man	ribed and are in	a. S02 b.	C. d.	Date Day Year Date Day Year
TR	a. b. 15. Sp. 16. GE res Printed	ecial Handling Instructions and Additional Information (1997) (19	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in	a. S02 b.	C. d.	Date Day Year Date Day Year
TR	b. 15. Sp. 16. GE res Printed 17. Tra Printed	ecial Handling Instructions and Additional Information of the Communication of the Communicat	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in a nilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TR	b. 15. Sp. 16. GE res Printed 17. Tra Printed	ecial Handling Instructions and Additional Information (1997) (19	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in	a. S02 b.	C. d.	Date Day Year Date Day Year
	b. 15. Sp. 16. GE res Printed 17. Tra. Printed 18. Tra. Printed	ecial Handling Instructions and Additional Information of the Communication of the Communicat	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in a nilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TRANSPORTER	b. 15. Sp. 16. GE res Printed 17. Tra. Printed 18. Tra. Printed	ecial Handling Instructions and Additional Information (Information) (In	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in a nilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TRANSPORTER F	b. 15. Sp. 16. GE res Printed 17. Tra. Printed 18. Tra. Printed	ecial Handling Instructions and Additional Information (Information) (In	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in a nilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TRANSPORTER FAC	b. 15. Sp. 16. GE res Printed 17. Tra. Printed 18. Tra. Printed	ecial Handling Instructions and Additional Information (Information) (In	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in a nilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TRANSPORTER FACI	b. 15. Sp. 16. GE res Printed 17. Tra. Printed 18. Tra. Printed	ecial Handling Instructions and Additional Information (Information) (In	d, mation y that the contents of this shipm terials described on this documents.	nent are fully and accurately descent are not subject to federal man	ribed and are in a nilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TRANSPORTER FACIL	a. b. 15. Sp. 16. GE res Printed 17. Tra Printed 18. Tra: Printed	ecial Handling Instructions and Additional Information (Information) (In	d, mation y that the contents of this shipm terials described on this documents.	ent are fully and accurately descent are not subject to federal man. Signature Signature	ribed and are in anilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TRANSPORTER FACILIT	a. b. 15. Sp. 16. GE res Printed 17. Tra Printed 18. Tra: Printed	ecial Handling Instructions and Additional Information (Information) (In	d, mation y that the contents of this shipm terials described on this documents.	ent are fully and accurately descent are not subject to federal man. Signature Signature	ribed and are in anilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date
TRANSPORTER FACILI	a. b. 15. Sp. 16. GE res Printed 17. Tra Printed 19. Disc	ecial Handling Instructions and Additional Information (Information) (In	d, mation y that the contents of this shipm terials described on this documents.	ent are fully and accurately descent are not subject to federal man. Signature Signature	ribed and are in anilest requirement	a. S02 b.	C. d.	Date Day Year Date Day Year Date Day Year



Plea	isa print or type			Document N	<u>. </u>	2. Page 1
	BILL OF LADING				1	of 1
***		orna onglytna gonn		RUT 06	IOUOM	
	1	GERS ORGANICS CORP		ł	A-160H	
		STRUBLE RD		RT 26 S		
200		TE COLLEGE PA 16801		STATE C	OLLEGE PA 168	101
	4. Generator's Phone (814) 238-2424					
9	5. Transporter 1 Company Name	6.		A. State Transp	F 7 - 1487 1	
	ENVIRONMENTAL PROD & SER			B. Transporter 1	(000) 01	3-8265
	7. Transporter 2 Company Name	8.		C. State Transp		
				D. Transporter 2	Phone	
	Designated Facility Name and Site Address	10.		E. State Facility	s ID	
	RUTGERS ORGANICS CO	RP				
	201 STRUBLE RD	,		F. Facility's Pho	ne	
	HM STATE COLLEGE PA 16	801		(81		
2	11. Shipping Name			ontainers	13. Total	14. Unit
			No.	Туре	Quantity	Wt./Vol.
	WASTE NON-RCRA SOLI	•	01	тт	2,500	P
-	CONTAMINATED WITH I	NSECTICIDE)		 -		
G	J .			}		1
N						1
E	C.					
R	l "					
T]]
0						
R	d.]
	i i					
-				H Handling Cod	es for Material Listed Above	
	G. Additional Descriptions for Materials Listed Above			_		
	a.	c.		a.S02	c.	
		.2:		b.	d.	
	b.	d.				
	15. Special Handling Instructions and Additional Inform	nation .	· · · · · · · · · · · · · · · · · · ·	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
1	, <u> </u>	**	1 6 1 5 5 W			
	798 miles with 11 424	71. C.	÷			
	16. GENERATOR'S CERTIFICATION: I hereby certify	that the contents of this shipment are fully and	d accurately described and are in	ail		HISTORY PROCESSOR
	respects in proper condition for transport. The mat	erials described on this document are not subje	ect to federal manifest requiremen	nts.		
1						Date
	Printed/Typed Name	Signature.	1 min		Month	Day Year
	Read Miller		4 7 16.	the same of the sa	Co.	1 3 1 37
T R	17. Transporter 1 Acknowledgement of Receipt of Mat	erials				Date
R	Printed/Typed Name	Signature	1.000		Month	Day Year
N S	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			ter and the second of the seco	:-	
AZSPORT	18. Transporter 2 Acknowledgement of Receipt of Mat	erials				Date
R	Printed/Typed Name	Signature	 _		Month	Day Year
E	, , , , , , , , , , , , , , , , , , , ,					
H	19. Discrepancy Indication Space					
1-1						
F						
c						
[]						
	20 Escility Owner or Operator Contilionting of special					
		of the materials covered by this bill of lading ave				
T	20. Facility Owner or Operator, Certification of receipt (of the materials covered by this bill of lading exc	cept as noted in item 19.			Dale
Y	Printed/Typed Name	of the materials covered by this bill of lading exc	cept as noted in item 19.		Month	Dale Day Year



	ase print or type			1. Document No.		2. Page 1
	BILL OF LADING			RUT 060	04080	of 1
	3. Generator's Name and Mailing Address RUTGERS ORGANICS	CORP		Site Address		
	201 STRUBLE RD			RT 26 SO	UTH	
	ገ	16801		STATE CO	LLEGE PA 168	01
	4. Generator's Phone (81.4) 238-2424					
	5. Transporter 1 Company Name 6.			A. State Transpor	ter's ID 7 /Cの7	7 77)
	ENVIRONMENTAL PROD & SER OF VT. INC	·		B. Transporter 1 F	² hone (800) 84	3-8265
	7. Transporter 2 Company Name 8.			C. State Transpor	ter's ID	
				D. Transporter 2 F		
	Designated Facility Name and Site Address			E. State Facility's	ID	
	1 RUTGERS ORGANICS CORP				- 	
	201 STRUBLE RD			F. Facility's Phone		
_	HM STATE COLLEGE PA 16801 11. Shipping Name		12 Cc	(814) 238-2424 13.	14,
	Tr. Silipping Name		No.	Туре	Total Quantity	Unit Wt./Vol.
	a.					***************************************
	WASTE NON-RCRA SOLID, N.O.S. (SOI CONTAMINATED WITH INSECTICIDE)	L	01	T T	14,000	P
Ģ	b.					
E N						
Ε	(c.		 			+
R A	U.					
Ţ			į,			
O R	d.					
		į	ĺ	1		
-	G. Additional Descriptions for Materials Listed Above			H. Handling Codes	s for Material Listed Above	
	a, c,			a.S02	c.	
_	•			b.	d.	
	∫.b., d.					
_						
	15. Special Handling Instructions and Additional Information					
	\$ 700205 BE WAY	S. C. West & CAR				
	16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipm	nent are fully and accurately described	and are in	all	Rental Florid	
	respects in proper condition for transport. The materials described on this docum	ent are not subject to rederal manifest	requiremen	IIS.		
				_		Date
1	Printed/Typed Name	Signature	. 1		Month	Day Year
	Kens Radger	in	<u> - سيسا مسلم</u>		- 04	1 9 1 5
T R	17. Transporter 1 Acknowledgement of Receipt of Materials					Date
Ņ	Printed/Typed Name	Signature	Agendary Committee of the Committee of t	<i>></i>	Month	Day Year
TRANSPORTER		Carry and the second			rs.,	
R	18. Transporter 2 Acknowledgement of Receipt of Materials	1 - 1	. ».··			Date
Ė	Printed/Typed Name	Signature			Month	Day Year
-	19. Discrepancy Indication Space	<u> </u>				<u>L. J</u>
F						
A						
С						
I L						
1	20. Facility Owner or Operator; Certification of receipt of the materials covered by this	bill of lading except as noted in item 19	9.			
T Y	<u> </u>					Date
1	Printed/Typed Name	Signature			Month	Day Year
47	A. 1					l I

THE PERSON



lease print or t	уре					
BII	LL OF LADING			1. Document		2. Page 1
**					60408F	of 1
3. Gene	rator's Name and Mailing Address RUTGERS ORGAN			Site Address		
	201 STRUBLE RI			RT 26 8	SOUTH	f_{\pm}
	STATE COLLEGE	PA 16801		STATE (COLLEGE PA 16	801 🕟
	rator's Phone (814) 238-2424					· · · · · · · · · · · · · · · · · · ·
5. Trans	porter 1 Company Name	6.		A. State Trans	porter's ID 7/17/16	(VT)
ENVI	RONMENTAL PROD & SER OF VT. IN	d		B, Transporter	1 Phone (800) 8	43-8265
	sporter 2 Company Name	8.		C. State Trans	porter's ID	
				D. Transporter	2 Phone	
9. Desig	nated Facility Name and Sile Address	10.		E. State Facili	y's ID	
34	RUTGERS ORGANICS CORP			·		
	201 STRUBLE RD			F. Facility's Ph	one	
нМ	STATE COLLEGE PA 16801	1		(9	14) 238-2424	
—	11. Shipping Name		12. Co	ontainers	13,	14.
			No.	ј Туре	Total Quantity	Unit Wt./Vol.
	a,		+		_ -	+
	WASTE NON-RCRA SOLID, N.O.S. (SOIL	01	TT	77 2.1	P
	CONTAMINATED WITH INSECTICIDE)		01	1 1	22,000	P
3	b.				· · · · · · · · · · · · · · · · · · ·	
E]) })
Ž						
9	3.		<u> </u>			1
A-			1			
Τ			}] }		J
	 		 			
	,		1	1		
	·		1]])
C A d d d i	Earl Breaking for Manager I have been a			H. Handling Co	odes for Material Listed Abov	
	tional Descriptions for Materials Listed Above			_		
8.	с,			a.S02	C,	
				ь.	d.	
ъ.	d.					
					•	
				<u> </u>	· · · · · · · · · · · · · · · · · · ·	
15. Spec	cial Handling Instructions and Additional Information	7 14218	i.			, .
1,00	S PALL SAY & SA CONTRACTOR STATE OF SALES OF SAL	1 /11/10 3 13	•	S. F. Name		
			9 823			ASTRET FRANCE
resp	NERATOR'S CERTIFICATION: I hereby certify that the contents of thi nects in proper condition for transport. The materials described on this	s shipment are fully and accurately described document are not subject to federal manifest	l and are in I requiremei	ali nis.		
		,	~ /			
			1-1			Date
200 (m. r./ . / .)	Typed Name	Signature	~		Montl	1 1
0570	3HRY6-10-185	The second section is a second	- سيد منه دين		- 160 Tes	100
T 17. Tran	sporter 1 Acknowledgement of Receipt of Materials	1	arman amin'ny	<u></u>		Date
A Printed/	Typed Name	Signature	5.5		Month	Day Year
A Printed/	6/R/2 11/3			Language ter	· th	1 1 100
O 18. Trans	sporter 2 Acknowledgement of Receipt of Materials					Date
R Printed/	Typed Name	Signature			Month	
T Printed/ E R		{3				1
	repancy Indication Space					
j						
F						
A						
ĭ						
L·						
L	ity Owner or Operator; Certification of receipt of the materials covered	by this bill of lading except as noted in item	19.			
Τ Υ						Date
Printed/1	Typed Name	Signature			Month	Day Year
1		}				1 1



Plea	se print o	rlype				·····		
	В	LL OF LADING				1, Document No.		2. Page 1
~	L			**************************************		Site Address	0408G	of 1
	3. Ger		GERS ORGANICS	CORP			Theresal C	**
			STRUBLE RD			RT 26 SO		
	, , , , , ,	STA	TE COLLEGE PA	16801		STATE CO	LLEGE PA 168	01
		nerator's Phone (814) 238-2424 Insporter 1 Company Name	6.			A. State Transpor	ter's ID 12	يا 5 اسيد هي
-44	}					B. Transporter 1	* 1 1	
		IRONNENT'AL PROD & SEA	OF VT, INCL			C. State Transpo	(000) 93	3-6200
	7. 1181	isporter 2 Company Name	J.			D. Transporter 2		
	9 Dec	signated Facility Name and Site Address	10.			E. State Facility's		
	3. 563		N.D.					
		RUTGERS ORGANICS CO	np			F. Facility's Phon	e	
	нм	201 STRUBLE RD STATE COLLEGE PA 16	001			(814		
_	7 1101	11. Shipping Name	001		12. Co	ontainers	13.	14. Unit
					No.	Туре	Total Quantity	Unit Wt./Vol.
		a.						
	l	WASTE NON-RCRA SOLI	D. N.O.S. (SOI	L	01			,,
		CONTAMINATED WITH I			01	TT	16000	P
G		b.	,				· · · · · · · · · · · · · · · · · · ·	
GE								
N								
R		c.						
A			-					
T								
R		d.						1
								1
W								
	G. Add	ditional Descriptions for Materials Listed Above				-	es for Material Listed Above	
	a.		c.			a.S02	c.	
			,			b.	d.	
	b.		d.					
	15. Sn	social Handling Instructions and Additional Infor	mation			<u> </u>		
		Secial Handling Instructions and Additional Inter		1200 M 6 8		<u>.</u>		
		28174000	property of the second				#å	
					y en			
		NERATOR'S CERTIFICATION: I hereby certi						
	100	specis in proper condition for transport. The ma	densis described on this docum	eni are not subject to lederal mani	osi icquiromei	110.		
								Date
	Printed	d/Typed Name		Signature	Q. C	•	Month	Day Year
니					170			11 05
+ # < Z % 0		ansporter 1 Acknowledgement of Receipt of Ma	iterials					Date
A N		d/Typed Name		Signature	<u></u>		Month	Day Year
9		21 18 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			79 Ge	11 59
Q P T		insporter 2 Acknowledgement of Receipt of Ma	Nerials	T a	··			Date
E R	Printed	I/Typed Name		Signature			Month	Day Year
$\vdash \vdash$	19 Nie	crepancy Indication Space		<u></u>			 	! - -
	13. 115	огораноў пішевшон орвое						
FA								ļ
C								
L	20. Fac	cility Owner or Operator; Certification of receipt	of the materials covered by this	bill of lading except as noted in ite	m 19.			
۲			,	- -				Date
Y	Printed	I/Typed Name		Signature			Month	Day Year

SCALE TICKETS



September 24, 2008

Mr. Brent Peckis Panther Technologies, Inc. 220 Route 70 East, Ste. B Medford, NJ 08055

Rutgers Organics Project PC Scale Tickets / Invoices

Dear Brent:

Included with this letter are the scale tickets / invoices and residual waste manifests for the Rutgers Organics Project. The statement for this project will be sent to you in October.

Please contact me if you have any questions concerning this project.

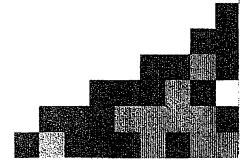
Sincerely,

Wayne Township Landfill

Phyllis J. Beury

Environmental Coordinator

XC: File



AR100474

ayne Towns	hip Landfill	PADEP Permit#	100955	Res	idual Waste	Manifest	$M\dot{o}$	26996
nerator Namek	LuxGers	DEGANICA)			- 14	·	···	17.99 1
nerator Location	3-501	ubli Koad ~	state	Call ege	PH .			
ntact Name(My Days		Phone#	814	777 2264	FAX# _ 8.14	1 338	1567
offle NA	(three-l	etter code)	Carrier J	<u>_ov</u>	(three	letter code)	Truck#	18
stomer/Charge To_	716	(three-digit number)	Origin	14.	(two-digit	number)		
ASTE		DESCRIPTIO		ΤE			PERC	ENTAGE
Olo Chini	neal contr	wounded de	L M		ĺ ·	<u></u>		100%
		<u> </u>						
					· · · · · · · · · · · · · · · · · · ·	<u> </u>		
	V.	·					<u> </u>	
A 1		· · · · · · · · · · · · · · · · · · ·	n"			,		
TUD3E	7431 V			:				
Dand	his Tenh H	bert	,					
		J.						
enerator's Certification:	I hereby certify that the	ebove named material(s) is	not hazardoue	waste as define	d by CFR Part 2	61 or any applic	able state ta, i	has been properly
este subject to the Landi	fill Disposal Restriction.	r transportation according to a I certify and warrant that the	ppiicable regu waste has bee	n treated in acco	ie waste is a treat irdance with the r	nent residue of a equirements of 4	previously rest CFR Part 26	ncied nazeradove 8 and is no longe
zardous as defined by	40 CFR Part 261.				,			
Day D		<u></u>						9/23/08
erator's Signature of Ce	artification// Title	10478	*	,	. (~7)	1745-2		Date 9/23/8
sporter: Driver Signatur	9 //	WH# and Annual E	xpiration Date		Phone	2) / 12		Date
Illeam 10) Ledle				<u> </u>	,	 =	
fill: Waste Inspector Sig	gnature	•	Olar		Accepted	10-10		Rejected
1		1944	000	750	<u> </u>	23/08		
phmaster Signature			License#		D	ate	1111	ne (AM - PM)
Fig. 1 The miles			THE PROPERTY OF	Te de similar de la constanta de	Maria Salarian en esta	omenden er	gravevere;	
ıyne Townşl	76	PADEP Permit#1		" A	dual Waste		No	# 2 26997
4	76	1-6477		" A	`			#2
ıyne Townsl	hip Landfill	PADEP Permit#1		" A	`			# ₂ 26997
erator Name Name Rator Location	hip Landfill	PADEP Permit#1		Resid	dual Waste			# ₂ 26997
erator Name Name Rator Location	hip Landfill	PADEP Permit#1	100955 Hate	Resid	dual Waste	Manifest 	Nº 238	#2 26997 15.717
erator Name Name Parator Location Parator Location Parator Name Name NA	hip Landfill	PADEP Permit#1 PAIMIS WHO KOOL	100955 Phone#_	Resid	dual Waste	Manifest FAX# 8/9 atter code)	Mô	#2 26997 15.717
erator Name Name Name Name Name Name Name Name	hip Landfill	PADEP Permit#1 PALMICS LUHG KOOL itter code)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№ - 23& Truck# —	#2 26997 15.717
erator Name Anderstor Location Lact Name Anders Location Lact Name Loc	hip Landfill Ly Davider (three-le	PADEP Permit#1 PAUMUS WHE KOAL itter code) (three-digit number)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№ - 23& Truck# —	#2 26997 (5.717 /567
yne Townsherator Name Name Act Name Act Name Act Name Name Name Name Name Name Name Name	hip Landfill Ly Davider (three-le	PADEP Permit#1 PAUMUS WHE KOUL tter code) (three-digit number)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№9 - 238 Truck# —	#2 26997 15.717 1567
erator Name Anderstor Location Lact Name Anders Location Lact Name Loc	hip Landfill Ly Davider (three-le	PADEP Permit#1 PAUMUS WHE KOUL tter code) (three-digit number)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№9 - 238 Truck# —	#2 26997 15.717 1567
erator Name Anderstor Location Lact Name Anders Location Lact Name Loc	hip Landfill Ly Davider (three-le	PADEP Permit#1 PAUMUS WHE KOUL tter code) (three-digit number)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№9 - 238 Truck# —	#2 26997 15.717 1567
erator Name Name Parator Location Lact Name Parator Location Lact Name Name Name Name Name Name Name Name	hip Landfill Ly Davider (three-le	PADEP Permit#1 PAUMUS WHE KOUL tter code) (three-digit number)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№9 - 238 Truck# —	#2 26997 15.717 1567
erator Name Name Parator Location Lact Name Parator Location Lact Name Name Name Name Name Name Name Name	hip Landfill Ly Davider (three-le	PADEP Permit#1 PAUMUS WHE KOUL tter code) (three-digit number)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№9 - 238 Truck# —	#2 26997 (5.717 /567
erator Name Anderstor Location Lact Name Anders Location Lact Name Loc	hip Landfill Ly Davider (three-le	PADEP Permit#1 PAUMUS WHE KOUL tter code) (three-digit number)	DO955 Phone#_ Carrier _ Origin _	Resident To The Second Telegraph To The Second Telegraph To The Second Telegraph Teleg	dual Waste) // //	Manifest FAX# 8/9 atter code)	№9 - 238 Truck# —	#2 26997 15.717 1567
erator Name Anerator Location Lact Name Andrew Charge To STE	hip Landfill Latylers (three-le File Cal Corre	PADEP Permit#1 PALMICS LUKE KOOL tter code) (three-digit number) DESCRIPTION MINIMATER JA	O0955 Phone#_ Carrier Origin OF-WAST	Resident Res	dual Waste) // //! 206 4 (three-leg) (two-digit in	Manifest EAX# 8/7 atter code) umber)	Nº 238 Truck#— 200	#2 26997 15.717 1567
erator Name erator Location eact Name le NA omer/Charge To SIE OCHUL	hip Landfill Light (three-le File Cal (Corist) Ar Jean H	PADEP Permit#1 YAMM'S WHE KOAL itter code) (three-digit number) DESCRIPTION AND ARCHARACTOR Shows named material(s) is n	DE WAST	Resident Residence	dual Waste	Manifest FAX# 8/5 atter code) umber)	PERCE 10	#2 26997 15.711 1567 ENTAGE
erator Name erator Location tact Name Sale NA comer/Charge To Cheffly	hip Landfill Landfill Landfill Landfill (three-le File Cal Corlet Cal Corlet Thereby certify that the d is proper condition for in Disposal Restriction.)	PADEP Permit#1 PALMICS LUKE KOOL tter code) (three-digit number) DESCRIPTION MINIMATER JA	Of hezardous	Resident Res	dual Waste	Manifest FAX# 8/9 atter code) umber)	PERCE JO Die state ta, he redeniste waste	# 2 26997 45.711 / 567 ENTAGE 0 %
erator Name erator Location tact Name Sale NA tomer/Charge To Cheffly	hip Landfill Landfill Landfill Landfill (three-le File Cal Corlet Cal Corlet Thereby certify that the d is proper condition for in Disposal Restriction.)	PADEP Permit#1 PADEP Permit#1 PAMILS Little Koad (three-digit number) DESCRIPTION ANNUATED SA	Of hezardous	Resident Res	dual Waste	Manifest FAX# 8/9 atter code) umber)	PERCE JO Die state ta, he redeniste waste	# 2 26997 45.711 / 567 ENTAGE 0 %
erator Name erator Location tact Name was le NA comer/Charge To ASTE Charge and packaged an ste subject to the Landing artifolytes defined by 10 cm.	hip Landfill Landfill Landfill Landfill Landfill (three-le File Cal Corlet Ar Jean Ar Jean Corlet C	PADEP Permit#1 PADEP Permit#1 PAMILS Little Koad (three-digit number) DESCRIPTION ANNUATED SA	Of hezardous	Resident Res	dual Waste	Manifest FAX# 8/9 atter code) umber)	DERGE 100 State to, he reviously restrictors Part 268	# 2 26997 15.711 1567 ENTAGE O %
erator Name herator Location tact Name homer/Charge To Charles Continue herator's Certification: I scribed and packaged an	hip Landfill Landfill Landfill (three-le Ho Cal (Corist) Ar Teal thereby certify that the dis proper condition for il Disposal Restriction. I of CFR Part 261.	PADEP Permit#1 YAMM'S WHE KOAL itter code) (three-digit number) DESCRIPTION AND A COMMENT AND	Of hezardous	Resident Res	dual Waste	Manifest FAX# 8/9 atter code) umber) 1 or any applical ent residue of a p	PERCE JO Die state ta, he redeniste waste	# 2 26997 15.711 1567 ENTAGE
erator Name erator Location tact Name was le NA comer/Charge To ASTE Charge and packaged an ste subject to the Landing artifolytes defined by 10 cm.	hip Landfill Landfill Landfill (three-le File Cal (three-le File Landfill Cal (three-le File Landfill Cal (three-le File Landfill Cal (three-le File Landfill L	PADEP Permit#1 PADEP Permit#1 PAMILS Litter code) (three-digit number) DESCRIPTION AND ARTHUR SA	O0955	Resident Res	dual Waste	Manifest FAX# 8/9 atter code) umber)	PERCE 10 state ta, hareviously restrictors Part 268	# 2 26997 15.711 1567 ENTAGE O % sis been properly cited hazaradous and is no longer 9/33/56
erator Name erator Location eact Name le NA omer/Charge To ASIE OMERITA OF Charge To ASIE OF Charge OF Cha	hip Landfill Light (three-le High (three-le	PADEP Permit#1 YAMM'S WHE KOAL itter code) (three-digit number) DESCRIPTION AND A COMMENT AND	O0955	Resident Res	dual Waste	Manifest FAX# 8/9 atter code) umber) 1 or any applical ent residue of a p	DERGE 100 State to, he reviously restrictors Part 268	# 2 26997 15.711 1567 ENTAGE O % sis been properly cited hazaradous and is no longer 9/33/56
yne Townsherator Name erator Name erator Location act Name le NA omer/Charge To SIE Charge Charge Charge Increase To Sie And Charge Increase To Sie And Charge Increase To Sie	hip Landfill Light (three-le High (three-le	PADEP Permit#1 PADEP Permit#1 PAMILS Litter code) (three-digit number) DESCRIPTION AND ARTHUR SA	O0955	Resident Res	dual Waste	Manifest FAX# 8/9 atter code) umber) 1 or any applical ent residue of a p	Day	# 2 26997 15.711 1567 INTAGE O % sis been properly cited hazaradous and is no longer 9/33/56

Generator's Certification: I hereby certify that the above named material(s) is not hazardous waste as defined by CFR Part 281 or any applicable state ia, has been properly described and packaged and is proper condition for transportation according to applicable regulations, AND, if the waste is a treatment residue of a previously restricted hazaradous waste subject to the Landfill Disposal Restriction. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 288 and is no longer hazardousyas defined by \$8 CFR Part 281.

Landfills Waste Inspector Signature

Weighmaster Signature

Weighmaster Signature

License # Date

Time (AM - PM)

AR100476

ayne Township Landfill	PADEP Permit#100955	Residual Waste Manifest	Nº 27000
enerator Name Nutulia	a Dragnics	·	17.811
enerator Location, Hrustle	hoad state with	al	
ontact Name (TRC) I VUIS	Phone#?	14 777 2264 FAX# 81	1 238 1567
ofile: N/T (three-letter	r code) Carrier	(three-letter code)	Truck#
ustomer/Charge To	(three-digit number) Origin	(two-digit number)	
NASTE	DESCRIPTION OF WASTE		PERCENTAGE
solo Chemical contro	minated sail	1	100 %
40 7431 A.	·		
- Painther Tech from	et		
enerator's Certification: I hereby certify that the abo escribed and packaged and is proper condition for train			
aste subject to the Landfill Disposal Restriction. I cor examples as defined by 40 CFR Part 281.	tify and warrant that the waste has been treat	ed in accordance with the requirements of 40	reviously restricted hazaradous CFR Part 268 and is no longer
da + + -			m/ 1
eratore Signature of Cartification / Title			X 1/2 5/0
RO COUST	1154 9/0	769-6977	Date / OR
sporter: Sinesture	WH# and Annual Expiration Date	Phone	Date / A
知: Waste Inspector Signature	<u>_</u>	Accepted	<u> 9/23/0</u>
1- R	11 130750	0/27/x 0	Rejected /
nmaster Signature	License #	Date	Time (AM - PM)
man man kan at the same and the same and same a	+		#6
Vayne Township Landfill	PADEP Permit#100955	Residual Waste Manifest	Nº 2725
	Dramics	Δ	15.20T
	HO PACA STOLE	Allege VA	
enerator Location Struu ontact Name Gary Day	Phone#_	14 777 200 FAX# 81	4 238-1567
rofile NA (three-left		(three-letter code)	Truck#
ustomer/Charge To 7/6	(three-digit number) Origin	/4 (two-digit number)	(100)or
WASTE			PERCENTAGE
	minated Soll		10000
		,	
N. J.			
1/13/31			
Danther Jean tros	ret		
Transport to the second of the			1
Generator's Certification: I hereby certify that the a	bove named material(s) is not hazardous wa	ste as defined by CFR Part 261 or any appli	cable state ta, has been prope
described and packaged and is proper condition for twaste subject to the Landfill Disposal Restriction.	ransportation according to applicable regulation	ns, AND, If the waste is a treatment residue of a sated in accordance with the requirements of	a previously restricted hazarado 40 CFR Part 268 and is no long
hazardous as defined by 40 CFR Part 281.	And y and wanted that the species had been the		10
Jany Her			X-9/23/
enerator's Signature of Certification, / Title			Date
Man Deller			7 - 1 - 1
mandan Omno Clanatura	W/H# prid Annual Evaluation Date	Phone	Dale
ransporter: Driver Signature	WH# and Annual Expiration Date	Phone	Dale
11-001		Accepted	Date Rejected
ransporter: Driver Signature andfill: Waste inspector Signature	WH# and Annual Expiration Date O(00)S	Accepted	<u> 2 A : A : </u>

Yaminundan Manna	nip Landfill	PADEP Permit#100	955 Re:	sidual Waste Manifest	No 27259
Senerator Name	BULLAND	Organics.			8.597
enerator Location	1 Strille		HILLY MA		111 5 1
ontact Name_ (500)	Errall to	Р	hone# 817 2	11226FAX# 81	14 238156
offle NA	(three-lette	er code) Ca	orrier Low	(three-letter code)	Truck#tt12
ustomer/Charge To	7110	,	igin 17	(two-digit number)	11UCK# —-11-1-2
WASTE			WASTE		PERCENTAGE
506 Char	rical Contain			and the second s	1/0%
11/1/2	III AV. SICALDIO	WWW. CALL TRADE			170 10
					ļ
			<u>^^</u>		
	· · · · · · · · · · · · · · · · · · ·			**************************************	<u> </u>
	\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	······································			
WF	Λ	- 			- 4
MULTINE	r Tooks Vibe	ot .			i
	· ·				
nazardetus et defined by 00 merator's Signature di Certions sono de la company de la c	ification / Title	ンリング WH# and Annual Expirati	ion Date	(<u>-74) 74(²-27/</u> Physe	29/33/0 Date 9/=3/07 Date
ndfill: Waste Inspector Sign	inturo.		*		
wasir inspector sign	Page 1	CXN	750	Accepted	Rejected
elghmester Signature		Licans		Poto Poto	Time (AM - PM)
Sentential desired	Belefi errekera disamundak Perengan	High Estatement of the State of	क्ष्याक्षरकामा स्वतिहरू को स्वति स्वति स्वति । स्वति स्वति स्व	e i garage e e e e e e e e e e e e e e e e e e	#7
				1	
Vayna Townsk	nin Landfill	PADEP Permit#100	955 Res	sidual Waste Manifest	Nº 27260
-	· ' ! } \ .	PADEP Permit#100	955 Res	sidual Waste Manifest	
enerator Name	Kutgera	orginies,	955 Res	sidual Waste Manifest	Nº 27260 9.73T
enerator Nameenerator Location	KINGGRA	. Organies Road State C	Wege PA	sidual Waste Manifest	
enerator Name enerator Location ontact Name	Kutgera	. Organies Road State C	955 Res	7.226 4FAX# 814	
enerator Name enerator Location ontact Name	MILTERIA THUMB Gra Dayis (three-left	Cramics Knad State (Uteal, VA Phone# 81427	7.226 4FAX# 819	
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To	Mutchy Thurse any Davis	Or GMICS V. A.C. State (per code) (three-digit number) Or	Utal, VA Phone# 814 77 arrier U7 L igin 14	7.226 4FAX# 814	9.73T 238 /567 Truck#_/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MILTGUM THUMB And Davis THO	er code) OBSIGNETION OF	Utal, VA Phone# 814 77 arrier U7 L igin 14	7.226 4FAX# 819	9.73 T 2.38 /567 Truck#/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MINICANA THUMB Any Dayis (three-left The	er code) OBSIGNETION OF	Utal, VA Phone# 814 77 arrier U7 L igin 14	7.226 4FAX# 819	9.73T 238 /567 Truck#_/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MILTGUM THUMB And Davis THO	er code) OBSIGNETION OF	Utal, VA Phone# 814 77 arrier U7 L igin 14	7.226 4FAX# 819	9.73 T 2.38 /567 Truck#/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MILTGUM THUMB And Davis THO	er code) OBSIGNETION OF	Utal, VA Phone# 814 77 arrier U7 L igin 14	7.22 tr VFAX# 8/9 (three-latter code) (two-digit number)	9.73 T 2.38 /567 Truck#/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MILTGUM THUMB And Davis THO	er code) OBSIGNETION OF	Utal, MA Phone# 814 27 parrier U7 L rigin 14 FWASTE	7.22 tr VFAX# 8/9 (three-latter code) (two-digit number)	9.73 T 2.38 /567 Truck#/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MINICANA THUMB AND DAVIS (three-left THE	er code) OBSIGNETION OF	Utal, MA Phone# 814 27 parrier U7 L rigin 14 FWASTE	7.22 tr VFAX# 8/9 (three-latter code) (two-digit number)	9.73 T 2.38 /567 Truck#/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MILTGUM THUMB And Davis THO	er code) OBSIGNETION OF	Utal, MA Phone# 814 27 parrier U7 L rigin 14 FWASTE	7.22 tr VFAX# 8/9 (three-latter code) (two-digit number)	9.73 T 2.38 /567 Truck#/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MILTGUM THUMB AND DAVIS THE (three-left THE	PARMICS VARMICS VARMICS Property of the code of the	Utal, MA Phone# 814 27 parrier U7 L rigin 14 FWASTE	7.22 tr VFAX# 8/9 (three-latter code) (two-digit number)	9.73 T 2.38 /567 Truck#/2
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE	MINICINA SHUME Gry Dayis (three-left FILE (U) CONTUNE	PARMICS VARMICS VARMICS Property of the code of the	Utal, MA Phone# 814 27 parrier U7 L rigin 14 FWASTE	7.22 tr VFAX# 8/9 (three-latter code) (two-digit number)	9.73 T 2.38 /567 Truck#/2
rofile NA ustomer/Charge To_ WASTE Chujill(MINICINA SHUME (three-left HIC (LT) LTUNI THIS THIS YOU THE PROPERTY CARTING THE SHOPE AND TH	er code) Ca (three-digit number) DESCRIPTION OF MATA ALL Dove named material(s) is not be	ULAL, MA Phone# 814 20 parrier	(three-latter code) (two-digit number) (two-digit number)	9.73 T 2.38 /56 7 Truck#
enerator Name enerator Location ontact Name ontact Name rofile NA ustomer/Charge To WASTE Charge Charge Generator's Certification: described and packaged ar waste subject to the Landfi	HILL CONTROL THE CONTROL (three-left HILL (th	Parcode) Carcode) Car	Phone# 814 27 parrier	(two-digit number) (two-digit number)	9.73 T 2 38 /567 Truck# /2 PERCENTAGE / 00 /6
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To Ch civil (HILL CONTROL THE CONTROL (three-left HILL (th	Parcode) Carcode) Car	Phone# 814 27 parrier	(three-latter code) (two-digit number) (two-digit number)	9.73 T 2 38 /567 Truck# /2 PERCENTAGE / 00 /6
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE Charge	hereby certify that the and is proper condition for till Disposal Restriction. I co of CFR Part 261.	Parcode) Carcode) Car	Phone# 814 27 parrier	(two-digit number) (two-digit number)	9.73 T 2 38 /567 Truck# /2 PERCENTAGE / 00 /6
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE Charge To Charge To waste subject to the Landinazardous as defined by the content of the con	THE CONTROL (three-left HIC (three-left HIC) I CONTROL (three-left HIC) I CONTROL (three-left HIC) I hereby certify that the and is proper condition for the lift Disposal Restriction. I control (three-left HIC) Control (three-left HIC) Tillication / Titte	Parcode) Carcode) Car	Phone# 814 27 parrier	(three-latter code) (two-digit number) med by CFR Part 261 or any application waste is a treatment residue of a cordance with the requirements of 40	9.73 T 2 38 /56 7 Truck#
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE On Onl Generator's Certification: described and packaged ar waste subject to the Landin hazardovs as defined by a enerator's Signature of Ger	THE CONTROL (three-lett HIC)	bove named material(s) is not hransportation according to applicate that waste	Phone# 814 20 20 20 20 20 20 20 20 20 20 20 20 20	(two-digit number) (two-digit number)	9.73 T 2 38 /56 7 Truck#
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE O Charge Generator's Certification: I described and packaged ar waste subject to the Landin hazardovs as defined by the	THE CONTROL (three-lett HIC)	Parcode) Carcode) Car	Phone# 814 20 20 20 20 20 20 20 20 20 20 20 20 20	(three-latter code) (two-digit number) med by CFR Part 261 or any application waste is a treatment residue of a cordance with the requirements of 40	9.73 T 2 38 /56 7 Truck#
enerator Name enerator Location ontact Name rofile NA ustomer/Charge To WASTE On Only Generator's Certification: I described and packaged ar waste subject to the Landin hazardous as defined by a enerator's Signature of Gen Land Manage Waste	hereby certify that the and is proper condition for the CFR Part 251.	bove named material(s) is not hransportation according to applicate that waste	Phone# 814 20 20 20 20 20 20 20 20 20 20 20 20 20	(three-latter code) (two-digit number) med by CFR Part 261 or any application waste is a treatment residue of a cordance with the requirements of 40	9.73 T 2 38 /56 7 Truck# / 2 PERCENTAGE / 00 / 6 sable state ta, has been properly previously restricted hazaradous of the control of th