



**BENNER TOWNSHIP PFAS INVESTIGATION
WORK PLAN
REQUISITION NUMBER GTAC7-4-106**

October 8, 2020

The Pennsylvania Department of Environmental Protection (PADEP) has requested that HDR Engineering, LLC (HDR) assist with determining the source and extent of per- and polyfluoroalkyl substances (PFASs) that were detected in potable wells at properties along High Tech Road in Benner Township during a groundwater investigation completed by the PADEP's Water Supply Program in 2019. The PADEP assigned the Scope of Work (SOW) and the Project Requisition to HDR on June 10 and July 21, 2020, respectively.

This Work Plan presents the SOW and Cost Estimate for HDR to complete due diligence activities that were discussed during the September 2, 2020 Site Scoping Meeting. HDR provided the PADEP with the draft and final Meeting Minutes on September 9 and 16, 2020, respectively.

PROJECT DESCRIPTION

During the summer of 2019, the PADEP's Bureau of Safe Drinking Water completed a groundwater sampling event for a public supply well and potable wells located at properties along High Tech Road in Benner Township, Pennsylvania (Site). For the purposes of this Work Plan, the term "Site" includes the following properties based on earlier investigative events completed by PADEP and PSU:

- State of the Art (SOTA) company located at 2470 High Tech Road in Benner Township
- Matreya, LLC located at 2178 High Tech Road in Benner Township
- Handy Delivery, Inc located at 2197 High Tech Road in Benner Township
- Nittany Express located at 2190 High Tech Road in Benner Township
- The University Park Airport (UPA) located at 2493 Fox Hill Road in Benner Township
- Vacant parcels along High Tech Road that are available for sale
- Properties in the vicinity of High Tech Road such as the Alexander Well Field

A public water supply well is located at SOTA property, a potable well is located at the Matreya, LLC property, and, a potable well is located at the Handy Delivery, Inc., property. The SOTA supply well was sampled by the Water Supply Program and the Handy Delivery and Matreya wells were sampled by the PADEP's Environmental Cleanup and Brownfields Program staff. All the wells were sampled for PFAS. The analysis indicated that PFAS was present at a concentration of 114 parts per trillion (ppt) for combined perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) in the SOTA well, 138.6 ppt in the Matreya, LLC (Matreya) potable well, and 112.1 ppt in the Handy Delivery well. All three of the combined PFOS and PFOA samples exceeded the Environmental Protection Agency (EPA) Health Advisory Level (HAL) of 70 ppt. A new potable well located at the Nittany Express was installed in November 2019. The Nittany Express property owner has not responded to several PADEP requests to access the potable well for sampling. The SOTA and Matreya properties have formerly or currently conducted

manufacturing activities. Possible manufacturing activities may have occurred or are occurring at other businesses located on High Tech Road.

The SOTA property is northwest of the UPA, which is owned and operated by the Penn State University (PSU). The airport reported use of aqueous film forming foam (AFFF) for firefighting testing as mandated by the Federal Aviation Administration (FAA). Upon request from PADEP, PSU initially sampled three monitoring wells in February and March 2020 that are identified as FedEx1 and APT-1, and Haller Farm South). The combined PFOS and PFOA results from all the wells were less than the EPA HAL. In February and March 2020, PSU also sampled several potable wells that are located on PSU property to the north and east of the airport and High Tech Road. The wells exhibited combined PFOS and PFOA concentrations less than the HAL.

HDR and PADEP conducted a scoping meeting in Benner Township on September 2, 2020. Representatives from PSU also attended the meeting. HDR prepared the draft and final Site Scoping Meeting Minutes which were submitted to PADEP on September 9 and September 16, 2020, respectively. PADEP provided a summary of the groundwater investigation completed by the Bureau of Safe Drinking Water, PADEP, and PSU. No surface soil samples/analysis or stream sample data for PFAS has been generated in the vicinity of the project area. PADEP would like to identify the source and extent of PFAS contamination in the area of High Tech Road and the airport by installing groundwater monitoring wells.

HDR expressed concerns with proceeding with the well installation event prior to performing due diligence activities. The due diligence phase was recommended in order to request and review additional information from the PADEP and PSU to gain a better understanding of the Site such as historical land use, the geology, potential PFAS sources, etc. This information will be useful in the event the installation of groundwater monitoring wells (or other field investigations such as soil sampling and/or stream sampling) is necessary. The items that are included in the due diligence phase are presented below in the Proposed Scope of Work.

PSU previously provided the PADEP with general historical information regarding property ownership for SOTA, Matreya (formerly Premetek, Inc.), and Handy Delivery. PADEP, HDR and PSU discussed the airport's use of AFFF for firefighting testing. PSU provided PADEP with an Aircraft Rescue and Fire Fighting (ARFF) System Testing Locations Map which included three (3) areas on the airport property where discharge of AFFF occurred. One area was located on grass on the eastern portion of the property, one area was located on the deicing pad which was collected in a 50,000 gallon underground storage tank for offsite disposal, and the third area was located on a grass area immediately to the south of the deicing pad. The type of AFFF used by airport is unknown.

PSU and PADEP continue to provide Site information to HDR. The following items have been provided, but were not available for discussion during the scoping meeting:

- PSU provided HDR and PADEP with an updated site map that included the results of two (2) additional groundwater sampling events that they completed in June and August 2020. Groundwater samples were collected from airport well GAT-1 and submitted for analysis of PFAS constituents. The well, which was not sampled during the February 2020 event, exhibited a combined PFOS and PFOA concentration of 73.0 ppt and 116.0 ppt in June and August 2020, respectively.
- The PADEP provided HDR with a summary of a 2018 inspection report from the Bureau of Safe Drinking Water for the SOTA property. The report indicated that SOTA agreed to

a settlement with the airport in which runoff from the airport was directed toward the SOTA property. The runoff was discharged from an airport parking lot, across Fox Hill Road, and into a sinkhole that was located on the SOTA property. The runoff reportedly impacted the SOTA's supply well with heavy turbidity. The runoff occurred from the same parking lot where the airport had set cars on fire to test AFFF nozzles as required by the FAA. This area of AFFF discharge was not designated on PSU's ARFF System Testing Locations Map.

- The PADEP provided HDR with the UPA Site Drainage Area Map (dated July 2011) that was prepared by PSU. HDR noted two (2) features on the map identified as Parking Pond (non-PSU) and Terminal Main Pond (non-PSU) which were in the vicinity of the Site and adjacent to the airport terminal parking lots. The Parking Pond discharged into the Terminal Main Pond which discharged via a storm drain, into a 16" corrugated metal pipe (CMP) under Fox Hill Road and to a National Pollutant Discharge Elimination System (NPDES) outfall identified as Outfall 11. The outfall discharged onto SOTA property. During the September 2, 2020 Site walk, significant modifications were observed and underway at the airport terminal and airport property. The former Terminal Main Pond, the storm drain, the Parking Pond and the guard rail along Fox Hill Road had been removed due to regrading and redesign of the terminal parking lot(s) and replaced with an embankment. The former entrance and exit to and from the airport terminal at the Fox Hill Road and High Tech Road intersection was also removed and replaced with an embankment. A section of macadam was repaved across both lanes of Fox Hill Road near the southwest corner of the SOTA property and near the former Outfall 11.
- HDR noted on the drainage map (and other maps provided by PSU) that the airport terminal and parking lots are labeled as Centre County Airport Authority (the Authority) and are not on PSU property. PSU responded to the PADEP that the Authority is responsible for the terminal building and parking area (not Penn State property) and the commercial flights. PSU is responsible for the rest of the airport operations (including fire-fighting services). According to PSU, they are providing updates regarding the PFAS investigation to the Authority.
- The PADEP provided HDR with general ownership information for the SOTA property, the Handy Delivery property, and the Matreya property. In addition, the PADEP provided a UPA water contour map from March 2001.

PROPOSED SCOPE OF WORK

HDR has prepared the Work Plan as discussed during the September 2, 2020 Site scoping meeting and based on the Next Steps that were provided in the Site Scoping Meeting Minutes and in the September 16, 2020 email from HDR to DEP. The list of proposed work for the Work Plan is provided below:

- Request and review an Environmental Database Report for the Site area
- Review of PADEP files/information for the project area
- Review of PSU files/information for the airport property (includes the Centre County Airport Authority property)
- Request geologic information from a PSU professor

- Review historical aerial photos, topo maps, and geological information for the project area
- Review GIS Mapping and tax parcel information from Centre County and PSU
- Review of public water supply well logs in the project area
- Review of former septic systems for properties in the Site area
- Review sampling logs from the Central Office Water Supply
- Investigate the location of the former sinkhole on the SOTA property
- Based on the information collected during the due diligence process listed in the above items, HDR will prepare a Due Diligence Summary Report with the findings and recommendations for further investigation

The Work Plan is presented sequentially by the PADEP work breakdown structures (WBS) task numbers that will be utilized to complete the work.

WBS-1000-Project Management

This task includes conducting miscellaneous project management duties such as invoice review, preparation of daily and monthly summaries of work activity, budgeting and general project management, PADEP project communications, small change order efforts, etc.

WBS-1010-Project Planning

This task includes the preparation of the draft and final minutes for the kickoff meeting, kickoff meeting teleconference, attending the Site scoping meeting, communication and correspondence with the PADEP and PSU representatives for review of available project information, and preparation of the Work Plan with pricing. HDR will prepare Job Hazard Analysis (JHA) forms for specific tasks associated with due diligence field assignments. HDR will prepare a Site-specific health and safety plan (HASP) for longer duration field assignments such as soil sampling or the installation of groundwater monitoring wells.

WBS-1020-File/Document Review

As discussed during the scoping meeting, the PADEP will assist HDR in providing information that's available in the PADEP files. PADEP will also assist in requesting information from the Borough of State College, Benner Township and PSU. The PADEP has already distributed some project information to HDR prior to and after the scoping meeting. In addition, HDR requested the following items, which were emailed to the PADEP on September 16, 2020:

- Drilling logs for the supply wells and residential wells in and near the Alexander Well Field from State College Borough
- Sampling logs, maps, field notes completed during the 2019 PFAS investigation by the Central Office Water Supply
- Information on former septic systems on High Tech Road from Benner Township
- The Bureau of Safe Drinking Water inspector's report for the SOTA property
- AFFF training information from PSU regarding potential discharge of AFFF on terminal parking lots
- Information from SOTA regarding the former sinkhole on SOTA property
- Location of the supply wells on SOTA property
- Geological information from PSU that may be available for the project area (for example, fracture trace analysis)

- Construction details, geo-tech logs, as-builts from PSU for when the airport was constructed and for the airport renovation
- PADEP files regarding information for the EPA and PADEP investigations (as indicated by eMap PA) that were completed in the project area
- Updated drainage and stormwater map of the PSU airport
- Point of contact information for SOTA, Matreya and Handy Delivery

In addition, HDR proposes to complete the following activities:

Environmental Database Report

HDR will utilize a research firm to provide a regulatory database search of the Site and surrounding properties that will include the American Society for Testing and Materials (ASTM)-prescribed federal, state, tribal, and local databases within the ASTM -prescribed search distances. Historical aerials and topo-maps will be requested as part of the search.

Review of GIS from Centre County and PSU

HDR will review available Geographic Information System (GIS) resources that are available online for Centre County. Other remote sensing methods such as light detection and ranging (LIDAR) of the Site area may be available from PSU.

Review of Historical Topo Maps and Aerial Images

HDR will review historical information for the Site, as applicable and available, according to the determination of the HDR environmental professional. Sources of historical information may include aerial-photography, USGS 7.5-minute topographic maps, fire-insurance maps, local street-directories, property tax files, building department records, recorded land title/deed records, and zoning/land-use records.

Site Recon Visit

HDR will perform a site reconnaissance of the Site. The site reconnaissance will be conducted in order to identify potential recognized environmental conditions located on the Site, or on surrounding properties with the potential to impact the Site. HDR will conduct interviews with the property owners and people with knowledge of the property and past use(s) of the property as appropriate.

WBS-2070-Report Preparation

Work performed for this task will include preparing monthly Project Status Report (PSRs) and a draft and final Due Diligence Summary Report. The Due Diligence Summary Report will include the findings from the environmental database search records, historical aerials and topo-maps, requested Site and geological information from the PADEP and PSU, background of historical property use, and the other items that are referenced in WBS-1020.

WBS-2200-Project Meetings

One conference call with HDR and PADEP will be arranged to discuss the results of the due diligence investigation presented in the draft Due Diligence Summary Report. A separate meeting at or near the Site (or at an off-Site location to be determined later) will be scheduled by HDR for representatives of the PADEP and PSU to discuss the results of the due diligence investigation and next steps for the PFAS investigation.

PROJECT STAFFING/MANAGEMENT

The project will be managed and staffed by HDR employees from the Mechanicsburg and Bethlehem, Pennsylvania offices. Key staff assigned to this project are listed below.

- **Project Oversight, Quality Assurance and Quality Control** - Tom McMonagle, P.G.
- **Project Manager** - Matthew Blanchard
- **Project Geologist** – Vincent Carbone
- **Scientist/Technician** - Will vary depending on availability, but HDR representatives will be mobilized from HDR's Mechanicsburg or Bethlehem offices.

KEY UNDERSTANDINGS

- PADEP to coordinate access agreements for HDR to enter the Site properties along High Tech Road in Benner Township.
- HDR assumes that file reviews can be completed electronically. If HDR is required to review extensive documentation on a site at the appropriate Federal or State agency, additional cost may be incurred.
- No invasive site work or quantitative chemical analysis are included in the Work Plan.
- At the time this Work Plan was prepared, it is unknown what information that HDR requested from PADEP, PSU, will be available for our review.

PROJECT REPORTING

Deliverables for this Work Plan will consist of the following:

- Daily Field Activity Reports
- Meeting Minutes (as necessary)
- Monthly PSRs
- Draft and Final Due Diligence Summary Report

HEALTH AND SAFETY PLAN

Due to the limited duration of the field work anticipated for the due diligence activities, HDR will prepare a JHA for each task assignment in lieu of a Health and Safety Plan. The JHA is used for HDR personnel to identify hazards, controls, and personal protective equipment (PPE) associated with the task. The JHA will include contact information for HDR project personnel and location for the nearest hospital. Tailgate safety briefings will be performed daily and all employees will have stop-work authority. If necessary, personnel will perform the work using Level D PPE including disposable gloves and a facemask. HDR will review any COVID-19 specific guidelines with each property owner that may apply to HDR personnel while working in the project area or PSU property.

COST ESTIMATE

The cost for the SOW detailed within this Work Plan is presented in the attached summary table and is summarized by PADEP WBS Tasks included above.

ATTACHMENTS

- Site Scoping Meeting Minutes from 9/2/2020



**Brenner Township
GTAC7-4-106
Site Scoping Meeting Minutes and Next Steps
Wednesday, September 2; 10:00 - 12:00 PM**

Site Meeting Info:

Buffalo Run Community Park pavilion in Benner Township

Attendees:

Cheryl Sinclair – PADEP Project Geologist

Andy Thornton – PADEP Project Officer

Tom McMonagle – HDR GTAC Program Manager

Matt Blanchard – HDR Project Manager

Vincent Carbone – HDR Project Geologist

Lysa Holland – PSU EH&S

Shelley McKeague – PSU Office of Physical Plant

1. Sign-In

2. Background

- a. The Pennsylvania Department of Environmental Protection (PADEP) provided an overview of the per- and polyfluoroalkyl substances (PFAS) groundwater investigation that was completed at properties along High Tech Road and the University Park Airport by the Public Water Supply Department in 2019 and the Penn State University (PSU) in 2020, respectively.
- b. Concentrations of PFAS > the EPA's health advisory level (HAL) were detected in groundwater samples collected from public and private water supply wells located along High Tech Road.

- c. In February 2020, PSU sampled groundwater from airport monitoring wells for PFAS. The groundwater samples exhibited PFAS concentrations that were < the High Tech Road water supply wells.
- d. The highest concentrations of PFAS were detected in a November 2019 water sample collected from a potable water supply well located at the Matreya LLC property at 2178 High Tech Road. According to an online search, Matreya is a lipid biochemical company. The former tenant at the property was Premetek, Inc., which conducted various manufacturing activities for computers and electronics.
- e. PSU collected a water sample from several potable wells to the east of the airport and analyzed for PFAS. The samples exhibited concentrations of PFAS that were non-detect or < the EPA HAL.
- f. The PADEP has contacted other tenants along High Tech Road to sample new and existing water supply wells. The Nittany Express has not responded to numerous PADEP requests for access to their property.
- g. There are some vacant parcels along High Tech Road that are available for sale.
- h. A new private water supply well was installed at the Nittany Express property on High Tech Road in November 2019.

3. Scope of Work

- a. PADEP would like to identify the source and the extent of PFAS contamination in the area of High Tech Road and the airport by installing several monitoring wells.

4. Discussion Items

- a. The installation of monitoring wells will be expensive. HDR recommended to delay the installation of monitoring wells until further due diligence can be completed on potential PFAS sources.
- b. HDR discussed that the topography and karst geology influences the depth to water and groundwater flow direction.

- c.** PSU completed a deed search of some the properties along High Tech Road and provided some historical information of the properties to the PADEP.
- d.** HDR, PSU and PADEP discussed the firefighting foam (FFF), which is required by the Federal Aviation Administration (FAA) and is stored in a building at the airport. The FFF, which has contained constituents in the group of chemicals referred to as PFAS, has been used on the airport property for training for a currently unknown period of time. Information provided at this point indicates that the potentially containing PFAS FFF was applied prior to 2006 to two (2) known grass areas located on the eastern and central portions of the airport property. Between 2006 and 2019, the FFF was applied to the concrete deicing pad which discharged into an underground concrete vessel with a capacity of 50,000 gallons where it was collected and disposed off-site. A system of drains and underground piping exists along the extent of the runway. Beginning in 2020, the FFF is discharged into a separate tank and removed offsite by a third party for disposal. Glycol is also now removed offsite by a third party and is no longer discharged to the sanitary sewer. PSU indicated that historical data including the type of FFF used at the airport is unavailable. FFF testing is completed at the airport twice per year in accordance with FAA regulations.
- e.** HDR requested if PSU was able to locate and share any geotechnical logs that may have been completed for the current construction activities at the airport or when the airport was constructed. PSU was not aware if this information is available.
- f.** No surface soil samples/analysis or stream samples for PFAS has been generated in the vicinity of the project area.
- g.** PSU was not aware if any fracture trace analyses (FTA) has been completed in the project area. PSU suggested a professor at PSU may have FTA information.
- h.** PADEP commented that the sampling method used by the Public Water Supply Department for the water supply wells at the properties

on High Tech Road is unknown. HDR discussed water supply and groundwater sampling equipment and materials could contain PFAS.

- i. HDR discussed that the existing monitoring wells on the airport property are oriented in a linear formation and are not ideal to determine groundwater flow direction.
- j. HDR, PADEP and PSU discussed the location of the water supply wells that are located to the west of the project area in Alexander's Well field.
- k. Data-sharing items for this project will be submitted to the attention of the PADEP.
- l. HDR and PADEP briefly reviewed the results of a search on the eMap PA website for former EPA and PADEP investigations. Several soil Act 2 closures were identified on the airport property.
- m. The following features were noted during the site tour along High Tech Road:
 - i. An abandoned concrete structure with PVC piping and electrical wiring located near the southwest corner of the State of the Art property.
 - ii. A placarded chemical shed was observed on the State of the Art property.

5. Next Steps

- HDR to develop a Work Plan/Cost Estimate (WPCE) to perform due diligence for the project area to evaluate any potential PFAS sources that may have been used and released. The due diligence would include:
 - i. A database search, review of historical aerial photographs and topo maps. HDR to review available airport and site information from PSU (FTAs, Geographic Information System (GIS) mapping, property histories, etc.), GIS from Center County, and project information available from the PADEP.
 - ii. HDR to review well logs for the public water supply wells located in the project area for descriptions of the geology and the depth that groundwater was encountered during drilling.

- iii. HDR to review former septic systems that existed for the properties along High Tech Road.
 - iv. HDR to review details and figures of subsurface piping used for the management of stormwater, sanitary sewer and containment system for FFF.
 - v. HDR to review the Public Water Supply Program's sampling logs for the public supply well and the private water supply wells along High Tech Road.
 - vi. HDR to investigate the location of the former sinkhole on the State of the Art property.
- Based on the information developed from the due diligence, HDR to develop a soil sampling plan for PFAS on the State of the Art property, the airport property and potentially other properties.

6. Action Items

- a. HDR to prepare draft Site Scoping meeting minutes and a list of next steps. (completed 9/9/20).
- b. PADEP to provide HDR with the historical files of the properties that were previously provided by PSU to the PADEP (completed 9/3/2020).
- c. PADEP to provide PSU with a copy of the GTAC-7 Benner Township Scope of Work.
- d. Upon PADEP review and approval of the Meeting Minutes, HDR will prepare a draft WPCE.
- e. PSU and PADEP will continue to update Benner Township on the status of the PFAS investigation (ongoing).
- f. HDR will request the PADEP to obtain the following information from PSU:
 - i. Details, figures, information for the airport's subsurface piping and collection system used for the management of stormwater, sanitary sewer and containment of discharged FFF. (completed on 9/3/2020)
 - ii. FTA information for the project area from PSU professor Dr. Parizek.

- iii. GIS mapping information.
- iv. Information on geotechnical boring logs, pre- and post-construction figures for the airport.
- g. PADEP will request well sampling logs, maps, etc, from the Public Water Supply Department completed during the 2019 well sampling event.
- h. PADEP will request Benner Township to provide information for former septic systems on High Tech Road.
- i. HDR to provide PADEP with the facility IDs for sites identified on the eMap PA (completed on 9/3/2020).
- j. PADEP will continue to request access to the private water supply well located on the Nittany Express property (ongoing).

7. Attachment

- a. Scoping Meeting sign-in sheet

**Work Plan Task Summary
Benner Township Project
Requisition Number GTAC7-4-106
October 8, 2020**

WBS	Current Task Authorization	Remaining Funding (as of 9/19/20)	Funding Request	New Total Authorization
Task 1000- Project Management	\$0.00	\$0.00	\$1,772.69	\$1,772.69
Task 1010- Project Planning	\$5,000.00	-\$3,127.00	\$2,807.46	\$10,934.46
Task 1020- File/Document Review	\$0.00	\$0.00	\$11,585.94	\$11,585.94
Task 2070- Procurement	\$0.00	\$0.00	\$7,785.38	\$7,785.38
Task 2200 - Report Preparation	\$0.00	\$0.00	\$6,181.68	\$6,181.68
Totals	\$ 5,000.00	\$ (3,127.00)	\$ 30,133.15	\$ 38,260.15

<p align="center">Work Plan Cost Estimate Benner Township Project Requisition Number GTAC7-4-106 October 8, 2020</p>						
WBS	Description	Classification	Hours / Quantity	Unit Rate	Cost Estimate	Comments
1000	Project Management				\$1,772.69	
1000.01						<i>Project management, staff scheduling, coordination, accounting and coordination with DEP, review of DARs, prep of PSRs (9/28/20 - 11/30/20)</i>
	Matthew Blanchard	Sr. Project Manager	10	\$121.94	\$1,219.40	10 weeks duration at 1.0 hr per week
	Tom McMonagle	Sr. Program Manager	3	\$184.43	\$553.29	QC of Project Management activities
1010	Project Planning				\$2,807.46	
1010.01						<i>Planning for project, meeting minutes, attending scoping meeting, work scope development and related tasks.</i>
	Matthew Blanchard	Sr. Project Manager	14	\$121.94	\$1,707.16	Work scope, cost estimate edits, submittal to DEP, and response/revisions.
	Tom McMonagle	Sr. Program Manager	3	\$184.43	\$553.29	QC review of draft WP/CE
	Vinny Carbone	Senior Geologist	2	\$176.83	\$353.66	QC Review of JHAs, review of aerial photos and topo maps
	Chelsea Tarbell	Environmental Scientist	2	\$56.06	\$112.12	Prep JHAs
	Connie Eskin	Administrative Assistant	1	\$81.23	\$81.23	Work Plan scope formatting
1020	File/Document Review				\$11,585.94	
1020.01						<i>Due Diligence Phase, review PADEP & PSU documents, site recon, and geological review of Site area</i>
	Tom McMonagle	Sr. Project Manager	4	\$121.94	\$487.76	Due diligence strategy development, geologic review of supply well logs
	Vinny Carbone	Senior Geologist	14	\$176.83	\$2,475.62	Review of geological information, geo-tech logs, Fracture-Trace Analysis from PSU
	Matthew Blanchard	Sr. Project Manager	24	\$121.94	\$2,926.56	Review and organization of requested PSU and PADEP files, discussions with PADEP, coordination with PADEP for access agreements, SOTA sinkhole review
	Katherine Markowitz	Risk Assessor/Envi Scientist	50	\$86.72	\$4,336.00	Site recon visit, historical and current land use review, order and review of envi database report, review of GIS info, calls with property owners
	Environmental Database Report	Estimated	1	\$1,000.00	\$1,000.00	Research firm to provide report of Site area
	Truck	C-3 (daily rate)	2	\$80.00	\$160.00	Site recon visit. Visit to PADEP office and PSU for files
	Shipping of Files	Estimated	1	\$50.00	\$50.00	Paper files (non digital) for PADEP/PSU
	Lodging	Estimated	1	\$150.00	\$150.00	Lodging for one night
2070	Report Preparation				\$7,785.38	
2070.01						<i>Prepare monthly PSR (1) and draft and final due diligence summary report</i>
	Matthew Blanchard	Sr. Project Manager	30	\$121.94	\$3,658.20	Prep due diligence summary report and PSR
	Tom McMonagle	Sr. Program Manager	2	\$184.73	\$369.46	QC review of due diligence summary report
	Vinny Carbone	Senior Geologist	8	\$176.83	\$1,414.64	Geological writeup for Site
	Katherine Markowitz	Environmental Scientist	20	\$56.06	\$1,121.20	Support of due diligence summary report, appendices and tables
	Chelsea Tarbell	Environmental Scientist	16	\$56.06	\$896.96	Graphics for maps and figures
	Connie Eskin	Administrative Assistant	4	\$81.23	\$324.92	Formatting and prep of due diligence summary report
2200	Project Meetings				\$6,181.68	
3080.01						<i>Teleconference with PADEP to discuss due diligence investigation and one site meeting in Benner Township with PADEP and PSU</i>
	Matthew Blanchard	Sr. Project Manager	16	\$121.94	\$1,951.04	Attend teleconference call. Attend site meeting in Benner Twp. Prep of meeting minutes. Development of site strategy for next steps
	Vinny Carbone	Senior Geologist	8	\$176.83	\$1,414.64	Attend site meeting in Benner Twp
	Tom McMonagle	Sr. Program Manager	12	\$184.73	\$2,216.76	Attend teleconference call. Attend site meeting in Benner Twp. Development of site strategy for next steps
	Chelsea Tarbell	Environmental Scientist	4	\$56.06	\$224.24	Prep of maps and figures for the meeting
	Personal mileage	Estimated	3	\$125.00	\$375.00	Three personal vehicles for site meeting
				Total	\$30,133.15	